## Black Sand Beach Slag Removal Project

**Upper Columbia River Stevens County, WA** 

Presented by the



#### **Black Sand Beach - Overview**

- Located approximately 3 miles south of the U.S. Canadian border
- Southeastern bank of Upper Columbia River
- >Approximately 1 acre beach area
- Popular site for recreation use
- "Black Sand" largely consists of slag material from the Trail smelter

### Site Location



## **Aerial View**



## Upstream Beach Area





### Downstream Beach Area





## Rock Outcrop/Middle Beach



## **High Water Conditions**





### What We Will Share Tonight

- Why Teck and Ecology are taking action at the Black Sand Beach
- What specific activities will take place
- How the public may influence this process
- The next steps that will occur

# Removal of Slag at Black Sand Beach is Important

- Slag contains hazardous substances (heavy metals) that can harm the health of the river and aquatic organisms
- Large slag deposit --actively eroding
- State-owned land, readily accessible with heavy recreational use

# **Ecology Selected This Beach for Specific Reasons**

- State-led initiative, endorsed by legislature
- Remove slag material before further erosion occurs -- protect the river
- Provide a cleaner beach for public use
- Ongoing EPA study will take many years to complete before reaching cleanup decision

# Teck's and Ecology's Roles in the Project

- Teck offered to conduct the work and pay for all costs of slag removal and clean fill placement
- A voluntary agreement was reached between Teck and Ecology to conduct what is called an *interim action*
- Ecology oversees Teck's work on the project
- Teck's work on Black Sand Beach is separate from EPA's RI/FS in the Upper Columbia River; it is not a "final" cleanup action

## Phase 1 – Project Planning and Coordination

#### **Major Phase 1 Elements:**

- Develop Work Plan
- Prepare Engineering Designs
- State Environmental Policy Act (SEPA) Checklist
- Cultural Resource Planning and Archaeological Survey
- Prepare Joint Aquatic Resources Permit Application – submit to Army Corps of Engineers

## Phase 2 - Doing the Work

- Teck selects construction contractor
- Remove slag-impacted beach sediment and haul by truck to Trail, B.C. for recycling (~5000 cu yd)
- Replace and regrade the beach using clean fill material (layered fill design)
- Return access road to original condition

## Protective Measures Will be Used

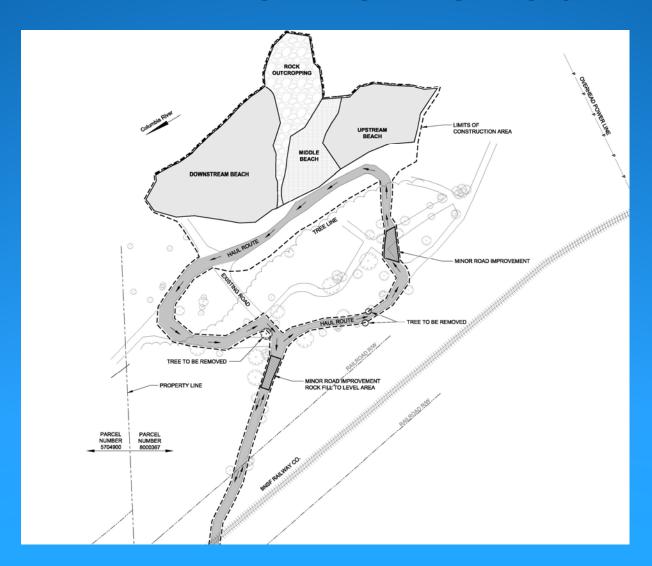
#### **Best Management Practices**

- Erosion and sediment control measures
- Controlling and monitoring dust
- Monitoring turbidity in the river

#### **Traffic Control Measures**

Safety flaggers where needed

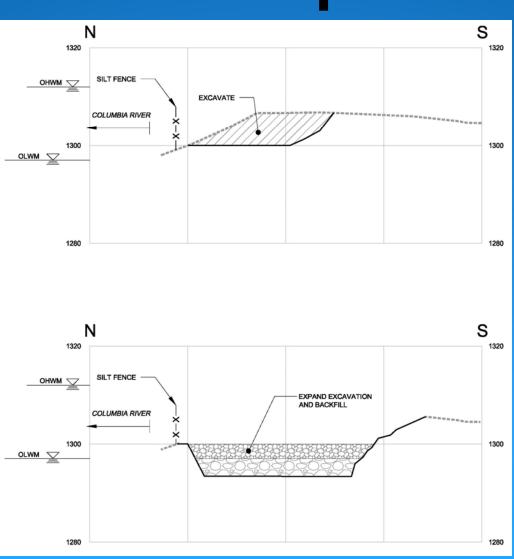
## How Slag Will Be Removed



## How the Beach Will Be Replaced

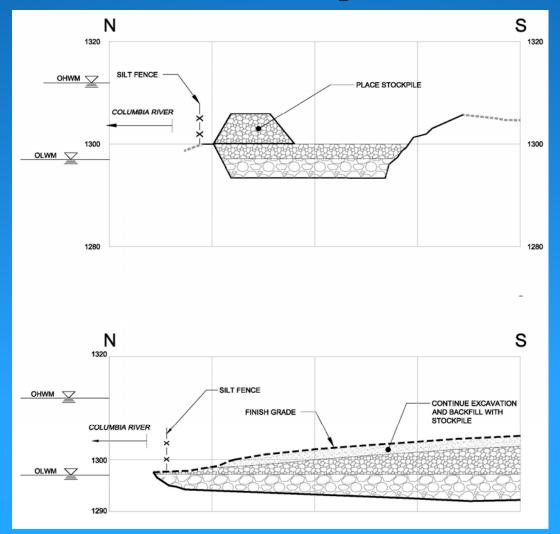
Step 1

Step 2



## How the Beach Will Be Replaced

Step 3



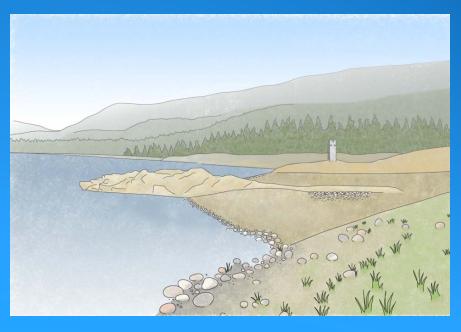
Step 4

## WILL THE BEACH LOOK DIFFERENT?



**Before** 

Artist Depictions – Before and After (Courtesy of URS)



**After** 

## Addressing Erosion or Recontamination

- Teck will monitor the beach for up to 5 years and document any notable changes
- If erosion occurs, assume it to be part of natural, ongoing river processes in the floodplain
  - Sampling and analysis of beach sediment may occur if recontamination concerns arise

## What Happens Next?

- Comment period ends February 5, 2010
- Ecology reviews and responds to public comment
- Modify design as appropriate (90% design)
- Ecology issues final SEPA determination

### What Happens Next?

- Joint Aquatic Resource Permit Application review
  - **Army Corps of Engineers** 
    - Shorelines Ecology and Stevens County
  - Hydraulic Project Approval WA Dept Fish
  - & Wildlife
  - Cultural Resources Department of Archaeology and Historic Preservation and Tribes

#### Who Can I Talk To?

#### **Handout Available**

#### **Department of Ecology**

- Chuck Gruenenfelder
   — Site Manager/questions
   (509) 329-3439 or <a href="mailto:chgr461@ecy.wa.gov">chgr461@ecy.wa.gov</a>
- Carol Bergin Public Involvement/mailing list (509) 329-3546 or <a href="mailto:cabe461@ecy.wa.gov">cabe461@ecy.wa.gov</a>

#### Teck American Inc.

- Marko Adzic Project Coordinator/Construction contact (509) 892-2585 or Marko Adzic@teck.com
- Dave Godlewski VP Environmental and Public Affairs (509) 892-2584 or dave.godlewski@teck.com

## Thank You

