

## **Environmental Checklist**

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# **Black Sand Beach Excavation Project**

**Prepared for:**

**Washington State Department of Ecology**

**Prepared by:**

**URS Corporation  
920 N. Argonne Road, Suite 300  
Spokane, Washington 99212**

**December 18, 2009**

## Preface

The purpose of this Environmental Checklist is to identify and evaluate environmental impacts that could result from the Proposed Action and to identify measures to mitigate those impacts, if warranted. The Proposed Action is to remove granulated slag that has accumulated over time along the Black Sand Beach (BSB) of the upper Columbia River. The Project will be conducted by Teck American Incorporated of Spokane, Washington (Teck), a Voluntary Independent Interim Action in accordance with the Model Toxics Control Act (MTCA), Revised Code of Washington (RCW) 70.105D, and Chapter 173-340 of the Washington Administrative Code (WAC), 2007. Teck will complete this Project under a Voluntary Cleanup Agreement with the Washington State Department of Ecology (Ecology).

The State Environmental Policy Act (SEPA), Chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. This Environmental Checklist has been prepared in compliance with SEPA and the SEPA Rules, effective April 4, 1984, as amended (Chapter 197-11, Washington Administrative Code) to evaluate whether the proposed project will present significant adverse impacts requiring an EIS.

This document provides SEPA analysis associated with site preparation work and grading/excavation. Probable, significant environmental impacts associated with project-related activities are disclosed in this document. Analyses contained in this Environmental Checklist are based on preliminary plans for the project, which are on file with Ecology. While not construction-level detail, the schematic plans accurately represent the area and approximate volume to be excavated and are considered adequate for analysis and disclosure of environmental impacts.

This Environmental Checklist is organized into three major sections. Section A provides background information concerning the Proposed Action (project purpose, proponent name and contact person, project description, project location, etc.). Section B contains the analysis of environmental impacts that could result from implementation of the proposed project based on a review of major environmental parameters. Section B also identifies proposed mitigation measures that have been included in the schematic design drawings. Section C contains the signature of the proponent and the environmental consultant, confirming the completeness of this Environmental Checklist.

**A. BACKGROUND**

**1. Name of proposed project:**

Black Sand Beach Excavation Project

**2. Name of applicant:**

Teck American Incorporated (Teck)

**3. Address and phone number of applicant and contact person:**

Contact Person: David Godlewski, Teck American Incorporated  
Address: 501 North Riverpoint Boulevard, Suite 300, Spokane, WA  
99202  
Telephone: 509-747-6111

**4. Date Environmental Checklist prepared:**

November 6, 2009

**5. Agency requesting Checklist and Contact Person:**

Agency: Ecology  
Contact Person: Charles Gruenenfelder  
Address: N. 4601 Monroe, Spokane, WA 99205-1295  
Telephone: 509-329-3439  
Fax: 509-329-3529

**6. Proposed timing or schedule (including phasing, if applicable):**

The project consists of two phases: Phase 1 includes activities associated with planning, designing, and permitting; and Phase 2 consists of removing approximately 5,000 cubic yards of granulated slag from a prescribed area in the upland portion of Black Sand Beach (BSB). Phase 2 activities, including excavation, fill placement and grading activities, are anticipated to be conducted in the fall of 2010 (September/October) within a three to six week period.

**7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.**

Topographic surveys and potentially post excavation monitoring (e.g., visual observations and photographs) as may be required by Ecology.

**8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

- Black Sand Beach Surveys; Survey Solutions, 2006 and 2009
- Limited Reconnaissance Sampling; Ecology, Feb 13, 2008
- Laboratory Analysis Report; Manchester Laboratory, Feb 28, 2008
- Phase I Sediment Sampling Data Evaluation, Upper Columbia River Site, CERCLA RI/FS, August 25, 2006
- Static Acute Fish Toxicity Tests/Dangerous Waste Characterization, March 24, 2008
- Black Sand Beach Surface Water, Ecology, 2009
- Vertical Distribution of Trace-Element Concentrations and Occurrence of Metallurgical Slag Particles in Accumulated Bed Sediments of Lake Roosevelt, Washington, September 2002, USGS

These documents can be viewed at the following link:

[http://www.ecy.wa.gov/programs/tcp/sites/blackSandBeach/blackSandBeach\\_hp.html](http://www.ecy.wa.gov/programs/tcp/sites/blackSandBeach/blackSandBeach_hp.html).

**9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal?**  
No.

**10. List any government approvals or permits that will be needed for your proposal, if known.**

Preliminary investigation indicates that the following permits and/or approvals may be required for the proposed action. Additional permits and approvals may be identified during the review process.

- Joint Aquatic Resources Permit - Nationwide Permit 38 (USACE)
- CWA Section 404 Permit (USACE)
- Work Plan Approval (Ecology)
- 401 Water Quality Certification (Ecology)
- Site Analysis Application (Stevens County)
- Shoreline Master Program Substantial Development Application (Stevens County)
- Flood Hazard Permit (Stevens County)
- Grading/excavation Permit (Stevens County)
- Truck Haul Plan and Traffic Control Plan approval (Stevens County/WSDOT)
- Hydraulic Project Approval/JARPA (WDFW)
- Application to access/use state-owned aquatic lands (WDNR)
- Forest Practices Permit (WDNR)
- Import License (Canada)
- Railroad crossing approval (BNSF Railway)

**11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this Checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)**

Approximately 5,000 cubic yards of slag-impacted beach sediments are proposed to be removed and trucked to Trail, British Columbia. Slag is an industrial waste and contains hazardous substances including, zinc, lead, copper, and other metals that cannot be removed from the slag in normal processing. Removing slag impacted beach sediments will protect the health of the river and aquatic life. Removal will also provide a cleaner beach for recreation.

A lesser quantity of clean fill material, including sand, will be placed at the site in order to decrease pre-excavation beach grades which will reduce the overall height of portions of the beach.

The project site (commonly referred to as Black Sand Beach – BSB) contains an area of approximately 47,920 square feet, or approximately 1.1 acres (Figure 1). The voluntary independent interim action (interim action) includes excavating as much granulated slag as possible at the BSB using conventional excavation techniques such as excavators. Approximately 5,000 cubic yards of material would be removed. Because the granulated slag is visually distinct from native soils at the site, visual observation will direct excavation and not analytical testing. The determination of when excavation is complete in an area will be determined by the on-site Engineer in consultation with Ecology.

This interim action might leave residual granulated slag in place when further removal is problematic. Examples of situations where residual granulated slag may remain include: where slag is at depth below groundwater levels, when granulated slag is found as a minor component of the matrix, when granulated slag is encountered near cultural resources, etc. Excavated areas will be filled with an imported backfill designed to withstand expected hydraulic erosional forces, and to provide recreational opportunities for future users of the site. The elevation of the replaced beach will be lower than the current beach to minimize potential erosion. Note that there is potential that replaced fill could be eroded in the future.

Excavated material will be loaded into highway dump trucks and transported to Teck's Trail, BC facility for eventual recycling. These trucks will be used to import clean fill back to the site. During transport to and from the site and because of access road configuration, trucks will leave the site heading west toward Northport and will turn-around about 2 miles west of the site on a parcel adjacent to the Northport-Waneta Road owned by Stevens County. Details of the site access, restoration, and proposed mitigation are described in Section B.

The interim action is a voluntary independent interim action being conducted by Teck under the requirements of MTCA subchapter WAC 173-340-515. A voluntary independent action is generally conducted without formal department oversight or approval and not under an order, agreed order or consent decree. Teck is conducting the Black Sand Beach interim action in coordination with Ecology's informal advice and assistance including technical consultations on the administrative and technical requirements of the MTCA. This consultation with Ecology is voluntary as described in WAC 173-340-515(5).

No specific numeric cleanup levels or contaminant pathway considerations will be used to guide or direct the limits of excavation. Therefore, there is potential that residual quantities of granulated slag will remain, likely buried at depth beneath clean soil fill.

- 12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.**

The site of the proposed B S B Excavation Project is the Black Sand Beach, a name used to describe a localized riverine beach area in the upper reaches of the Upper Columbia River, in Stevens County, near Northport (Figure 1). The B S B is located along the southeastern bank of the river, just downstream from USGS gauging station 12399510 (former Columbia River Auxiliary Gage at International Border) at approximate River Mile 743.

The site may be further located as follows:

- Section 16 of Township 40 N, Range 41 East (Figure 2)
- Approximately 117.645° latitude, 48.972° longitude (Figure 3).
- Assessor Parcel Number (APN) 8000367 (Stevens County Assessor Records)
- Parcel is owned by the State of Washington (state trust land) managed by the Department of Natural Resources
- Located immediately northwest of the Northport-Waneta Road (former Hwy 251), with access provided by an unimproved dirt road.

## **B. ENVIRONMENTAL ELEMENTS**

### **1. Earth**

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other: slight rise.**

A gently sloping beach area created by the river action on the bank. See Figure 1.

- b. What is the steepest slope on the site (approximate percent slope)?**

Approximately 40 percent in the first 20 feet of the shoreline.

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.**

Sand sized beach sediment containing a high percentage of granulated slag material is anticipated to overlay gravels deposited by the river, and/or bedrock. No agricultural soils.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.**

No.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.**

Approximately 5,000 cubic yards would be excavated and the area would be regraded similar to surrounding conditions. Minor temporary filling (about 100 cubic yards) would be necessary to improve the access road. Temporary fill material would be removed at the conclusion of the project. At this time, the source of fill has not yet been finalized but it will be obtained from an approved commercial facility.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.**

Yes. During construction, erosion could occur due to excavation activities. Once completed, erosion may occur in areas where new fill material, especially sand, has been placed.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**

None, zero percent.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:**

Measures to reduce or control erosion would be implemented during the construction process in accordance with the Ecology Stormwater Control Manual. Measures would include:

- A silt fence will be installed at the shoreline.
- A turbidity screen may also be installed if turbidity effects are observed during monitoring.
- Stockpiles (if any) will be covered with plastic sheeting during rain, wind, and overnight.
- Temporary road maintenance will occur, as appropriate, to address rutting or rill development caused by rainfall runoff, in accordance with BMPs identified in the SWPPP.

## 2. Air

- a. **What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.**

The Proposed Action could result in minor and temporary increases in air quality emissions during the construction period from fuel-powered equipment, truck trips and soil disturbance activities.

Air quality in the area is regulated by the United States Environmental Protection Agency (EPA) and Ecology. EPA sets national standards and has oversight authority for Ecology. The project would conform to the applicable rules of these agencies.

- b. **Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.**

No.

- c. **Proposed measures to reduce or control emissions or other impacts to air, if any:**

Measures that would be implemented to reduce or control emissions during construction include the following:

- During excavation and construction, exposed areas would be sprinkled with water as necessary to control dust.
- Truck loads will be covered and routes would be monitored to minimize dust-related impacts.
- Well-maintained construction equipment would be used to reduce emissions.
- Prolonged periods of vehicle idling would be avoided.



### 3. Water

#### a. Surface:

- 1) **Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

The site is immediately adjacent to the Columbia River.

- 2) **Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

Yes, the project will require work adjacent to the Columbia River. See Figure 4.

- 3) **Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

No fill material would be placed in or removed from surface water or wetlands. Work will likely encounter local, shallow near-shore groundwater, however no work will occur in the river or wetlands. Approximately 5,000 cubic yards of granulated slag material would be removed from the upland portion of the site, but not from surface water or wetland areas. At this time, the source of fill has not yet been finalized but it will be obtained from an approved commercial facility.

- 4) **Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

Water may be withdrawn from the river for dust control purposes. A temporary permit from the Department of Ecology would be required.

- 5) **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

Yes. See Figure 4.

- 6) **Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No waste materials are intended to be discharged into surface waters. There is a potential for run-off to the Upper Columbia River during excavation activities, which will be managed under a Construction Stormwater permit from Ecology and an approved erosion and sediment control plan and stormwater pollution prevention plan.

**b. Ground:**

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

No. Excavated sediment will be temporarily stockpiled on the beach and allowed to drain prior to transport. Since both the sending and receiving water source is local near-shore groundwater, it is not considered a discharge.

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

None.

**c. Water runoff (including stormwater):**

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

The project would not result in any permanent impervious surface area. The project would remove slag-impacted beach sediment that currently is susceptible to erosion/scour caused by seasonal changes in river stage and discharge, and to a lesser extent by rainfall runoff events.

- 2) Could waste materials enter ground or surface waters? If so, generally describe.**

During construction, there is a potential that small quantities of sand to silt-sized beach sediment material may enter the river via erosion or runoff. After construction, there is potential that some backfilled soil could be eroded into the river during periods of high water. Note that backfill soil will be analytically tested for metals and asbestos prior to placement or certified by the supplier.

**d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:**

Proposed measures would include the following:

- An engineered backfilling sequence will be used to minimize runoff and to stabilize the shore perimeter along the outer edge of the fill zone;
- A silt fence will be installed at the shoreline;
- A turbidity screen may be installed several feet into the river to contain any sediments that may be generated during excavation adjacent to the shoreline;
- A Temporary Erosion and Sediment Control (TESC) Plan, and;
- A stormwater pollution prevention plan (SWPPP) will be prepared to supplement the TESC.

#### 4. Plants

##### a. Check or circle types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other: oak
- evergreen tree: fir, cedar, pine, other:
- shrubs
- grass
- pasture
- crop or grain
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

Grasses, scattered low lying forbs and occasional ponderosa pines are present immediately upland from the Ordinary High Water Mark. As elevation increases, the vegetation transitions to a coniferous Ponderosa Pine (*Pinus Ponderosa*) forest typical of drier climates in northeastern Washington. Pinus Ponderosa forests are characteristic “of a short growing season and minimal summer precipitation” (USFS, 1973). Ponderosa pines are scattered within the 100-year flood plain and increase in density as elevation increases as a transitional zone. Within the flood plain occasional juniper trees are present, most commonly found on a rock outcrop immediately north of the site.

As tree density increases with elevation and Douglas Firs, cotton woods, aspens and paper birch are also present. The understory of the ponderosa forest contains forbs such as service berry, snowberry, bulbous bluegrass, choke cherry and starry false-Soloman’s-seal.

##### b. What kind and amount of vegetation will be removed or altered?

Temporary road improvement activities may result in some limited tree removal to provide turning radius area for trucks.

- c. **List threatened or endangered species known to be on or near the site.**  
None known.
- d. **Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:**  
None. The restoration of the beach would include placement of rock and gravel similar to surrounding areas and sand.

**5. Animals**

- a. **Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:**

  X   birds: hawk, heron, eagle, songbirds, crows, pigeons, seagulls  
  X   mammals: deer, bear, elk, beaver, squirrels, small mammals  
  X   fish: bass, sturgeon, walleye, trout, shellfish

- b. **List any threatened or endangered species known to be on or near the site.**  
None known. There are no ESA-listed fish present in the Columbia River mainstem upstream of Chief Joseph and Grand Coulee Dams.

- c. **Is the site part of a migration route? If so, explain.**  
The site is within the Pacific Flyway, and could be visited by migratory water fowl.

- d. **Proposed measures to preserve or enhance wildlife, if any:**  
Proposed erosion and runoff control measures discussed in Sections 2 and 3 will be used to reduce or eliminate potential impacts to fish and wildlife in or using the affected portion of the Columbia River during excavation.

A gravel erosion-resistant layer will transition the backfill to native sediment at the water line.

**6. Energy and Natural Resources**

- a. **What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.**

The completed project will not result in any need for energy.

- b. **Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.**

No.

- c. **What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:**  
None required.

7. **Environmental Health**

- a. **Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.**

There is a potential for workers to come in contact with the granulated slag. There is the potential risk for spillage of granulated slag during handling and transportation of these materials.

- 1) **Describe special emergency services that might be required.**

An environmental spill response team from the Teck facility in Trail, British Columbia will be used as necessary in the event of spillage of slag during transport (e.g., truck accident). The spill response team is capable of responding to spill events on either side of the Canadian/U.S. border. Spills that may pose a threat to the environment will be reported to the National Response Center at 1-800-424-8802 and the Washington Emergency Management Division at 1-800-258-5990.

- 2) **Proposed measures to reduce or control environmental health hazards, if any:**

A site specific health and safety plan will be prepared to discuss potential safety hazards and mitigation measures that will be used during the proposed project. OSHA 40-hour Hazardous Waste Operations Training and Standard Level D personal protection equipment will be required of all site workers.

b. **Noise**

- 1) **What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

None.

- 2) **What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

No long-term noise levels would result from the project. Short-term temporary noise would be expected from operation of an excavator, loader,

dump trucks, vacuum truck, water truck, and miscellaneous equipment. Work hours are anticipated to be between 7:00 am and 7:00 pm up to six days a week for up to 6 weeks.

**3) Proposed measures to reduce or control noise impacts, if any:**

The following measures could be implemented to reduce construction noise:

- All engines and engine-driven equipment used for hauling and construction would be equipped with a properly-sized and maintained muffler to prevent excessive or unusual noise.
- Compression brakes will not be allowed near developed areas.
- All construction activity would be limited to daytime hours.
- Construction equipment would be turned off during prolonged periods of non-use.

**8. Land and Shoreline Use**

**a. What is the current use of the site and adjacent properties?**

The site is currently in a natural area adjacent to the upper Columbia River. Land uses of adjacent properties are similar in nature to the site.

**b. Has the site been used for agriculture? If so, describe.**

No.

**c. Describe any structures on the site.**

None. An unmanned USGS gauging station is present about 200 feet north of the site.

**d. Will any structures be demolished? If so, what?**

No. There are no structures on the site.

**e. What is the current zoning classification of the site?**

The site is not zoned.

**f. What is the current comprehensive plan designation of the site?**

The Comprehensive Plan designates the site as Public Lands.

**g. If applicable, what is the current shoreline master program designation of the site?**

The Stevens County Shoreline Master Program designates the shoreline as Conservancy/Rural.

**h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.**

No, there is no additional classification beyond the River of State-Wide Significance.

**i. Approximately how many people would reside or work in the completed project?**

None.

**j. Approximately how many people would the completed project displace?**

None.

**k. Proposed measures to avoid or reduce displacement impacts, if any:**

None required.

**l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:**

The final grading plan for the beach area will be compatible with DNR's goals of similar existing use. Road access to the site will not be altered or notably improved, but will be returned to pre-project conditions to the extent possible.

**9. Housing**

**a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.**

None.

**b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.**

None.

**c. Proposed measures to reduce or control housing impacts, if any:**

None required.

**10. Aesthetics**

**a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?**

No structure is proposed.

**b. What views in the immediate vicinity would be altered or obstructed?**

None.

**c. Proposed measures to reduce or control aesthetic impacts, if any:**

The upper layer of backfill will be comprised of sand and gravel over most of the site.

## 11. Light and Glare

- a. **What type of light or glare will the proposal produce? What time of day would it mainly occur?**  
Minor light and glare from vehicle windshields during daytime excavation and hauling.
- b. **Could light or glare from the finished project be a safety hazard or interfere with views?**  
Not applicable.
- c. **What existing off-site sources of light or glare may affect your proposal?**  
None.
- d. **Proposed measures to reduce or control light and glare impacts, if any:**  
None required.

## 12. Recreation

- a. **What designated and informal recreational opportunities are in the immediate vicinity?**  
There are no formal recreational facilities in the immediate vicinity. The river is used for fishing and some boating. The site is used informally for river access and general recreational activities.
- b. **Would the proposed project displace any existing recreational uses? If so, describe.**  
For safety reasons, informal use of the site for river access will be prevented during excavation, hauling, and reclamation. Informal access will be returned to pre-construction state upon completion of site reclamation.
- c. **Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:**  
Backfill at the site will include a sand upper layer to simulate pre-construction conditions.

## 13. Historic and Cultural Preservation

- a. **Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.**  
An archaeological resource has been identified in the immediate vicinity of the project which is potentially eligible for the National Register of Historic Places.



- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.**

An archaeological resource has been identified in the immediate vicinity of the project which is potentially eligible for the National Register of Historic Places.

- c. Proposed measures to reduce or control impacts, if any:**

A professional archeologist will conduct an investigation that will include 1) a comprehensive literature review and records search with DAHP, 2) contacts with interested Native American Tribes, 3) intensive pedestrian survey of the Area of Potential Effect, 4) limited subsurface testing to determine the presence or absence of buried cultural resources , 5) upon discovery of buried cultural resources , close interval testing would be employed to define the limits of the materials, and 6) a Cultural Resources Plan has been prepared to address all elements of cultural resource considerations associated with the project, including inadvertent discoveries during the excavation activities.

#### **14. Transportation**

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.**

The closest street to the site is Northport Waneta Road (County Highway 251). See Figure 5. Entry to the site is via an existing private access road.

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?**

No.

- c. How many parking spaces would the completed project have? How many would the project eliminate?**

None.

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).**

A short section of the existing private access road would be temporally improved, by filling in several large ruts (as described in Section B1e). At the request of the State, these improvements will be removed following construction.

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

**Yes.** Access to the site requires crossing a BNSF Railway Company line.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.**

Up to 500 truck trips (in and out) (i.e., 10-15 trips per day) would occur over the approximate three to six week work period, spread throughout the day from 7:00 am to 7:00 pm.

- g. Proposed measures to reduce or control transportation impacts, if any:**  
Flaggers, signage, and traffic control will be used for public safety at the entrance to the site and at the truck turn-around location. Roadways used to transport material removed from the site may require periodic cleaning. Loads will be secured, if necessary, to reduce the potential for release.

**15. Public Services**

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.**  
Private security guards will provide 24-hour security at the site throughout the construction phase.
- b. Proposed measures to reduce or control direct impacts on public services, if any.**  
None required.

**16. Utilities**

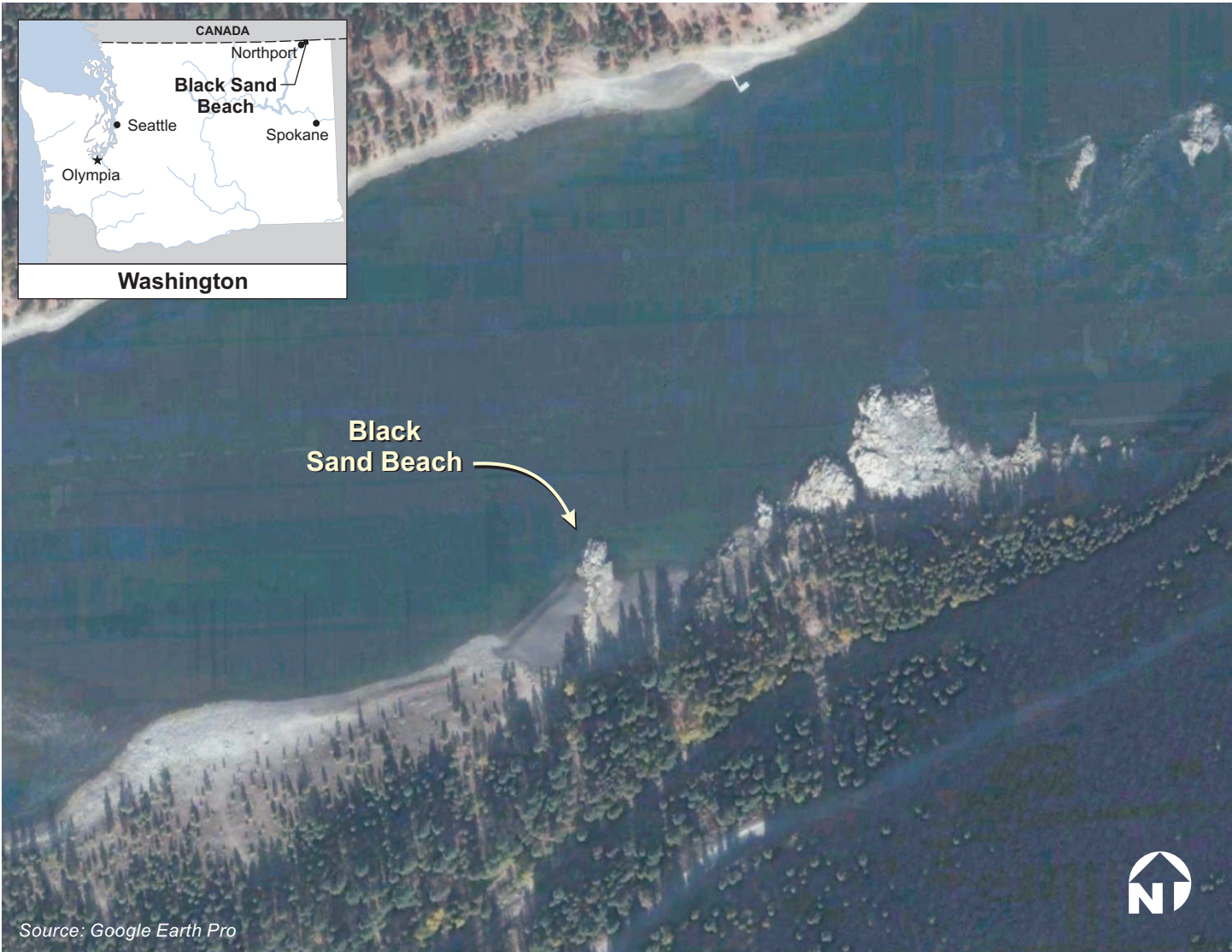
- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.**  
None.
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**  
None.

**C. SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Paul T. McCullough

Date Submitted: 12-18-09



Source: Google Earth Pro



Photos taken 5-22-09.

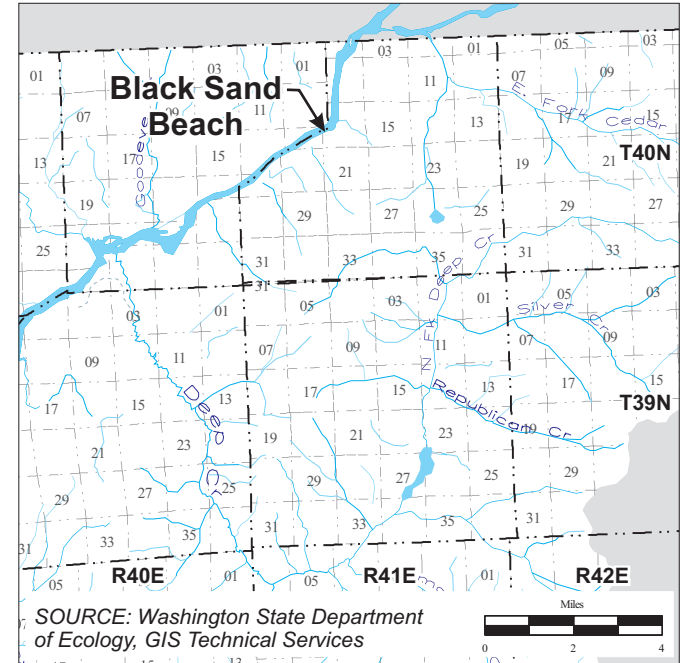
Figure 1

### Black Sand Beach Location and Site Photographs



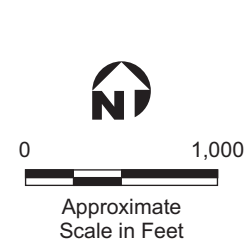


SOURCE: Steven's County Assesor's Office



### Township and Range

Stevens County Washington  
Township 40 N Range 41 E Section (see grid)

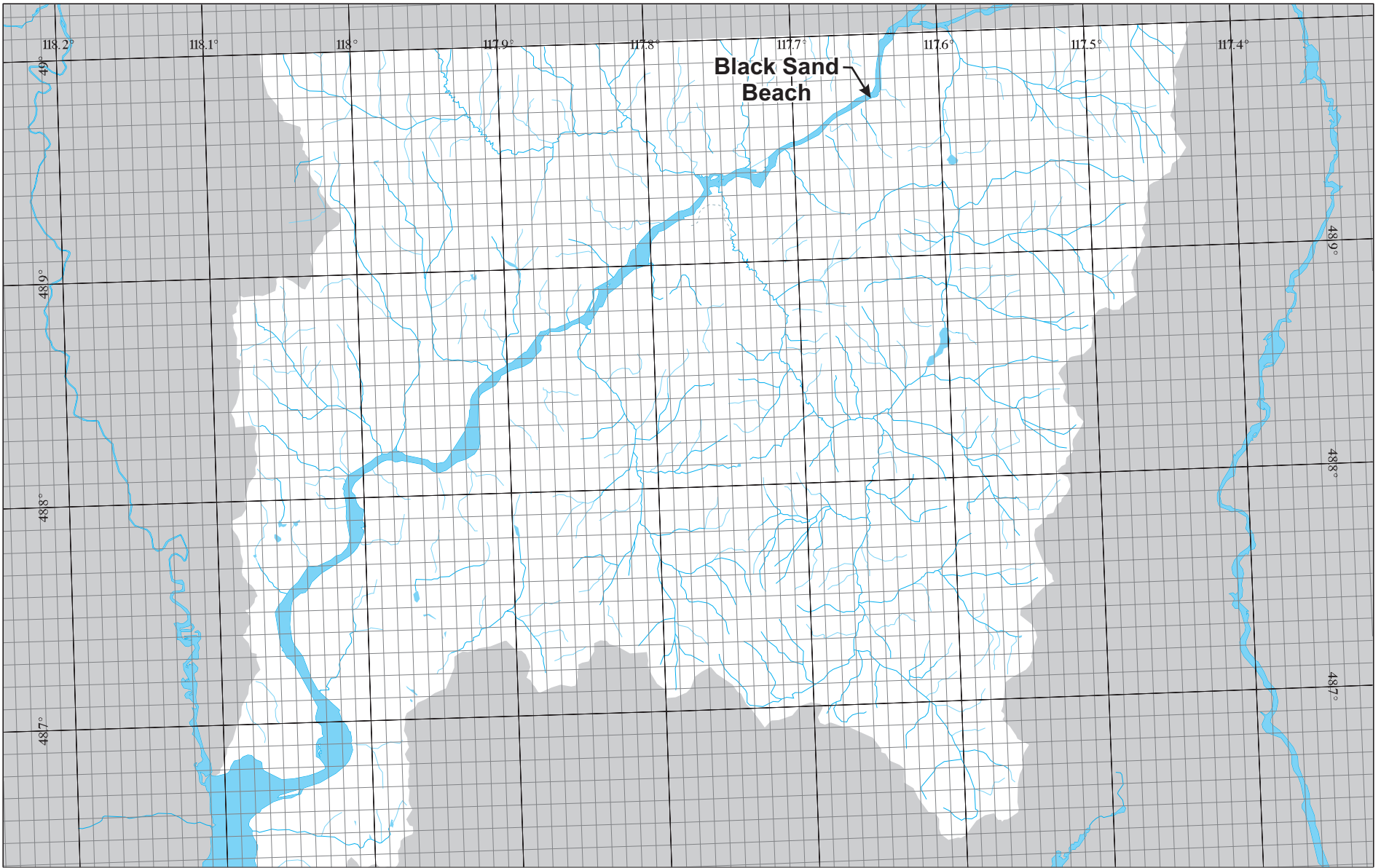


04	03	02	01		
09	10	11	12		
16	15	14	13		
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Figure 2  
**Parcel Map**

Black Sand Beach  
Northport, Washington





SOURCE: Washington State Department of Ecology, GIS Technical Services

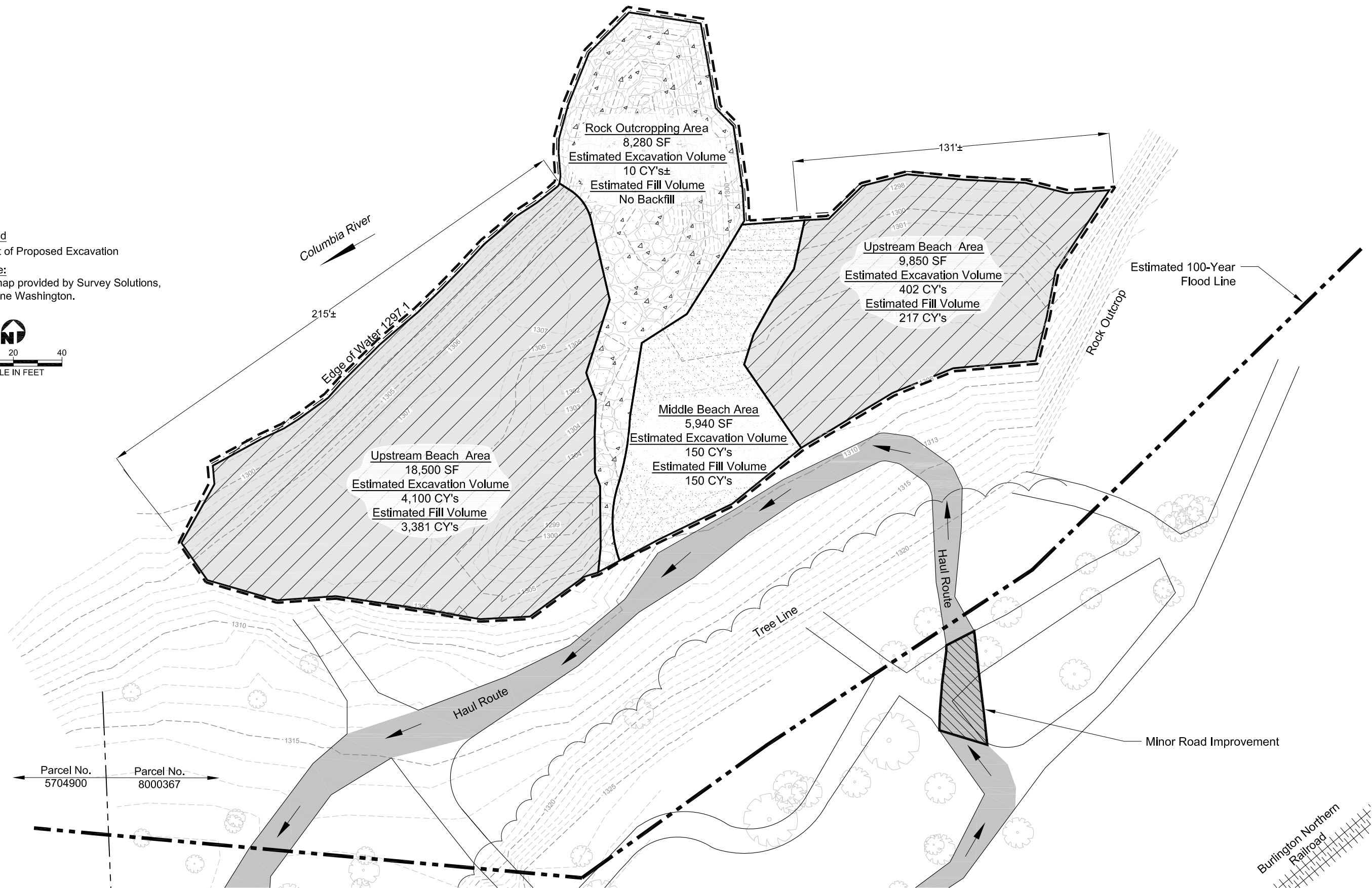
Job No. 36310019

Figure 3  
Project Site Latitude and Longitude



Black Sand Beach  
Northport, Washington

**Legend**  
 - - - - - Extent of Proposed Excavation  
 Source:  
 Basemap provided by Survey Solutions,  
 Spokane Washington.

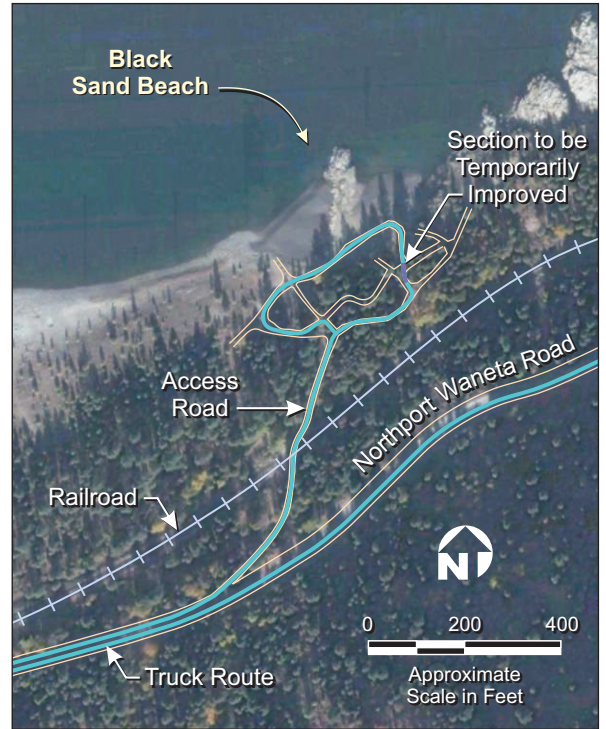
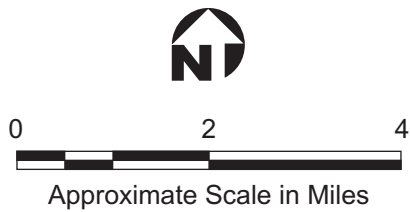


**Black Sand Beach Subareas and Proposed Area of Excavation**





Source: Google Earth Pro



Detail

**Driving directions to  
600 Bingay Rd, Trail, BC, Canada**  
15.7 mi – about 31 mins

From Northport Waneta Rd, head northeast on Northport Waneta Rd toward Northport Waneta Rd/Waneta Rd

Entering Canada (British Columbia) 2.7 mi

Continue on HWY 22A 6.9 mi

Turn left at 22A 4.5 mi

Continue on Aldridge Ave 0.7 mi

Turn left at Bingay Rd 0.8 mi