

Identification of Project Activities and Environmental Effects

Identify all activities of the project under screening and their potential adverse environmental effects.

Project Activities

(check all the items appropriate to this project)

- access road
 - winter
 - construction
 - abandonment/removal
 - modification e.g., widening
- automobile, aircraft or vessel movement
 - plane
 - ATVs
 - boats
- blasting
- burning
- burying
- channelling
- construction
 - building
 - shed/warehouse
 - landing strip
- cut and fill
- removal of vegetation
- dams and impoundments
 - construction
 - abandonment/removal
 - modification
- ditch construction
- drainage alteration
- drilling other than geoscientific
- ecological surveys
- excavation
- explosive storage
- fuel storage
- garbage
 - disposal of hazardous waste
 - disposal of sewage or grey water
 - disposal of solid waste
- geoscientific sampling
 - trenching
 - diamond drill
 - borehole core sampling
 - bulk soil sampling
- quarry
- hydrological testing
- river/stream/lake crossing/bridging
- site restoration
 - fertilization
 - grubbing
 - planting/seeding
 - scarification
 - spraying
 - recontouring
- soil testing
- topsoil, overburden or soil
 - fill
 - disposal
 - removal
 - storage
- tunnelling/underground
- other, explain camp
- possibility for accidents or malfunctions. Describe.

effects of environment on project (e.g., flooding).
Describe.

Project Effects

(check all the items appropriate to this project)

Directly-related Socio-Economic & Cultural Effects

- impact to hunting / trapping / fishing
- impact on: women
 - men
 - children
 - elders
- impact to traditional use or traditional use area
- impact to outfitters
- impact on recreational use
- impact on family structure
- impact to community health
- change in community economics
- change in community housing or infrastructure
- impact to industry
- change in regional transportation
- impact to archaeological or cultural landmarks
- impact on beauty of the landscape
- other, explain _____

Biophysical Environment Effects

- deposit into surface or ground water
- deposit to marine environment
- change in surface or ground water flow
- change in water temperature
- change in drainage pattern
- change in air quality
- change in air flow
- micro-climate change
- ice fog
- change in ambient noise level
- deposit onto ground surface
- change in slope stability
- change in soil structure
- alteration of permafrost regime
- destabilization/erosion
- soil compaction
- change in access to renewable resources
- depletion of non-renewable resource
- removal of rare/endangered plant species
- introduction of species
- toxin/heavy metal accumulation
- removal of rare/endangered wildlife species
- change in wildlife health
- impact to large mammals
- impact to small mammals
- impact to fish
- impact to birds
- impact to other wildlife
- impact in a calving, nesting, staging or spawning area
- removal of wildlife buffer zone
- change in wildlife habitat/ecosystem
- other, explain _____

Describe biophysical and socio-economic and cultural effects identified from check-list.

Environmental Effect	Describe
1.4, 5	Increase use of Renewable Resources may have minimal impact on fishing and hunting in area.
15	Boat fuel could discharge into sea, as well as plane fuel.
24	Increase noise level due to motorized vehicles + number of people
25	Sewage & Greywater may have an impact if not properly managed.

9. Cumulative Effects: Identification of Other Resources Used in the Area. Identify past, current and future (pending applications) physical works and activities in the area (for the proponent, other proponents and nearby communities) and their potential adverse environmental effects.

Other Resource Uses

(check all the items appropriate to this project)

harvesting

- marine mammals
- land mammals
- fur bearers
- birds
- shellfish
- plants
- berries
- fish

mining

- exploration
- open pits
- underground
- off-shore

mineral processing

industry _____ (type)

quarries

- carving stone
- aggregate

transportation/communications

- airport / landing strip
- roads/access routes
- shipping
- channels/canal
- telephone lines, satellite dishes, cables
- beacons

waste disposal (solid, liquid or gas?)

energy project

- hydro
- pipeline
- transmission line

other water licenses, permits, leases

lands

- Inuit owned
 - surface rights
 - sub-surface rights

Crown

Commissioner's

Marine Areas

other private lands held under tenure

heritage sites or archaeological sites

recreation (eg. cabins, tent frames)

tourism

municipal (construction)

- commercial
- built structures
- infrastructure

agriculture

forestry

other, explain _____

Effects from Other Resource Uses

(check all the items appropriate to the scope of this project)

Directly-related Socio-Economic & Cultural Effects:

1. impact to hunting / trapping / fishing
2. impact on: women
 - men
 - children
 - elders
3. impact to traditional use or traditional use area
4. impact to outfitters
5. impact on recreational use
6. impact on family structure
7. impact to community health
8. change in community economics
9. change in community housing or infrastructure
10. impact to industry
11. change in regional transportation
12. impact to archaeological or cultural landmarks
13. impact on beauty of the landscape
14. other, explain _____

Biophysical Environment Effects

15. deposit into surface or ground water
16. deposit to marine environment
17. change in surface or ground water flow
18. change in water temperature
19. change in drainage pattern
20. change in air quality
21. change in air flow
22. micro-climate change
23. ice fog
24. change in ambient noise level
25. deposit onto ground surface
26. change in slope stability
27. change in soil structure
28. alteration of permafrost regime
29. destabilization/erosion
30. soil compaction
31. change in access to renewable resources
32. depletion of non-renewable resource
33. removal of rare/endangered plant species
34. introduction of species
35. toxin/heavy metal accumulation
36. removal of rare/endangered wildlife species
37. change in wildlife health
38. impact to large mammals
39. impact to small mammals
40. impact to fish
41. impact to birds
42. impact to other wildlife
43. impact in a calving, nesting, staging or spawning area
44. removal of wildlife buffer zone
45. change in wildlife habitat/ecosystem
46. other _____

10. Cumulative Environmental Effects

Based on a comparison of effects identified in #8 and #9.

Matching Number(s)

Description of Cumulative Environmental Effects

1100

No Will the project make large demands on non-renewable energy sources?

10 Will the project encourage further developments within the current project or other developments (other similar projects, energy development, generation, petroleum development and extraction, the building of additional roads)?

10 Will the project encourage a “boom-bust” economy over an economy of permanence?

No Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?

No Will the project have an effect on the water quality of the watershed?

Will the project have a significant effect on existing land uses?

11. Mitigation Measures

For each environmental effect identified in #8, #9 and #10, describe the required mitigation measures.

Number(s)
(as identified
in #8, #9 & #10)

Description of Mitigation Measures

See Decision (Screening)

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12. Significance

After taking into account the mitigation measures identified in #11, are any of the residual, adverse environmental effects significant?

Yes No

If yes, identify which one(s) and proceed to #13; if no proceed to # 14.

Number(s) _____

13. Likelihood of Occurrence

Of the significant, residual, adverse environmental effects identified in #12, are any likely to occur?

Yes No

Number(s) _____

14. Information Sources

What sources of information were used in the screening process?

local knowledge
 traditional ecological knowledge
 land use plans (and draft land use plans)
 authorizing agencies' data
 departmental or agency opinions
 maps
 photos
 reports (scientific, economic, social, or anthropological, archival or historical information)
 Nunavut Environmental Database (NED)
 personal communications
 Project Registry (NPC)
 previous similar projects
 service organizations
 media monitoring
 experts
 other _____

For information sources identified above, provide contact person and/or information location (for future follow-up): _____

15. Staff Recommendations

Staff Recommendations: (include rationale)

Prepared By: Charles Screever Date: October 14, 1998
(yyyy-mm-dd)**16. NIRB'S Principles**

- The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.
- The project may have significant adverse socio-economic effects on northerners.
- The project will cause significant public concern.
- The project involves technological innovations for which the effects are unknown.
- The project **does not** have significant effects or concerns.

17. Indication to the Minister (12.4.4)

N.B. Transfer this information to Box 1: "EA Indication" and "Date of Indication".

- a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;
- b) the proposal requires review under Part 5 or 6; NIRB shall identify particular issues or concerns which should be considered in such a review;
- c) the proposal is insufficiently developed to permit proper screening, and should be returned to the proponent for clarification; or
- d) the potential adverse impacts of the proposal are so unacceptable that it should be modified or abandoned.

Oct-27-99 07:52A Larry Aknavigak
1999-Oct-27 09:16am From-NUNAVUT IMPACT REVIEW BOARD403-83-2804 P-02
+8679832594 T-340 P 003/003 F-556

12

18. Terms and Conditions

If the determination is 12.4.4 (a), NIRB's terms and conditions include those listed in the Screening Decision Report.

Specific Terms and Conditions to note include:

19. AuthorizationApproved By: S. L. K.

(NIRB Decision Maker)

Date: 99-10-27

(yyyy-mm-dd)

20. Follow-up / Monitoring

Minister's Determination

Action? Minister agreed with NIRB's indication.

Action? Minister varied NIRB's indication.

Action? Minister rejected NIRB's indication

If applicable, Is a follow-up/monitoring program required? If yes, give details.

Has screening report information been added to NIRB's GIS/Calyx system?

29-05-93 13:14 FROM-NUNAVUT IMPACT REVIEW BOARD

86198338:3

T-348 P.05/40 F-458

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COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Fishing & Hunting Index of Encelso Lake

Proponent: John G. and Lynn Young

Location: Enrada Poly Super Anneal D NIRB#: 99TNU042

Comments Due By: July 19, 1999

Indicate your concerns about the project proposal below:

- no concerns
- water quality
- terrain
- air quality
- wildlife and their habitat
- marine mammals and their habitat
- birds and their habitat
- fish and their habitat
- heritage resources in area
- traditional uses of land
- Inuit harvesting activities
- community involvement and consultation
- local development in the area
- tourism in the area
- human health issues
- other: human wastes
and garbage

Please describe the concerns indicated above:

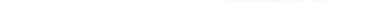
In the event of Lodge closing, we (the Arviat HTO) would like to see the garbage disposed elsewhere, maybe Churchill, Manitoba?

Not to the community of Arviat.

Do you have any suggestions or recommendations for this application?

Use barbless hooks for catch and release fishing.

Do you support the project proposal? YES NO
Any additional comments?

Name of person commenting: MARK KALLUAK of ARVIAT, NT
Position: PRESIDENT Organisation: ARVIAT NIO
Signature:  Date: JULY 15/99

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COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Fishing & Hunting Lodge at Ennadai Lake
 Proponent: John Cawker & Tom Young
 Location: Ennadai Lake (near Arviat) NIRB#: 99TN042
 Comments Due By: July 19, 1999

Indicate your concerns about the project proposal below:

no concerns traditional uses of land
 water quality Inuit harvesting activities
 terrain community involvement and consultation
 air quality local development in the area
 wildlife and their habitat tourism in the area
 marine mammals and their habitat human health issues
 birds and their habitat

Other: fish and their habitat heritage resources in area

Please describe the concerns indicated above:

Please see attached

Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES NO

Any additional comments?

Name of person commenting: Sustainable Development incorporates a team approach when commenting on NIRB screenings and Reviews. No one person comments for the Department.

Position: _____ Organisation: Sustainable Development

Signature: Chris Nichols Date: July 14, 1999

FAX NO. 86. 45 2321

30-06-99 11:44 From: NUNAVUT IMPACT REVIEW BOARD

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Fishing & Hunting Lodge at Emmanuel Lake

Proponent: Tom Gandy, Tom Gandy

Location: Emasari Ind (near Aman), NIRB#: 99TNO42

Comments Due By: July 19, 1999

Indicate your concerns about the project proposal below:

<input checked="" type="checkbox"/> no concerns	<input type="checkbox"/> traditional uses of land
<input type="checkbox"/> water quality	<input type="checkbox"/> Inuit harvesting activities
<input type="checkbox"/> terrain	<input type="checkbox"/> community involvement and consultation
<input type="checkbox"/> air quality	<input type="checkbox"/> local development in the area
<input type="checkbox"/> wildlife and their habitat	<input type="checkbox"/> tourism in the area
<input type="checkbox"/> marine mammals and their habitat	<input type="checkbox"/> human health issues
<input type="checkbox"/> birds and their habitat	<input type="checkbox"/> Other: _____
<input type="checkbox"/> fish and their habitat	
<input type="checkbox"/> heritage resources in area	

Please describe the concerns indicated above:

Outside Municipal Boundary.

Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES NO
Any additional comments?

Name of person commenting: Robert Chapman of CFT
Position: Community Pioneer Organisation: Government of Nunavut
Signature: Robert Chapman Date: July 6, 1999

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**Sustainable Development Comments
NIRB 99TN042
Fishing and Hunting Lodge on Ennadai Lake**

General Comments

It might be necessary for the Water Board to determine some guidelines for the submission of proposals in order to standardize submissions. The Director for Environmental Protection has been receiving proposals of various types and many are extremely poor submissions. This particular submission doesn't even have page numbers, making it very difficult to comment/review by page numbers.

It is important that see Land Use Guidelines being referred to in the application.

This Document has no spill contingency plans.

Water supply

- What does sufficient height to service the lodge mean? It is necessary to outline an approximation of the volume of water needed for the operation.
- Is there a necessary permit to take water? A permit should be issued for the operation to take water for commercial/domestic uses.

Grey water and sewage disposal

- This section is very deficient.
- Where will the septic pits be located in relation to the existing water body?
- Is the lake down slope from the septic systems? If yes what precautions are being taken to prevent effluent from entering this existing water body?
- What precautions will be taken to ensure protection of the Lake and the River (at the camps)?
- Will these pits be re-used year after year? If so what precautions will be taken to ensure that they are not a safety/animal hazard during the months when not in use?
- Grey water should be adequately treated before the operation is given clearance or released from responsibilities in the area.
- All latrine must be treated from time to time for aesthetic purposes.
- All latrine pits must be limed, properly covered, and reclaimed upon shutdown.
- It is necessary to submit an outline a drawing of the pits with method of protection for use during the months when not in use.

Garbage Disposal

- The proposal indicated methods of incinerating and recycling will be used according to local regulations. It is very necessary to outline in detail all of the methods to be utilized.
- The word incineration was utilized; what does this mean? Are there plans for moving an incinerator on site? If so what are the specifications? **REMEMBER OPEN BURNING IS NOT INCINERATION !!**
- It is necessary to develop a Waste Management Plan for all wastes generated as a result of the operation. This should be resubmitted.

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Hazardous Materials, Fuels, etc.

- It is necessary to develop a Spill Contingency Plan for the development.
- A list of all hazardous materials should be sent to Environmental Protection. The list should include why the material is required and how it will be removed after the site is closed.
- All necessary permits must be obtained before any hazardous materials are transported to the site.
- All empty containers must be removed from the site and dealt with in accordance of existing Nunavut Guidelines (Former GNWT). Any hazardous materials that are left over after the operation is completed must be removed and addressed according to existing guidelines.
- All fuel drums should be stored in an area that is appropriately designed for that purpose. The storage area should be lined and bermed. Any spillage must be reported to the regulatory authority and must be cleaned-up immediately to the satisfaction of the regulatory authority.
- Any spill of any contaminant must be reported to the Spill Line.
- Contaminated soil as a result of fuel spillage must be properly treated before leaving the site.
- All Barrels (empty, partially full, or full) must be removed from the site before the site is abandoned.
- No Barrels are to be buried in the landfill area.
- All fuel caches must be removed and the site totally reclaimed after use.
- Adequate protection from freezing should be installed in all fuel systems in order to minimize or eliminate accidents as a result of cold effects.

Equipment, vehicles, skidoos, etc.

- Any equipment on site must be properly utilized.
- All parts (old or otherwise) must be stored at one location and must be removed and taken away when work is completed.
- No malfunctioning parts, old skidoos, old vehicles, etc. are to be buried in the landfill site. All old machinery (non-functional) must be removed from the site and taken away.

Wildlife and their Habitat

- There is no Plan attached to this screening request by the proponent detailing how they will deal with Human/wildlife conflicts. A Plan needs to be developed and submitted and approved prior to approval being given to the project.
- **This project was not reviewed as a hunting venture.** No hunting should be associated with this project unless the proponent applies for and receives the proper hunting permits. In fact, if this project does seek approval to become a hunting facility it will be necessary to review the impacts of this operation.

Heritage Resources

- All temporary and permanent Camp facilities should not be visually or otherwise obtrusive, be properly maintained, and compatible with conservation of natural and cultural heritage resources, any artifacts found along the river must not be removed.

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Tourism in Area

- This proposed project is located within the management zone of the Kazan River – recognized as a Canadian Heritage River. The Kazan Heritage River Management Plan encourages recreational use of the River and its compatibility with conservation of heritage resources. Its status as a Canadian heritage River necessarily requires any recreational development to meet higher standards of development, maintenance, and monitoring to ensure it continues to meet the integrity values for which it was nominated.
- The Management Plan proposed Territorial Parks along the Kazan, and for the development of park facilities in the Ennadai Lake area through a community consultation exercise, and as identified in 1990 the Kazan Heritage River Management Plan. This proposed development should not impact on park development.

Community Involvement and Consultation

- Locations for both permanent sites and temporary camps must have approvals and support of the community.

Local Development in the Area

- This application if approved must not negatively impact other land uses in the region. The applicant must understand that this region is open for mineral exploration and potential mine development. Impacts by other land uses on this business will be mitigated to the extent practical, but this business must not preclude or restrict other land uses in this region.

Other

- The site chosen for the temporary tent camp should be confirmed. Future consideration of establishing a permanent camp on tent camp sites should be reviewed at such time as plans become confirmed.
- There is no Abandonment and Restoration (A/R) Plan attached to this project description. An A/R Plan should be developed and submitted prior to approval of this project.



Box 358
Iqaluit, NT.
XOA OHO
Ph: (867) 979-8007
Fax: (867) 979-8039

July 19, 1999

Nigel Qaumariaq
Environmental Officer
Nunavut Impact Review Board
P.O. Box 2379
Cambridge Bay, NT
XOE 0C0

RE: Fishing & Hunting Lodge at Ennadai Lake
NIRB: 99TN042
Letter of Advice

The Department of Fisheries and Oceans, Habitat Management, (DFO-HM) has reviewed the information submitted with the above application. DFO-HM's assessment takes into consideration fish and fish habitat related concerns only.

On the basis of the information provided, DFO has concluded that there will be no significant adverse effects on fish or fish habitat resulting from this project, if the project is conducted as described and with the following conditions:

1. The deposition of deleterious substances into water bodies frequented by fish is prohibited under Section 36 of the Fisheries Act unless authorized by regulation. The proponent shall, therefore, ensure that any chemicals, fuel or wastes associated with the proposed project do not enter any such waters.
- DFO recommends that all sumps, wastes, sewage containment's and fuel caches be located a minimum of 30 metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter a waterway.

- All spills of oil, fuel or other deleterious materials shall be reported immediately to the 24-hour Spill Line at (867) 920-8130.

General Comments

DFO-HM recommends the Northern Remote Site Protocols be consulted when dealing with the grey water and sewage disposal. The business proposal indicates sumps for grey water and sewage will be used in every scenario. This totals 8 septic pits! In the spirit of the Remote Site Protocols the proponents may want to consider more environmentally sound practices for their waste management.

The business proposal identifies incineration for the method of garbage disposal and "...recycling will be used according to local regulations." Could the proponent be more specific and include a copy of the "local regulations".

DFO-HM recommends that non-biodegradable material be flown out at every opportunity rather than storing it on site until the close of the season as outlined in the business proposal. This will decrease the risk of non-biodegradable garbage being left on site due to time constraints after the lodge closes.

Any changes to the proposed operation that may result in any impact on fish or fish habitat must be reported to the Department of Fisheries & Oceans, Iqaluit office before such changes are implemented.

Please note that none of the foregoing should be taken as authorization of the undertaking in accordance with the Fisheries Act or any other legislation.

If you have any questions or comments with respect to the above, please contact me.

Regards,



Margaret Keast

Habitat Management Biologist, Nunavut Area

cc. Gary Weber (Area Manager, Nunavut Area)

dd. Winston Fillatre (Conservation & Protection Field Supervisor, Nunavut Area)



Northwest Territories Education, Culture and Employment

201 23

July 20, 1999

Deputy Minister
Department of Culture, Language, Elders and Youth
Government of Nunavut
Bag 800
Iqaluit NT X0A 0H0

Re: NIRB 99TN042
Activity: Tourism – Fishing and Hunting Lodge at Ennaidai Lake
Due Date: July 19, 1999

30.27.000

Dear Mr. Irniq:

At your request, the Prince of Wales Northern Heritage Centre has reviewed the above-noted application. Our recommendations follow.

We recommend approval of the above-cited application as the proponent's proposed activities do not constitute a threat to known archaeological resources.

The attached conditions specify plans and methods of site protection and restoration to be followed by the permittee if an archaeological site is encountered or disturbed in the course of the land use activity.

Regards,

Charles D. Arnold, Director
Culture, Heritage and Languages

Prince of Wales Northern Heritage Centre

c. Nunavut Impact Review Board
PO Box 2379
Cambridge Bay, NT X0E 0C0



ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS

BACKGROUND

- I. The archaeological record of the Inuit of Nunavut is a record of Inuit use and occupancy of lands and resources through time. The evidence associated with their use and occupancy represents a cultural, historical, and ethnographic heritage of Inuit society and, as such, Government recognizes that Inuit have a special relationship with such evidence which shall be expressed in terms of special rights and responsibilities.

The archaeological record of Nunavut is of spiritual, cultural, religious and educational importance to Inuit. Accordingly, the identification, protection and conservation of archaeological sites and specimens and the interpretation of the archaeological record is of primary importance to Inuit and their involvement is both desirable and necessary.

In recognition of the cultural, spiritual and religious importance of certain areas in Nunavut to Inuit, Inuit have special rights and interests in these areas as defined by Article 33 of Nunavut Land Claim Agreement.

- II. "Archaeological site" means a site or work within Nunavut of archaeological, ethnographical or historical importance, interest or significance or a place where an archaeological specimen is found, and includes explorers' cairns. "Archaeological specimen" means an object or specimen found in an archaeological site of archaeological, ethnological or historical importance, interest or significance and includes explorers' documents.
- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.
- IV.
 1. The permittee shall not operate any vehicle over a known or suspected archaeological site.
 2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
 3. The permittee shall contact the Department of Culture, Language, Elders and Youth, Iqaluit (867-979-4720) and DIAND official should an archaeological site or specimen be encountered or disturbed by any land use activity.
 4. The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth.
 5. The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition, and according to the respective jurisdictions and authorities.
 6. The permittee shall provide information to the Department of Culture, Language, Elders and Youth about each archaeological site or specimen encountered by any land use activity, by completing the attached form.
 7. The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and specimens.