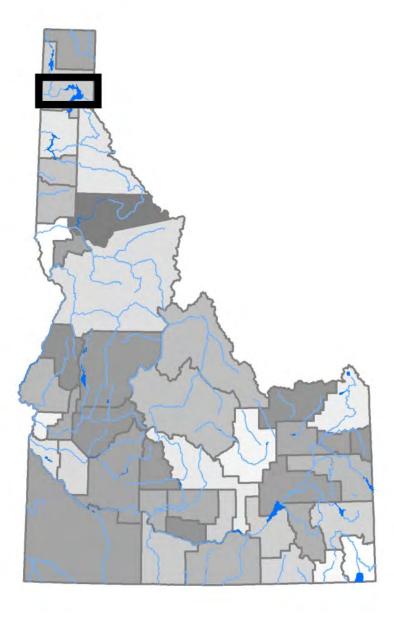


# LAKE PEND OREILLE AND PEND OREILLE RIVER

# **Geographic Response Plan**



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# LAKE PEND OREILLE AND PEND OREILLE RIVER

**GEOGRAPHIC RESPONSE PLAN** 

May 2020

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# **Emergency Contact Sheet**

Required Notifications				
Activation of StateCommth	Activation of StateComm through the 911 system will automatically include these notifications			
National Response Center	800-424-8802	Idaho Department of	208-769-1422	
		Environmental Quality, Coeur	208-660-9285	
		d'Alene Regional Office		
Idaho Department of	855-647-3777	Idaho State Communications	800-632-8000	
Environmental Quality		Center		

Railroad Contact	
BNSF Resource Operations Center	800-832-5452
BNSF Mgr. Hazmat Planning	406-202-8051
BNSF General Director Hazmat	817-821-1325
BNSF Director Hazmat	360-553-8672
Union Pacific Railroad Response	888-877-7267
Management Communication	
Center	
Montana Rail Link (MRL)	406-465-0942
Emergency Hotline	
MRL Director Environmental	406-465-0942
MRL Director Structures	406-370-6602
MRL Chief of Safety/Security	406-370-6177

Federal	
U.S. EPA Region 10 Spill Response	206-553-1263
Team	
U.S. Coast Guard Watchstander	503-240-9301
U.S. Coast Guard Pacific Strike	415-883-3311
Team	
U.S. Coast Guard District 13	206-217-6004
Officer of the Day	
U.S. Fish & Wildlife Service –	509-891-6839
Spokane	
U.S. Forest Service – Sandpoint	208-263-5111
Ranger District	
U.S. Army Corps of Engineers –	206-764-3690
District Office/Albeni Falls Dam	208-437-3133
NOAA Weather – Spokane	509-244-0537
NOAA Hazmat Response	206-526-4911
NOAA Scientific Support	206-849-9926
Coordinator	
U.S. Fish & Wildlife Service –	208-378-5243
Boise, ID	

Water Supply Contacts	
Clark Fork Public Water Supply	208-266-1853
	(After hours
	emergency)
Dover Public Works – Water &	208-265-4270
Sewer	
Laclede Public Water	208-265-4270
Oden Water Association	208-265-4270
Sandpoint Public Works (Distribution)	208-263-3428
Sourdough Point Water System	208-265-4270
Sunnyside Water	208-265-4270
Cabinet Gorge Dam – Operations	208-266-1531
Control Room	

Tribal – Kootenai Tribe	
Kootenai Tribe of Idaho	
Ext 514	208-267-3519
Cell	208-597-2002
Kootenai Tribe of Idaho	208-267-7451
Alternate contact	

Merdical Services	
Bonner General Hospital	208-263-1441
Kootenai Health	208-625-5700

Pipeline Company	
Trans Canada Community	509-533-2869
Relations Specialist	

State	
Idaho State Police	208-884-7000
	HQ in Boise
	208-209-8730
	Dispatch
Idaho DOT – Bonner County Area	208-772-1200
(District 1)	
Idaho Ops Office	208-378-5773
Idaho Department of Fish & Game	208-769-1414
	208-799-5010
State Historic Preservation Office	208-334-3861
	208-488-7468
Dig Line (ID)	800-342-1585
	or 811
Panhandle Health District	208-415-5200
Idaho Department of Water	208-769-1422
Resources	

Local Government (County, City)	
Bonner County Department of	208-265-8867
Emergency Management	208-255-6901
Bonner County Sherriff	911 or
(including Marine Division)	208-263-8417
Bonner County Commissioner	208-265-1438
Bonner County Public Works	208-255-5681
	ext 2
Bonner County Public Safety	208-255-3630
Technology Director	ext 1196
Bonner County Road & Bridge	208-255-5681
Dept.	
Clark Fork, ID, City Hall & Mayor	208-266-1315
Dover, ID	208-265-8339
East Hope, ID	208-264-5877
Kootenai, ID	208-265-2431
Ponderay, ID	208-265-5468
Priest River, ID, Public Works	208-946-9750
	208-290-4721
Sandpoint, ID	208-263-3158

#### Preface

## **Intended Audience**

Geographic Response Plans (GRPs) are site-specific plans for responding to oil spills. The plans are tailored to a specific shore or water way and are developed to minimize impact on sensitive areas threatened by the spill. Each GRP has several chapters with a variety of information that is useful to responders, both in the initial hours and for longer periods of time if a response is sustained.

This GRP is intended to aid the response community during the initial phase of an oil spill, from the time a spill occurs until an Incident Command or Unified Command is established. The plan prioritizes tactical response strategies based on locations where spills might occur, and the proximity and relative priority of those locations to sensitive natural, cultural, and economic resources. GRP strategies serve as guidelines for responsible parties, federal, state, and local spill responders and are deployed by first responders and private contractors during an oil spill. Response strategies are provided for numerous unique sites that are located along waterway corridors most likely to be impacted by a potential spill. First responders and emergency dispatch operators will find benefit in identifying the unique features of the spill location. Access descriptions, equipment proximity, and location-specific emergency contact information is provided for each response strategy. GRPs are intended to be flexible and to allow spill responders to modify them as necessary, to fit the prevailing conditions.

Incident Command System (ICS) support personnel, fire departments, regional response teams, railroads, and state and federal spill response teams will find this GRP useful as a briefing tool to prepare for boom deployment and initial oil recovery. Unique features such as booming anchor points, proximity of equipment caches, staging areas, and critical seasonal variations are provided. Local natural and cultural resources that may be affected are identified in this document so that the ICS team can direct protection efforts.

Emergency management personnel will find this document useful for strategic planning purposes. Recommended equipment needed for each location is provided; the equipment needs can be compared to known inventories to ensure readiness of equipment caches. This GRP identifies vulnerabilities in the emergency planning system so that resources can be identified to protect citizens and natural resources.

Content for this document was compiled using material previously published and adapted from the 2005 Lake Pend Oreille Geographic Response Plan (RRT/NWAC, 2005) as well as the BNSF Railroad Draft Pend Oreille Subbasin Geographical Response Plan (BNSF, 2015).

#### How to Use This Document

The bulk of this plan is contained in Section <u>4</u> and associated appendices (Response Strategies and Priorities), which provide information on response strategies and the order they should be implemented, based on potential spill origin points and their proximity to population centers and sensitive resources.

To aid the user in locating a particular strategy, the Lake Pend Oreille region was divided into seven sectors,

with each sector having numerous response strategies. Electronic PDF versions of this document have hyperlinks to enable the user to bore down from a regional map, to a sector map, then to a particular response strategy.

Printed versions of this document are arranged by sector and then numerically by highway milepost number. Railroad and river milepost information is also provided in Section <u>4</u>.

This document recommends strategies and priorities for the order in which strategies should be implemented until a unified command is established. However, these recommendations are not a substitute for proper judgement based on current local factors.

Protecting human life is always the highest priority—public evacuation should be considered immediately. Control and containment of a spill becomes the next priority, followed by the appropriate response strategy. The information contained in the response strategy descriptions (Appendix B) is recommended guidance, not prescriptive requirements.

### **GRP Status Summary and Vulnerabilities**

The GRP development process evaluated regional and local emergency response equipment inventories and identified equipment and training status vulnerabilities as well as regionally-specific geographic economic, cultural and environmental resources-at-risk. Booming strategies were developed to protect the key resources-at-risk. The GRP also identified community-specific hazards associated with industrial activities and transportation of hazardous materials transported via pipelines, highways, and railways. State and local civic leaders and managers of the various emergency response agencies may be able to evaluate and address the remaining equipment and training vulnerabilities. These current equipment and training status summaries as well as identified vulnerabilities are presented as of July 2018.

#### **Current Equipment Inventory Status and Vulnerabilities**

A comparison of the equipment cache inventories presented in Section 4.6 and Appendix D with the equipment needs stated in the prioritization tables provided in Section 4.4 reveals that, the amount of emergency response equipment available appears adequate to implement response strategies contained in this GRP. Specialized and "state of the art" equipment such as "Current Busters" and "Boom Vanes" designed for inland oil spill application as well as multiple recovery skimming devises and storage tanks are staged locally (i.e., within a 2-hour response radius) as presented in Appendix D – Equipment Inventory.

Approximately 28,000 feet of boom is available within in a 2-hour travel time radius of Sandpoint. Boom, recovery, and storage equipment caches are located along transportation corridors in 4 areas: Sandpoint Area Cache with approximately 10,800 feet of boom, Clark Fork Area Cache with approximately 5,100 feet of boom; the Bonners Ferry/Kootenai Area Cache with approximately 7,750 feet of boom; and the Regional Area Cache primarily from Spokane and Coeur d'Alene with approximately 5,200 feet of boom. An approximate total of 41,000 feet of boom is available within a 6-hour travel time radius of Sandpoint. A full response in the Clark Fork Delta or at the Highway 95 Long Bridge could require as much as 11,800 feet of boom which would be mobilized by first responders and dedicated and specially trained oil spill response

technicians from Oil Spill Response Organizations (OSROs) arriving from around the Lake Pend Oreille Area and from various cities and towns in the region. Similar to USEPA- and USCG-approved procedures and protocol, additional boom and emergency response resources can be cascaded in within 6-12 hours from regional cities by dedicated OSROs who mobilize response equipment and personnel to the area. Vacuum trucks and frac tanks are not staged within the Lake Pend Oreille region and would need to be mobilized from outside the area. Railroads maintain a fleet of tank cars staged in the region that carry wildland fire fighting water which could be emptied and used for recovered oil storage. Additionally, emergency response equipment trailers can be moved with standard 1-ton load-rated pick-ups to the appropriate staging area as demonstrated recently during training events.

### **Current Equipment Inventory Status and Vulnerabilities**

Like most emergency response tasks, deployment of emergency response equipment and spill response boom is a specialized skill that requires training and field practice. Boom deployment in swift moving water or iced-over conditions adds complexity necessitating additional training. BNSF Railway, industry partners, OSROs, and key agencies (Bonner County Office of Emergency Management [OEM], Idaho Department of Environmental Quality [IDEQ] US Environmental Protection Agency [USEPA], US Army Corps [USACE], and the US Coast Guard [USCG]) regularly conduct oil spill training exercises and deploy and test GRP booming strategies in Region 10. Bonner County OEM, BNSF Railway, and IDEQ have conducted multiple GRP boom deployment and tabletop exercises in North Idaho in Lake Pend Oreille, the Clark Fork and Pend Oreille Rivers. The seven fire districts addressed in this plan largely staffed by volunteers and a smaller number of professionals are trained for a variety of emergency scenarios and most have attended boom deployment training. This community responder training is scheduled annually and attended by local and regional OSROs and agency members. Tabletop exercises are also conducted to review and test staff capabilities, knowledge of response plans and the GRPs.

## **Evacuation and Procedural Plan Status and Vulnerabilities**

The potential for transportation-related accidents including truck and train incidents requires that Bonner County communities to prepare to invoke prompt evacuations or provide shelter-in-place assistance. Facilities that are required to have an evacuation plan, such as schools and nursing homes, should also periodically review their plan and conduct appropriate training.

Bonner County has an Evacuation and Reception Plan that was written prior to the large increase in unit oil train Traffic (Bonner County, 2010a). Recent lessons learned from either the Cascadia Rising emergency action drill in 2015 or actual oil train accidents recommend additional training and planning. As discussed in Section 4.7, an oil train or hazardous material accident in the Sandpoint area would likely require evacuation of half the city's area. Existing preparations do not appear to adequately address the process for a hasty evacuation. Section 4.7 provided details regarding evacuation considerations.

## **Current Transportation Assessment and Geographic Vulnerabilities**

The Lake Pend Oreille region is vulnerable to spills of hazardous material from transportation-related

accidents involving highway vehicles and rail cars primarily because the transportation corridors are in close proximity to the rivers and the lake. Additionally, the rail lines and highways pass through or near many high-value wetlands (see Section 6.1.4) and cross over numerous streams and rivers. Of the 37 accidents reported between 1995 and 2014, 21 were at or near a lake, stream, or wetland.

Most notably, The Clark Fork Delta is vulnerable to any spill downstream of the Cabinet Gorge Dam, which is located 7.5 miles upstream of the Delta. At a stream velocity of 4.5 miles per hour (mph), a spill could reach the delta in under 2.5 to 3.5 hours. The nearest equipment caches are located at Clark Fork, ID and at the Cabinet Gorge Dam, with approximately 2 others located within a 2-hour response radius. Although response strategies are presented in this plan, their deployment is complex and resource intense and should be tested to determine effectiveness and improve first responder and OSRO readiness. Section 4.3 provides recommendations that may enhance response effectiveness.

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- Appendix D Summary of Equipment Trailer Contents
- Appendix E High-Occupancy Facilities
- **Appendix F** Boat Ramps and Marinas
- Appendix G Other Geographic Response Plans–Rosetta Stone

#### **List of Acronyms**

- BLM Bureau of Land Management
- BPA Bonneville Power Administration
- cfs cubic foot per second
- BNSF BNSF Railway Company
- CERCLA Comprehensive Emergency Response Compensation and Liability Act
- DEQ Idaho Department of Environmental Quality
- EPA United States Environmental Protection Agency
- EPCRA Emergency Planning and Community Right to Know Act
- ESA Endangered Species Act
- FERC Federal Energy Regulatory Commission
- ft foot
- GIS Geographic Information System
- GRP Geographic Response Plan
- ICS Incident Command System
- IDFG Idaho Department of Fish and Game
- IOEM Idaho Office of Emergency Management
- IPUC Idaho Public Utilities Commission
- IT Information Technology

- ITD Idaho Department of Transportation
- kg kilogram
- LMZ Lynx Management Zones
- mph miles per hour
- msl mean sea level
- MRL Montana Rail Link railroad
- NOS Not otherwise specified (a proper shipping name designator)
- NPCC Northwest Power and Conservation Council
- NRHP National Register of Historic Places
- NWACP Northwest Area Contingency Plan
- RPA Rathdrum Prairie Aquifer
- SCAT Shoreline Cleanup Assessment Techniques
- SCBA Self-contained Breathing Apparatus
- SHPO State Historic Preservation Office
- SR State Route
- UPRR Union Pacific Railroad
- USACE United States Army Corps of Engineers
- USFS United States Forest Service
- USGS United States Geological Survey
- WMA Wildlife Management Area

#### 1 Introduction

This geographic response plan (GRP) is an emergency planning document to guide individuals and organizations responding to hazardous material and oil spills during the initial phase of the incident. The plan suggests and prioritizes response strategies based upon the proximity of a spill to population centers and sensitive natural, cultural, and economic resources.

This GRP addresses the Lake Pend Oreille region in Bonner County, Idaho.

#### 1.1 Standardized Response Language

To avoid confusion in response terminology, this plan uses standard National Interagency Incident Management System, Incident Command System (ICS) terminology. The glossary provided in <u>Section 1000</u> <u>of the Northwest Area Contingency Plan (NWACP)</u> should be used when seeking the meaning of terms used in this plan.

#### **1.2 Emergency Notification Protocols**

#### 1.2.1 When Must Notification Take Place?

In Idaho, reportable spills are generally defined as any of the following:

- Spills of hazardous materials or oil, that enter, or threaten to enter, surface water or groundwater waterbodies of the state;
- Discharges exceeding Comprehensive Environmental Response, Compensation, and Liability Act reportable quantities.

#### 1.2.2 Who Makes Notificaiton?

Anyone can make notification to activate an emergency response. Persons causing a hazardous material spill **must** notify emergency response (9-1-1) if they cannot immediately contain and control the spill or exceed Idaho or federal agency reporting requirements. For example, if a spill exceeds reportable quantity, then report to the National Response Center (1-800-424-8802) and the ID DEQ (855-647-3777). All hazardous materials incidents must be reported by the local incident commander to Idaho State Communications Center, commonly known as "StateComm," even if the local jurisdiction requires no outside assistance.

The initial notification of hazardous materials incidents should be made through the 9-1-1 emergency services system. All hazardous materials incidents will be managed using the ICS. Additional details on hazardous material spill reporting can be found in <u>Appendix A</u>.

The Idaho Hazardous Materials/Weapons of Mass Destruction Incident Command and Response Support Plan is the primary mechanism for initial response to hazmat incidents in Idaho and is part of the Idaho Emergency Operations Plan (IOEM, 2013). All hazardous materials incidents should be reported by the local incident commander to StateComm even if the local jurisdiction requires no outside assistance. Doing so enables the Idaho Office of Emergency Management (IOEM), Idaho Department of Environmental Quality (DEQ), Idaho State Police, Idaho Public Utilities Commission, Idaho Transportation Department (ITD), U.S. Environmental Protection Agency (EPA), Federal Bureau of Investigation, and other state/federal agencies to perform their regulatory responsibilities concerning public health and responsible parties, including the owner, user, site operator, shipping agent, carrier, or others in whose custody the material has been placed. Reporting hazardous material incidents to StateComm also fulfills state reporting requirements as established by the Emergency Planning and Community Right-to-Know Act and the Idaho Hazardous Substance Emergency Response Act (IOEM, 2013).

A comprehensive list of agency and emergency contacts is provided at the beginning of this document.

#### **1.2.4 Hierarchy of Emergency Planning Documents**

This GRP supplements other emergency planning documents.

- The Idaho Emergency Operations Plan (IOEM, 2015) is an all-discipline, all-hazard plan that delineates lines of authority and responsibilities of emergency action agencies.
- The Northwest Area Contingency Plan (RRT/NWAC, 2017) is a regional plan that is required by the federal national contingency plan. The purpose of this plan is to provide a playbook for oil and hazmat responses that involve state and federal agencies. It covers Washington, Oregon, and Idaho.
- The Idaho Hazardous Materials/Weapons of Mass Destruction Incident Command and Response Support Plan (IOEM, 2013) supports the two plans above and is the primary mechanism for initial response to hazardous materials incidents in Idaho. This plan is also referred to as the "Yellow Book."
- The Bonner County Emergency Operations Plan (Bonner County, 2009) identifies the roles, responsibilities, and direction for Bonner County agencies and some volunteer organizations in responding to emergencies or disasters.

This GRP is a guidance document that provides response tactics and local information to inform and speed the initial response to a spill. It is a technical supplement to the Northwest Area Contingency Plan. This GRP is intended to be an informational resource to first responders and support personnel arriving from outside the area. It can also be used as a training tool or a resource for civic leaders and local emergency management personnel to assess spill preparedness.

#### 1.3 Bonner County Technology Resources

Bonner County has a variety of technology-based systems that can significantly enhance communications and strategy development during an emergency response. Requests for assistance from the Bonner County Technology Department should be made through the department director. Contact information is provided in the contact sheet at the front of this document. The Technology Department manages four primary areas:

- Public safety technology
- Geographic information systems
- Information technology
- Communication systems

#### 1.3.1 Public Safety Technology

The Bonner County Technology Department manages the technical resources of the Sheriff's Office and the 9-1-1 Dispatch Center, including the software, hardware, network, and communications network assets.

#### 1.3.2 Geographic Information Systems (GIS)

The GIS Team is located in the Bonner County Administrative Building on Highway 2. This team manages the geospatial data of the county and surrounding areas. The GIS Team integrates data with spatial information to enable the county's data to be visualized, analyzed, and printed spatially. The GIS Team provides support to all programs of the county that require spatial applications. The GIS Team also provides the public with geospatial data in an interactive mapping application located at https://cloudgisapps.bonnercountyid.gov/public/.

#### 1.3.3 Information Technology (IT)

The IT Team manages the network and computer assets of the county. The IT Team supports all the county users of technology with technical support and administers and operates the technology help desk system. The IT Team is responsible for the back office assets of the county that include networks and internet access, servers, routers, switches, and network storage and manages the security, access, and credentials of authorized network users.

#### 1.3.4 Communications Systems

The team manages the communication assets of the county including base/mobile/portable radio systems, repeater sites, microwave network, and telephones.

#### **1.3.5 Technology Resources for Incident Managers**

- The Bonner County Map Portal at <a href="http://maps.bonnercounty.us">http://maps.bonnercounty.us</a> provides authoritative road, parcel, and address data for incident command. The map at <a href="http://maps.bonnercounty.us/apps/public/canshow">http://maps.bonnercounty.us/apps/public/canshow</a> show all the many GIS layers in the county and allows the user to annotate a map with text and geometric shapes.
- The Bonner County Mobile Map at <a href="http://maps.bonnercounty.us/apps/mobile/">http://maps.bonnercounty.us/apps/mobile/</a> provides a basic mapping system for a smart phone or tablet that has the ability to route between two addresses, find an address, and show the location of the user on a map. It would be a key tool in an evacuation scenario because a user can see all the address points on the map relative to the user's location.

- Reverse 9-1-1: The 9-1-1 Dispatch Center has access to the Everbridge Emergency Notification System that can notify the public of an emergency within any polygon drawn on the map by the 9-1-1 dispatcher. Everbridge can send an emergency notification to any landline as well as cell phones within a given area through a Federal Emergency Management Agency program called Integrated Public Alert and Warning System.
- The web site at <a href="https://bonnercom.org/">https://bonnercom.org/</a> describes the county's public safety communication systems. For registered users, there is a frequency list and frequency technical details for all agencies operating in Bonner County including all the Bonner County public safety frequencies for all the county's repeater sites. In an emergency, request a current list from\_
   <a href="mailto:technology@bonnercountyid.gov">technology@bonnercountyid.gov</a>.
- The 9-1-1 Dispatch Center has a portable or towable 65 kilowatt Kohler 70REZGT propane threephased generator and a portable public safety radio repeater system that can be deployed anywhere in the county in an emergency. A request for use of these assets should be made through the Sheriff's Department.

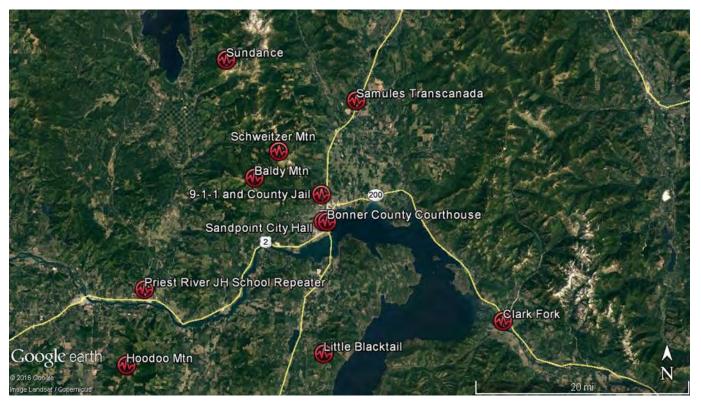
## 1.4 Emergency Radio Communications

Radio communication for emergency responders is provided by Bonner County through a series of repeaters. The repeater locations are listed in <u>Table 1-1</u> and shown in <u>Figure 1-1</u> below. Frequencies and other technical details for those repeaters can be found at <u>https://www.bonnercom.org/Current\_Sites.</u>

Emergency responders arriving from outside Bonner County who need access to this radio system should contact the Bonner County Public Safety Technology Director or the 9-1-1 Dispatch Center for specific instructions on how to link into this system.

Site Name	Longitude	Latitude
Baldy Mountain	-116.6941	48.33158
Bonner County Courthouse	-116.5472	48.27220
Bonner County Jail	-116.5586	48.30890
Clark Fork	-116.1919	48.13714
Hoodoo Mountain	-116.9536	48.08053
Little Blacktail	-116.5544	48.09406
Priest River Junior High School	-116.9175	48.18108
Samuels Transcanada	-116.4871	48.43547
Sandpoint City Hall	-116.5549	48.27186
Schweitzer Mountain	-116.6446	48.36731
Sundance	-116.7516	48.49075

#### Table 1-1: Bonner County Radio Repeater Locations



#### Figure 1-1: Bonner County Emergency Radio Repeaters Locations

## 1.5 Cell Phone Communications

Cellular telephone coverage along the main transportation corridors in Bonner County is quite complete, with the exception of the area east of Clark Fork to the Cabinet Gorge Dam at the Montana state line and beyond. A current map of the cellular phone coverage is available from the Idaho Department of Commerce at <a href="http://www.gemstateprospector.com/mapping.html">http://www.gemstateprospector.com/mapping.html</a>.

## 2 Site Description and GRP Coverage Area

This section contains topographic descriptions, physical river features, river hydrology, climate, and resources in the GRP coverage area. The intended users of this section are ICS support personnel who are arriving from outside of the North Idaho area and need to quickly learn the major features of the area. Due to the diversity of landforms, waterbodies, and ecosystems throughout the GRP coverage area—and the modification of each by climate, aspect, hydrology, geomorphology, etc.—this section should not be considered comprehensive or exhaustive. Section <u>2</u> is meant to give an overview of the GRP coverage area and readily identifiable sub-areas and provide adequate detail for response managers to make informed emergency response management decisions, in consultation with other stakeholders in the GRP coverage area.

Section <u>2</u> relies heavily on information from the Northwest Power and Conservation Council (NPCC) Intermountain Province Subbasin Plan and Pend Oreille Subbasin Plan (NPCC, 2005a-b).

# 2.1 General Description of the Natural Environment of the Intermountain Province (IMP)

The IMP, which contains the Pend Oreille Subbasin relevant to the GRP (and five others outside the GRP coverage area), is characterized by a diverse landscape ranging from 1,000 feet (ft) above mean sea level (msl) near the tailwaters of Chief Joseph Dam to 7,690 ft above msl at Illinois Peak in the headwaters of the St. Joe River. The northern and eastern boundaries lie within the Northern Rocky Mountains (NPCC, 2005a). These areas are generally characterized as alpine and subalpine forests with a decaying granitic geology (Alt and Hyndman, 1994). In the eastern portion of the province, in both the Coeur d' Alene and Pend Oreille Subbasins, the Precambrian Belt Supergroup is the predominant bedrock (NPCC, 2005a). Belt rocks are a thick layer of sedimentary sandstones and mudstones, approximately 1 billion years old (Alt, 2001). Much of the southwestern portion of the IMP is within an area known as the Palouse Hills. The Palouse Hills are a softly rounded landscape with rich, fertile, silty soils (NPCC, 2005a). Set within this farmland are areas known as scablands, with outcrops of black basalt, broad expanses of raw gravel, and dry stream channels (coulees) (Alt, 2001). This landscape was carved during the most recent ice age. About 15,000 years ago, the southern glacial fringe encroached upon the mountain valleys of northern Washington and Idaho. Glaciers dammed the Clark Fork River creating Glacial Lake Missoula. The dam broke and the lake drained catastrophically causing a torrential flood (NPCC, 2005a). This process happened several dozen times, resulting in the landscape seen today (Alt, 2001).

#### 2.2 Environmental Conditions within the Pend Oreille Subbasin

Euro-American settlement of the Clark Fork River valley and Lake Pend Oreille was accompanied by forest clearing, agricultural development, logging, introduction of nonnative species, mining, railroad construction, hydroelectric projects, and general urbanization (Entz and Maroney, 2001). Natural and human-made fires, past timber harvest activities, and dams have also heavily influenced the landscape in the Pend Oreille Subbasin (NPCC, 2005b).

In the early and mid-1900s, hydroelectric facilities within the Pend Oreille Subbasin and upstream in the Clark Fork and Flathead drainages were present or under construction (NPCC, 2005b). Facilities in Idaho and Montana—such as the Albeni Falls Dam (inside the GRP coverage area) and Hungry Horse, Kerr, and Noxon Rapids Dams (outside the GRP coverage area)—were built for hydropower, flood protection, fisheries, and recreation (U.S. Senate, 1949).

Large-scale habitat degradation occurred due to operation of Cabinet Gorge, Noxon Rapids, and Albeni Falls Dams. Upstream dams impeded sediment transport to the Clark Fork River Delta, prohibiting development of delta landforms and the protective lakeside beach. Widely fluctuating flows associated with dam operations continued to erode delta shorelines that would naturally be protected by armored streambeds during low fall/winter flows. These and other impacts have resulted in the loss of roughly 50% of functional delta wildlife habitat and ongoing losses estimated at 7.9–11.9 acres per year (NPCC, 2005b).

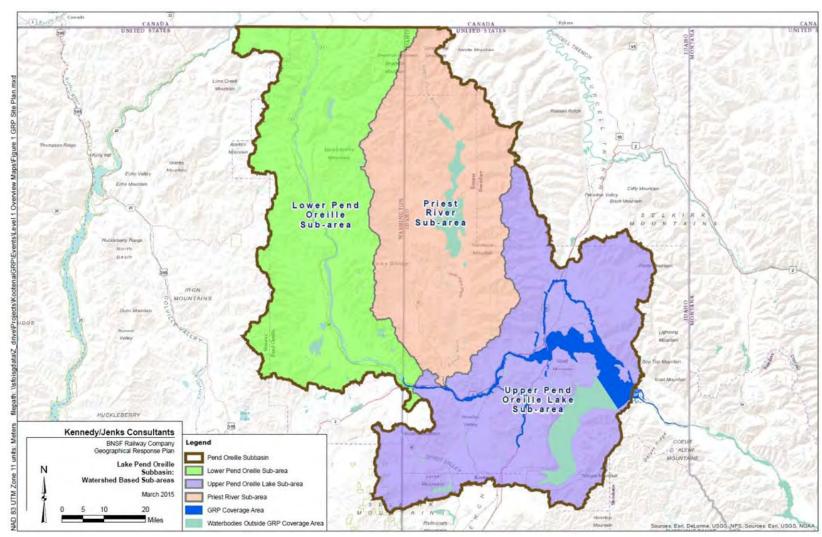
#### 2.3 Pend Oreille Subbasin Sub-Area Site Description and Physical Features

The Pend Oreille Subbasin is located in northern Idaho and northeastern Washington and represents the northeastern-most corner of the IMP. As shown in Figure 2-1, the Pend Oreille Subbasin is comprised of three sub-areas: the Lower Pend Oreille Sub-Area, the Priest Lake Sub-Area, and the Upper Lake Pend Oreille Sub-Area. This GRP addresses only the Upper Lake Pend Oreille Sub-Area, which is shown in greater detail in Figure 2-2. The Upper Pend Oreille Sub-Area encompasses the Cabinet Gorge Dam and all of Lake Pend Oreille and its tributaries located on the Clark Fork River down to Albeni Falls Dam, which is located on the Pend Oreille River.

The Pend Oreille River is the largest river in the subbasin and flows west out of Lake Pend Oreille and north across the Idaho panhandle and the northeastern corner of Washington before draining into the Columbia River in British Columbia, Canada.

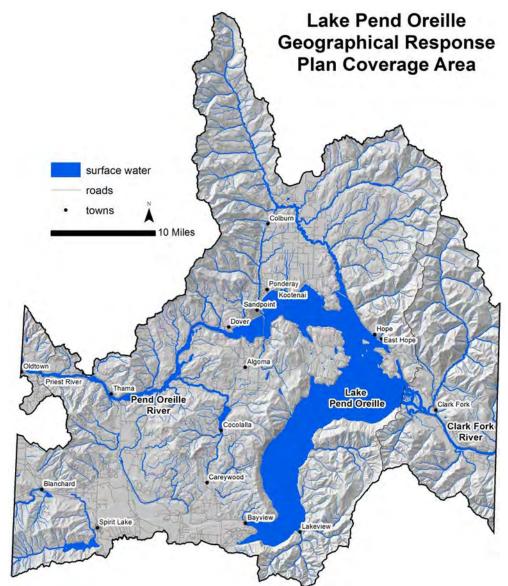
Much of the northern and eastern parts of the Pend Oreille River watershed sub-area are public lands comprising mountainous or hilly terrain deeply cut by streams and mostly forested. The broad, fertile valleys and river bottoms, predominately in the western part of the watershed, are mostly in private ownership. Near the lake and on its shore, private lands account for more than half of the ownership. The remaining land is managed by the U.S. Forest Service (USFS) (25%), the state (7%), and the Bureau of Land Management (BLM) (1.6%). Major land uses in the sub-area include agricultural and timber production and recreational development. Only 12% of the drainage is open water.

Lake Pend Oreille's elevation is regulated by Albeni Falls Dam, operated by the U.S. Army Corps of Engineers (USACE). Three major tributaries enter Lake Pend Oreille: the Clark Fork River enters the lake approximately 9.3 miles west of the Idaho-Montana border, the Pack River enters the northeastern portion of the lake, and the Priest River enters the Pend Oreille River about 5 miles upstream of Albeni Falls Dam (this portion of the river is backed up by the dam). Lake Pend Oreille is the fifth-largest natural freshwater lake in the United States.



#### Figure 2-1: Lake Pend Oreille Subbasin Watershed-Based Sub-Areas

Figure courtesy of BNSF Railroad



#### Figure 2-2: Lake Pend Oreille Geographic Response Plan Coverage Area

#### 2.3.1 Upper Pend Oreille Sub-Area Description

The Upper Pend Oreille Sub-Area is sparsely settled; Bonner County has a population of about 42,500 people. Sandpoint, the county's largest city with about 7,800 residents, and the surrounding cities and rural areas along the northern shore of the lake comprise about half the county's population (U.S. Census, 2017). In summer, an additional 5,000 people call the northern shore their home (RRT/NWAC, 2005).

The Upper Pend Oreille Sub-area drainage (approximately 1,972 square miles) encompasses all of Lake Pend Oreille and its tributaries, including 9.3 miles of the Clark Fork River upstream to Cabinet Gorge Dam,

and the Pend Oreille River and its tributaries down to the lake's control point, Albeni Falls Dam. Lake Pend Oreille is located in the Panhandle region of northern Idaho and lies primarily within Bonner County. Lake elevation is regulated by Albeni Falls Dam. Congressional authorization of Albeni Falls Dam (by the 81st Congress, 1st Session, Senate Document No. 9, February 7, 1949) requires that the Albeni Falls Dam not contribute to downstream flooding. Inflow comes through Cabinet Gorge and Noxon Rapids Dams, which are "power peaking" facilities owned and operated by Avista Utilities. During low flow (non-runoff) season, Avista operates these dams for hourly peaking, but these projects do not affect lake levels (NPCC, 2005b). The USACE operates Albeni Falls Dam, which is located on the Pend Oreille River near the Washington border.

The Pend Oreille River, prior to the construction of Albeni Falls Dam in 1952, provided free-flowing riverine habitat that supported a cold water fishery. Prior to construction of Albeni Falls and Cabinet Gorge Dams, the lower Clark Fork River supported important fisheries for migrating kokanee salmon, mountain whitefish, and bull trout. Westslope cutthroat trout were also present in the river and provided a fishery for fluvial and adfluvial fish (NPCC, 2005b). Today, the upper Pend Oreille River supports a limited warm water fishery, and the presence of salmonids is very low (Bennett and DuPont, 1993). Bennett and DuPont (1993) conducted a 2-year survey (1991 to 1992) and found salmonids (native and nonnative species) accounted for only 1.9% of all species collected in 1991 and 0.6% in 1992. Management direction is to work with USACE on lake level management to improve conditions for fish species (NPCC, 2005b).

Fish habitat in tributary streams within the Upper Pend Oreille Sub-Area has been impaired through delivery of excess bedload sediment, fine sediment delivery, loss of large woody debris and riparian forest habitat, channelization, and isolation of streams from their floodplains (PBTTAT, 1998). Human- made fish migration barriers and water diversions are scattered around the subbasin, resulting in loss of access to spawning and rearing habitat and loss of flow and migrating fish to diversions. During the summer and fall months, the lower 3.4 miles of the Clark Fork River (the headwaters of Lake Pend Oreille) are flooded by backwater from Albeni Falls Dam, creating an unproductive environment for native and introduced salmonids (NPCC, 2005b). Riverine habitat has been further compromised by Cabinet Gorge Dam and its operations, resulting in blocked fish passage, rapidly fluctuating river flows, and during high water years (such as 1997), total dissolved gas levels exceeding 150% saturation (Weitkamp et al., 2003).

Cabinet Gorge Dam presents a complete migration block to fish migrating upstream from the Clark Fork River. Steps are underway to restore fish passage as part of the Federal Energy Regulatory Commission (FERC) re-licensing process (NPCC, 2005b).

#### 2.3.2 Upper Pend Oreille Sub-Area Topography/Geography

The Selkirk Mountains to the west, the Cabinet Mountains to the north, and the Bitterroot Mountains to the east shape the Upper Pend Oreille Sub-Area. During the ancient Precambrian period over 600 million years ago, shallow seas inundated northern Idaho. Sediments of clay, silt, and sand settled out of brackish waters as seas retreated, subsequently metamorphosed, and began to fold and fault. In the last few million years, the sub-area was substantially altered by major glacial events in the late Pleistocene period. Glacial advances resulted in highly dissected watersheds with high stream density, shallow soils, and subsoil compaction of glacial tills. Groundwater seeps and springs are prevalent in tributaries draining the Cabinet

and Bitterroot Mountains to the north and east of Lake Pend Oreille, reflecting the more recent geology. The parent rocks of soils developed from the Precambrian Belt Supergroup weather to a preponderance of coarse fragments (60 to 70%), fine silts (20% plus), and a small amount of gravel and sand. When these soils are eroded by natural or human-caused agents into high gradient mountain streams (Rosgen B or steeper; Rosgen, 1994), the fine silts are transported rapidly downstream out of the system while the coarse fragments remain as bedload. This bedload is transported locally within the channel during channel-forming events (2-year discharge events). If erosion has been accelerated, the excess bedload fills pools and triggers additional bank cutting (NPCC, 2005b).

Generally, streams on the northern and eastern sides of Lake Pend Oreille tend to be more productive and have much less fine sediment than streams draining the granitic soils of the Selkirk Mountains.

Streams flowing from the Cabinet and Bitterroot Mountains are more likely to have bedload as a limiting habitat factor, whereas streams flowing from the granitic watersheds of the Selkirk Mountains may have fine sediment limiting habitat condition. Migratory fish are precluded from several tributaries, or portions of tributaries, due to natural waterfalls found throughout the basin (NPCC, 2005b).

#### 2.3.3 Upper Pend Oreille Sub-Area Vegetation

Historical vegetation patterns in the Upper Pend Oreille Sub-Area were largely influenced by wildfire. Uplands were more typically dominated by seral species in various stages of succession, with age and composition dependent largely on fire cycles, elevation, slope, and aspect (NPCC, 2005b). Low elevation riparian zones near tributary mouths include areas with and without tree canopy cover. Along stream corridors where tree overstory does not exist or is thin, vegetation includes shrubs and small trees such as thin-leaf alder, *Alnus sinuate;* willows, *Salix* spp.; snowberry, *Symphoricarpos albus;* mountain maple, *Acer glabrum;* red-osier dogwood, *Cornus stolonifera;* blue elderberry, *Sambucus cerulea;* and black hawthorn, *Crataegus douglasii.* Where tree canopy is present, tree species include black cottonwood, *Populus trichocarpa;* water birch, *Betula occidentalis;* quaking aspen, *Populus tremuloides;* and a mix of conifer species including western red cedar, *Thuja plicates;* western hemlock, *Tsuga heterophylla;* Douglas-fir, *Psuedotsuga menziesi;* grand fir, *Abies grandis;* and western white pine, *Pinus monticola* (NPCC, 2005b).

Conifer forests in the sub-area consist of mixed stands, typified by stands of western red cedar/western hemlock; stands of co-dominant Douglas-fir and ponderosa pine, *Pinus ponderosa;* and stands of Douglas-fir; western larch, *Larix occidentalis;* lodgepole pine, *Pinus contorta;* and western white pine (NPCC, 2005b). Dense stands of Douglas-fir, larch, and lodgepole are characteristic of slopes with northern and eastern aspects. Relatively open stands of Douglas-fir and ponderosa pine are typical on the warmer, dryer southern and western aspects. Representative species of upland shrubs include western serviceberry, *Amelachier alnifolia;* mountain maple; snowberry; mountain balm, *Ceanothus velutinus;* mallow ninebark, *Physocarpus malvaceus;* huckleberry, *Vaccinium* spp.; and others (NPCC, 2005b).

## 2.4 Hydrology

Lake Pend Oreille is the largest and deepest natural lake in Idaho, covering approximately 83,264 acres prior to impoundment by Albeni Falls Dam in 1952. At full pool, the lake now covers 94,794 acres (USFWS, 1953;

Hoelscher, 1993). The lake has more than 175 miles of shoreline and has a mean and maximum depth of 538 ft and 1,151 ft, respectively (Rieman and Falter, 1976). An estimated 95% of the lake's volume is held in the large, southern-most basin, a glacially influenced portion of the Purcell Trench (Savage, 1965) with a mean depth of 715 ft.

The USACE regulates the lake's elevation via operations at Albeni Falls Dam within about 11 ft, between a winter low of 2,051.5 ft above msl and a summer high of 2,062.5 ft above msl. Winter drawdown generally begins after Labor Day. Minimum pool is normally reached between November 15 and December 1, with a target date of November 15 to facilitate kokanee salmon spawning (Fredericks et al., 1995).

The Clark Fork River is the largest tributary to Lake Pend Oreille and drains a watershed of approximately 22,905 square miles (Lee and Lunetta, 1990). The river contributes approximately 92% of the annual inflow to the lake (Frenzel, 1991) and most of the annual suspended sediment load. Tributaries to the Clark Fork below Cabinet Gorge Dam include Lightning, Twin, Mosquito, and Johnson Creeks. Pack River is the second-largest tributary to the lake and is fed by a number of significant tributary watersheds, including Grouse Creek.

Melting snow produces peak flows in the Clark Fork River typically between 30 and 60 thousand cubic feet per second (cfs) in May or June. Mid-winter rain-on-snow events can result in rapid snowmelt, and in some years the peak flow from tributary watersheds occurs during these events in winter (i.e., the non-runoff season). Lightning Creek and other tributaries draining the Cabinet and Bitterroot Mountains are particularly susceptible to rain-on-snow events due to high precipitation, their location relative to the lake, prevailing winds, and the tendency for warm winter storms to pick up moisture from the lake. The Pend Oreille River is the only surface outflow from Lake Pend Oreille. The reservoir narrows to what was once the natural river channel but is now the forebay of Albeni Falls Dam. Velocities in the channel can be river-like during high flow conditions. The constricted sections of the lake flow for about 27 miles from the lake's northwest corner near Sandpoint into Washington.

## 2.5 Climate

Continental and marine weather patterns influence climatic conditions in the Upper Pend Oreille Sub-Area. Winter storms pass over the area from November through March causing a noticeably wet climate. Midwinter storms periodically bring warm air masses resulting in rain-on-snow events at middle elevations ranging between 2,500 and 4,500 ft above msl. Summer storms generally pass farther north, resulting in relatively dry seasonal conditions. Winds typically prevail from the southwest across Lake Pend Oreille.

Average monthly temperatures in the area range from 27 to 65°F. Precipitation varies widely throughout the year. November is the wettest month with a monthly average of 3.5 inches, while August is the driest with a monthly average of 0.7 inches (Weatherspark, 2017). Precipitation falls mainly as snow in the winter months, averaging 88 inches per year. The main body of Lake Pend Oreille seldom freezes in winter; however, shallow areas in the northern end of the lake form an ice cover some years.

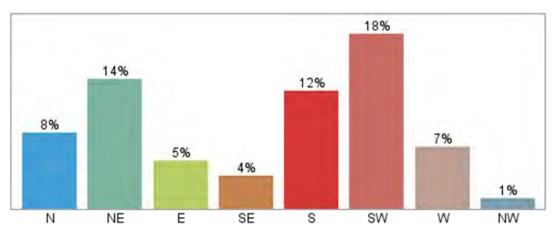
The climate in Bonner County is generally sub-humid characterized by warm, dry summers and cold, wet winters. The mountains have cooler summers and colder winters than areas in the valley (Bonner County, 2010b).

Annual precipitation in Bonner County ranges from 20 to 60 inches and the most precipitation is received in the mountains in the northwestern part of the county. The southern part of the county receives the least. The driest months for Bonner County are normally July, August, and September and correspond to the height of the wildland fire season for northern Idaho. Some rainfall normally occurs during these months, but extended dry periods can occur. Precipitation occurs year-round in the mountains, with deep snowpack accumulating during winter months (Bonner County, 2010b).

Chinook winds, which blow downslope and are warm and dry, often melt and evaporate snow. Summers in Bonner County are warm to hot in the valleys, with much cooler temperatures in the mountains. In the winter, the average temperature is 20 F and the average daily minimum temperate is 23 F. Average temperatures in the summer are 63 F and the average daily maximum temperature is 78 F (Bonner County, 2010b).

Over the course of the year, typical wind speeds vary from 0 to 13 miles per hour (mph) (calm to moderate breeze), rarely exceeding 17 mph (moderate breeze). The highest average wind speed of 5 mph (light breeze) occurs around mid-April, at which time the average daily maximum wind speed is 13 mph (moderate breeze). The lowest average wind speed of 3 mph (light breeze) occurs around mid- to late October, at which time the average daily maximum wind speed is 9 mph (gentle breeze) (Weatherspark, 2017).

The wind in Sandpoint is most often out of the southwest (18% of the time), northeast (14% of the time), and south (12% of the time) (Figure 2-3). The wind is least often out of the northwest (1% of the time) and southeast (4% of the time) (Weatherspark, 2017).





Note: Values do not sum to 100% because the wind direction is undefined when the wind speed is zero.

#### 2.6 Risk Assessment

Numerous transportation and facility-based oil and chemical threats exist in proximity to Lake Pend Oreille. U.S. Highways 2 and 95, State Route 200, and the BNSF Railway/Montana Rail Link (MRL) paralleling Lake Pend Oreille and the Union Pacific (UP) rail line paralleling Pend Oreille River are the primary spill risks. The

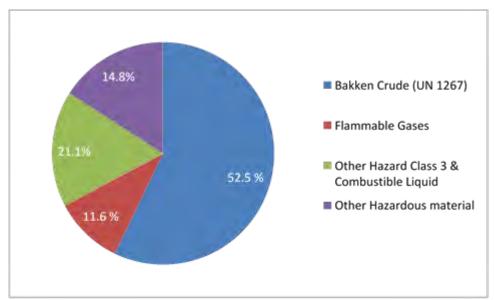
Cabinet Gorge Dam may also maintain an oil supply for normal operations. Facilities are located on the Clark Fork River approximately 8 miles upstream of Lake Pend Oreille.

#### 2.6.1 Oil and Hazardous Materials Transit in Bonner County

Numerous trains travel through the city of Sandpoint daily and many carry hazardous materials and crude oil. In 2016, three railroads provided commodity transportation information to DEQ. These three railroads combined moved significantly more than 300,000 rail cars or tank cars containing various forms of hazardous materials and crude oil. Currently, approximately 24 unit trains per week carrying crude oil from the Bakken oil fields in the Dakotas and Saskatchewan travel through Sandpoint. As such, the Bakken crude oil trains represent approximately 52.5% of the total number of hazardous material carloads traveling this area. Additionally, butane and alcohols represent about 11.6% of the total hazmat carloads. Table 2-1 and Figure 2-4 summarize the types and quantities of hazardous materials transported through Bonner County.

Table 2-1: Oil and Hazardous Material Rail Shipments in Bonner County (More than 300,000 Total Loads per Year)

Hazardous Material Rail Shipments in Bonner County per Year (2016)	Hazard Class	% of total
Bakken Crude (UN 1267)	3	52.5%
Flammable Gases	2.1	11.6%
Other Hazard Class 3 & Combustible Liquid	3	21.1%
Hazard Class 9 and other hazardous material	9	14.8%



#### Figure 2-4: Hazardous Material by Rail in Bonner County

Further analysis of the rail commodities reveals that the 20 most frequently shipped commodities comprise 97% of the total number of packages shipped. A review of the most frequently shipped commodities against

guidance from the North American Emergency Response Guidebook (US Department of Transportation, 2016) indicates the following:

- All of the top 20 hazardous materials require self-contained breathing apparatus (SCBA) as personal protective equipment, and 5 require SCBA personal protective equipment that is "specifically recommended by the manufacturer."
- 13 of the top 20 are liquid.
- 4 of the top 20 are gaseous.
- 1 of the top 20 is a solid (ammonium nitrate).
- Sulfuric acid and hydrochloric acid represent 1.1% of the total number of hazmat rail shipments. These materials are reactive and may release corrosive, toxic, or combustible gases.
- Aside from the two acids mentioned, all of the top 20 hazmat rail shipments are combustible.
- Evacuation criteria for accidents involving rail cars transporting these hazardous materials range from 0.5 to 1 mile.
- Allyl bromide comprises 2.5% of the total hazmat rail shipments. It has a specific gravity greater than 1 and will sink if spilled into a waterway.
- Alcohol NOS, sulfuric acid, hydrochloric acid, and methanol comprise 12.9% of the total hazmat rail shipments. These items are soluble in water.
- Current response trailers are set up for crude oil releases (see Section <u>4.6</u>). Collection of other materials may create hazardous and explosive environments.

A considerable amount of hazardous materials is also shipped on the highways of Bonner County. In 2010, a qualitative survey was conducted to assess the amount and type of hazardous materials flowing through the county (Bonner County, 2010c). During two separate 2-hour periods at four different locations, a total of 310 commercial vehicles were observed passing through. Of those vehicles, 35 were observed to be placarded as containing hazardous materials. <u>Table 2-2</u> lists the relative percentage of the types of materials observed. Not surprisingly, flammable liquid, such as gasoline and diesel fuel, were the largest contributors.

Hazard Class	Description	Number observed (for a 16 hour period)	Percentage
2.1	Flammable Gas	13	37.1
3	Flammable Liquid	16	45.7
5.1	Oxidizer	1	2.9
8	Corrosive	3	8.6
9	Class 9 (and Other)	2	5.7
	TOTAL	35	100

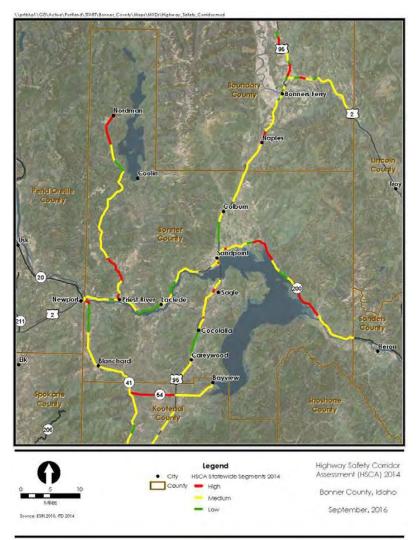
Table 2-2: Hazardous Materials by Highway in Bonner County

Since the 2010 survey was completed, mining operations in Canada have resulted in numerous truckloads of "ammonium nitrate liquid (hot concentrated solution)" (ID number 2426, Hazard Class 5.1) being transported through Bonner County. This material is very hazardous and may react explosively when heated (Cameo Chemicals, 2017).

The 2010 highway survey and recent observations result in a qualitative assessment because the survey was conducted for a short duration at one particular time of year. Seasonal variations in weather as well as commercial and recreational activities would alter the amount of fuel being delivered to or through the county. Nevertheless, the survey and observations indicate that a wide variety of hazardous materials are being transported by truck through Bonner County.

#### 2.6.2 Roadway

U.S. Highways 2 and 95 and State Route 200 are the primary roadways passing through the GRP coverage area. ITD conducted a highway safety corridor analysis for Bonner County (<u>Figure 2-5</u>). Highway 200 along the north shore of Lake Pend Oreille represents a unique challenge in that accidents are more frequent and the highway runs very close to the lake shore.



#### Figure 2-5: Highway Accident Safety Corridor Map for Bonner County

#### 2.6.3 Railroads

The topography of Bonner County has been very attractive to the railroad industry over the last one and a half centuries. Figure 2-6 shows the rail lines in Bonner County. The MRL follows the Clark Fork River and the northern shore of Lake Pend Oreille to Sandpoint. The UP railroad runs from Bonners Ferry southwards through Sandpoint and southwest toward Spokane. The UP railroad also shares trackage with the MRL. The BNSF Railway also runs south from Bonners Ferry through Sandpoint but crosses the Pend Oreille River at its junction with the lake; the BNSF line then continues south to the county line where it runs adjacent to the UP railroad before turning west towards Spokane, Washington. The Pend Oreille Valley railroad is a short line railroad operating between Newport, Washington, and Sandpoint, Idaho, along the north side of the Pend Oreille River.

Railroad accidents in Bonner County are common. Between 1995 and 2014, the last date for which data were available, the Federal Railroad Administration reported 37 unique accidents, which includes all accidents from minor mishaps to significant derailments. In the spring of 2017, at least four significant derailments occurred in Bonner and Boundary Counties near waterways. <u>Table 2-3</u> below summarizes those accidents by rail line. <u>Figure 2-7</u> and <u>Figure 2-8</u> show the location of those accidents; the north side of Sandpoint appears to be an area where accidents are more frequent.

Railroad	Number of Accidents
BNSF	13
MRL	8
UP	15
Pend Oreille Valley	1
TOTAL	37

#### Table 2-3: Bonner County Rail Accidents, 1995-2014

In fall 2016, at the request of DEQ, the four railroads provided copies of the public version of their bridge inspection reports. All bridge inspections were current in accordance with the Fixing America's Surface Transportation Act Public Law 114-94. The reports indicated that all bridges passed inspection and were "confirmed to have the capacity to safely carry traffic being operated over the bridge."



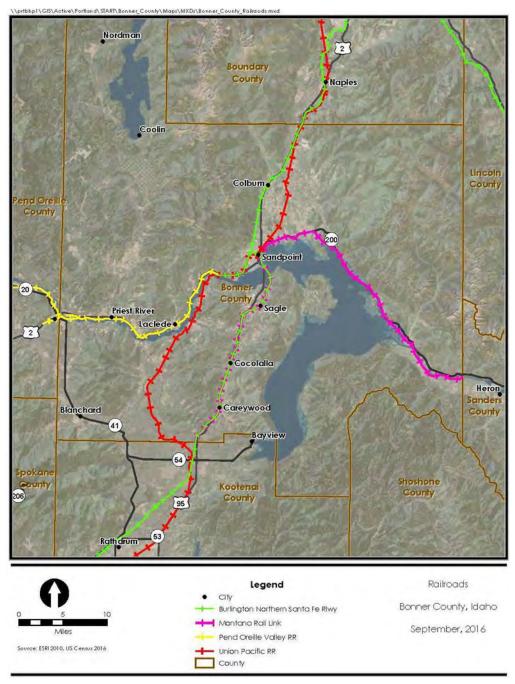
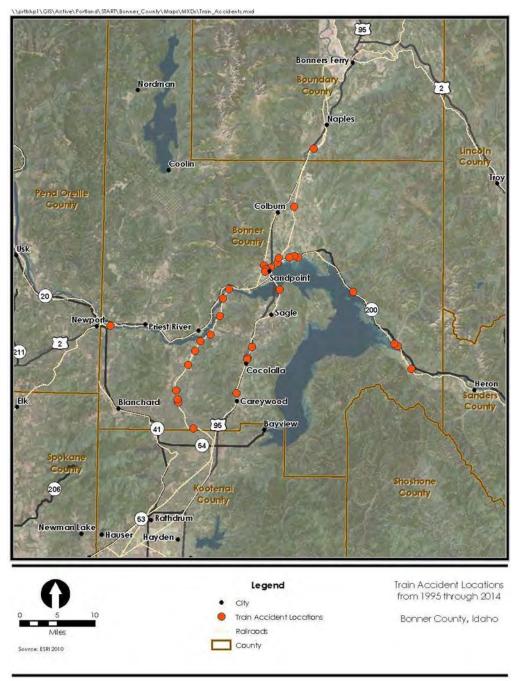


Figure 2-7: Bonner County Train Accidents (1995-2014)



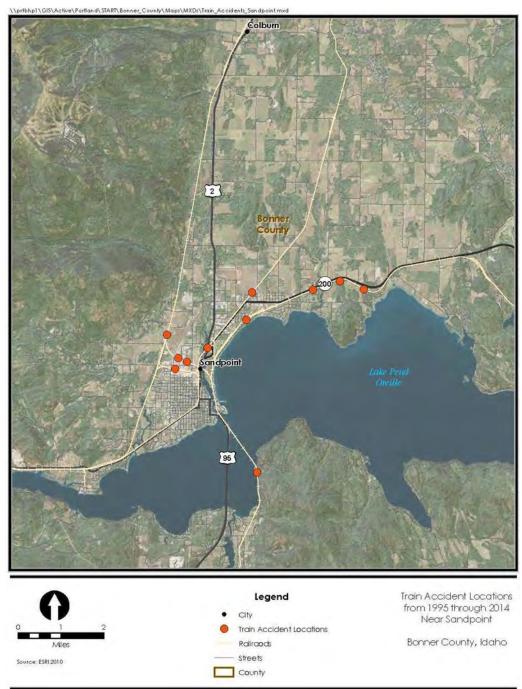


Figure 2-8: Sandpoint, Idaho, Train Accidents (1995-2014)

# **3** Response Options and Considerations

The table provided in this section correlates the type of terrain or other environmental feature with the response sectors. The response sectors are further described in Section <u>4.3.</u>

				L	ocation				
	Lake Pend Oreille GRP Spill Response Options and Considerations	Sector 1A-1B West Pend Oreille	Sector 2 Westside Fire	Sector 3A-3D Sandpoint	Sector 4A Northside (Lakeshore)	Sector 4B Northside (Selle Valley)	Sector 5 Sam Owens	Sector 6 Clark Fork	Sector 7A-7B Sagle
	Rivers	•	•		•	٠		٠	
Waterbody	Creeks			•	•	•	•	•	•
rbo	Lakes			•	•		•		•
ate	Pool Area formed by Dam							•	
≥	Wetland Area(s)	•	•	٠	•	•	•	•	•
	Intermittent Streams	•	•	•	•	•	•	•	•
se	Source Control and Containment Activities Aerial/Vessel Surveillance Activities	•	•	•	•	•	•	•	•
noc	Wildlife Rescue and Rehabilitation Activities	•	•	•	•	•	•	•	•
kesp	Shoreside Collection and Oil Recovery (Note 1)	•	•	•	•	•	•	•	•
ial R ptic	Aerial/Vessel Surveillance Activities Wildlife Rescue and Rehabilitation Activities Shoreside Collection and Oil Recovery (Note 1) Vessel-Based Skimming Operations (Note 2) Shore- or Vessel-Based Skimming Operations (Note 3) Shoreline Protection Booming (Note 4)		•	•	•		•	•	•
onti	Shore- or Vessel-Based Skimming Operations (Note 3)	•	•	•	•	•	•	•	•
ote	Shoreline Protection Booming (Note 4)	•	•	•	•	•	•	•	•
	Shoreline Cleanup Activities (Note 5)	•	•	•	•	•	•	•	•

				L	ocation.				
	Lake Pend Oreille GRP Spill Response Options and Considerations	Sector 1A-1B West Pend Oreille	Sector 2 Westside Fire	Sector 3A-3D Sandpoint	Sector 4A Northside (Lakeshore)	Sector 4B Northside (Selle Valley)	Sector 5 Sam Owens	Sector 6 Clark Fork	Sector 7A-7B Sagle
	Containment in Ditches or Outfalls (Note 6)								
	In-Situ Burning (Area is not pre-approved (Note 7)								
	High Water vs. Low Water Boat Launches	•	•	•	•		•	•	•
	Current – Ability to Boom	•						•	
	Weather Concerns – Freezing Waterway Potential and Safety of Roads	•	•	•	•	•	٠	•	•
	Shoreside Access can be Limited by Private Property	•	•	•	•	•	•	•	•
SL	State of National Wildlife Refuge/Recreation Area	•	•	•	•		•	•	
tio	Threatened/Endangered Species	•	•	•	•	•	•	•	•
erai	Public or Commercial Marina(s) in Area		•	•			•		
side	Recreational Boat Traffic	•	•	•	•		•	•	•
Considerations	Tribal Lands or Usual and Accustom Interests (Note 8)	•	•	•	•	•	•	•	•
Ŭ	Historic/Cultural District(s) in Area			•			•		
	Dam(s) in Area							•	
	U.S. Highway Corridor		•	•	•	•			•
	Oil Movement by Rail in Area	•	•	•	•	•			•
	Oil Pipeline(s) in Area								

Note 1: Shoreside Collection and Oil Recovery response options should only happen in locations where skimmers or vacuum trucks can access the collected oil.

**Note 2:** Vessel-Based Skimming response options should include enhanced skimming using a U-boom, V-boom, or J-boom configuration in waters large enough for boats to maneuver (e.g., lake, large river).

**Note 3:** Shore-Based Skimming response options should include use of fixed skimmers: weir, belt, brush, drum, or other skimmer types.

**Note 4:** Shoreline Protection Booming should include deploying response strategies (booms) to divert and collect oil off of the water before shoreline areas are impacted or deflect and exclude oil away from shoreline areas. These strategies include those published in this document (GRP response strategies), those provided in other plans (e.g., facility contingency plans), and "ad-hoc" strategies developed during the spill itself.

**Note 5:** Shoreline Cleanup options depend on safe and efficient access to spill locations and the type of river, creek, or stream bank present. Potential activities could include flooding, flushing, manual removal, vacuum, mechanical removal, sorbents, vegetation cutting, mechanical tilling/aeration, and/or sediment reworking/surf washing.

**Note 6:** A culvert block or underflow dam might be installed to aid in the recovery of spilled oil in small streams or those with intermittent flow. This strategy is used to protect downstream waterbodies such as Lake Pend Oreille and the rivers from upstream releases of oil.

<u>Note 7:</u> These areas are not pre-approved for the use of in-situ burning. Refer to the Northwest Area Contingency Plan for the in-situ burn policy. The use of in-situ burning would require incident approval from EPA, the Department of the Interior, and the National Oceanic and Atmospheric Administration.

**Note 8:** This sheet doesn't represent all locations where Tribes and Tribal Nations have lands or areas of specific interest (including lands established by treaty or rights to Usual and Accustom areas). Early coordination with tribal governments is highly recommended during a response, regardless of the spill location or potential impact areas.

## 4 **Response Strategies and Priorities**

This section provides information on GRP response strategies and the order (priority) they should be implemented, based on potential spill origin points and their proximity to sensitive resources. The primary intended audience of this section is responders who will deploy physical responses at the accident area. Area maps, sector maps, and information on staging areas and boat launch locations are also provided in this section. During a spill incident, GRP response strategies should be implemented as soon as possible.

Unless circumstances unique to a particular spill situation dictate otherwise, the priority tables in Section <u>4</u> should be used to decide the order that GRP strategies are deployed. The downstream movement of spills and the time it takes to mobilize response resources to deploy GRP strategies must always be considered when setting implementation priorities. Information on resources at risk and sensitive areas can be found in Section 6 of this plan. Information on shoreline countermeasures can be found in Section <u>5</u> of this document and in the Northwest Area Shoreline Countermeasures Manual (NWACP Section 9420, available at <a href="http://www.rrt10nwac.com/NWACP/Default.aspx">http://www.rrt10nwac.com/NWACP/Default.aspx</a>).

The GRP strategies provided in this section have been created to reduce a spill's impact on sensitive resources. They do not include everything that should or could be done during a response to lessen the chance of injury to natural, cultural, and economic resources at risk from spills. Although designed to be implemented during the initial phase of a spill, GRP strategies may continue to be used throughout a response at the discretion of the incident commander or unified command.

# 4.1 On-Site Considerations

## 4.1.1 Before Deploying a GRP Strategy (Questions to Ask)

- Are conditions safe? Response managers and responders must first determine if efforts to implement a response strategy would pose an undue risk to worker safety or the public, based on conditions present during the time of the emergency. No strategy should be implemented if doing so would threaten public safety or present an unreasonable risk to the safety of responders.
- Has initial control and containment been sufficiently achieved? Source control and containment of the spill at or near the source of a spill are always higher priorities than the deployment of GRP response strategies, especially when concurrent response activities are not possible.
- How far downstream or out into the river environment is the spill likely to travel before response personnel will be ready and able to deploy GRP response strategies?
- Are permits required? Contact the DEQ regional administrator in Coeur d'Alene for guidance. Additional information can be found in the NWACP Permit Summary Table (<u>NWACP Section 9401</u>).
- Will equipment or vehicles need to be staged on or near a roadway? If so, traffic control may be required.

### 4.1.2 During Strategy Implementation (Things to Remember)

- On-scene conditions (weather, currents, lake level, waves, river speed, and debris) may require that strategies be modified to be effective. Weather and conditions experienced at a particular strategy location during an actual spill event will likely be different from those when data were gathered during field visits. Response managers and responders must remain flexible and modify the strategies provided in this section as needed to meet the challenges experienced during an actual response.
- Certain strategies may call for access points or staging areas that are not easily reached at all times
  of the year or in all conditions. Lake water levels factor heavily into the ability to access anchor
  points for booming.
- Oil containment booms must be free of twists, gaps, and debris in order to remain effective.
- The GRP response strategies provided in this section were designed for use with persistent heavy oils that float on water and may not be suitable for other petroleum products or hazardous substances.

### 4.1.3 After Strategy Implementation (Things to Understand)

- Oil containment booms should be maintained and periodically monitored to ensure effectiveness. Changes in river or current speed will likely require modifications to boom deflection angles (see additional discussion in Section <u>4.2.2</u>). Depending on conditions, some booming strategies may require around-the-clock tending.
- Although designed for implementation during the initial phase of an oil spill, GRP strategies may continue to be deployed and implemented throughout the entire lifespan of a response, as deemed appropriate and necessary by the incident commander or unified command.

# 4.2 Hydrologic Considerations

### 4.2.1 Hydrographs for Rail Adjacent GRP Waterbodies

The water level on Lake Pend Oreille varies between its low pool level of 2,051.5 ft and the upper level of 2,062.5 ft. The level is actively managed by the USACE to control flood waters from spring runoff as well as for power generation and recreational needs. Figure 4-1 shows a probability chart of the water level as measured at the Hope Gage station on the north side of the lake (USACE, 2016).

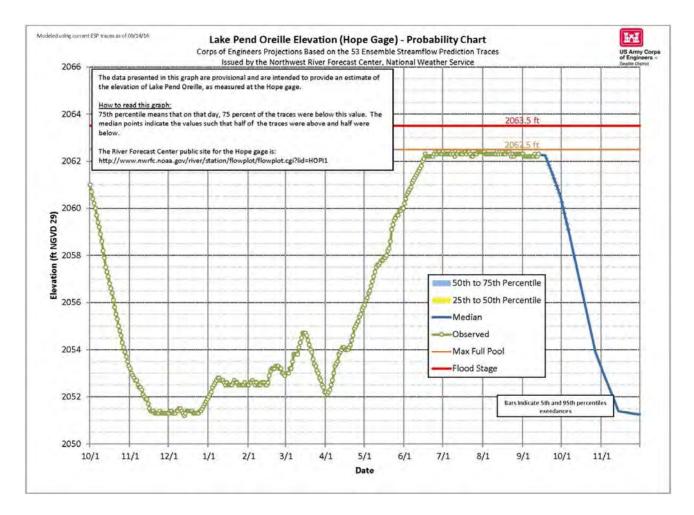
Inflows to Lake Pend Oreille from spring runoff are highest in May and June. The Clark Fork River dominates the spring flow and is managed at the Cabinet Gorge Dam. The Pack River, Lightning Creek, and Trestle Creek, all on the north side of the lake, are also significant contributors.

Current and historical stream flow information is available from the USACE Albeni Falls Dam website (<u>http://www.nwd-wc.usace.army.mil/nws/hh/www/index.html</u>). Current stream flow gaging stations are also reported by the U.S. Geological Survey (USGS). From upstream to downstream, USGS gaging stations

include the following (click the name to open the gage- specific web page):

- USGS 12391950 CLARK FORK RIVER BELOW CABINET GORGE DAM
- Peak flows of about 55,000 cfs usually occur between May and June and drop throughout the summer. Flows are directly controlled by snowmelt and upstream dam operations. During low flow periods, discharges from the dam can be as low as 6,000 cfs but can vary widely; increases to over 32,000 cfs with subsequent reductions to 6,000 cfs are commonly observed within a single day. This will affect the wetted area of the riverbank.
- USGS 12392000 CLARK FORK AT WHITEHORSE RAPIDS NR CABINET
- Peak flows of about 55,000 cfs usually occur between May and June and drop throughout the summer. Flows are directly controlled by snowmelt and upstream dam operations.
- USGS 12392155 LIGHTNING CREEK AT CLARK FORK
- Peak flows of about 1,200 cfs usually occur between May and June and drop throughout the summer. Flows are directly impacted by snowmelt. Lightning Creek is a tributary of the Clark Fork River and crosses under the MRL-operated track to the north.
- USGS 12392300 PACK RIVER NR COLBURN ID
- Peak flows of about 1,200 cfs usually occur between May and June and drop throughout the summer. Flows are directly impacted by seasonal snowmelt.
- USGS 12395500 PEND OREILLE RIVER AT NEWPORT WA
- Peak flows of about 60,000 cfs usually occur between May and June and drop throughout the summer. Flows are directly controlled by snowmelt and downstream dam operations.
- USGS 12393000 PRIEST LAKE AT OUTLET NR COOLIN ID
- Peak flows (as measured by gage height, not cfs) typically occur from May to October. Priest Lake is
  regulated to hold lake at levels desirable for recreation interests during summer months, and
  storage is released for power use downstream during winter months.
- USGS 12395000 PRIEST RIVER NR PRIEST RIVER ID
- Peak flows of about 6,000 cfs usually occur between May and June and drop throughout the summer. Flow is partly regulated by Priest Lake.

### Figure 4-1: Lake Pend Oreille Elevation (Hope Gage) – Probability Chart



### 4.2.2 Stream Velocity Ranges

Stream velocity data are not available from any of the gages above. Water speed drift measurement data in <u>Table 4-1</u> can be used to calculate river velocity/speed in ft per second or miles per hour. Velocities in miles per hour or nautical miles per hour (knots) need to be verified at several locations, as they are subject to change based on the configuration of the riverbed channel and variability in river discharge volumes.

#### Knot = 1.6 mile/hr or 6,080 ft/hr or 1.7 ft/sec

The table uses the time for floating debris to drift 100 ft, which is accurately determined by anchoring a line with two floating buoy markers attached at a spacing 100 ft apart. Floating debris is then thrown into the water approximately 20 ft upstream of the first buoy marker, and the time it takes the debris to transit the distance between the two marker buoys is recorded in seconds. This measurement assumes that the minimum escape velocity under a boom perpendicular (90 degrees) to the current is 1.2 ft per second. The table provides an estimate of the length of boom required for deflecting oil at a specified angle for a 110

foot profile (perpendicular length) to the current. It also provides an estimate of the number of anchors or shoreline tiebacks required for that length of boom assuming anchor points are required every 50 ft.

Time to Drift 100 ft (seconds)	Velocity (ft/sec)	Max. Boom Deflection Angle (degrees)	Boom for 100 Foot Profile to Current (ft)	Anchorsif Placed Every 50 Feet (number)
6	16.7	4.0	1,429	30
8	12.5	5.4	1,071	22
10	10.0	6.7	857	18
12	8.3	8.0	714	15
14	7.1	9.4	612	13
17	5.9	11.4	504	11
20	5.0	13.5	429	10
24	4.2	16.3	357	8
30	3.3	20.5	286	7
40	2.5	27.8	214	5
60	1.7	44.4	143	4
>86	<1.2	90.0	100	3

Table 4-1: Water Speed Drift Measurement Data and Boom Angle Considerations

### 4.2.3 River Hazards

Although the Clark Fork River between the Cabinet Gorge Dam and Lake Pend Oreille is not commonly known for whitewater rapids, some key hazards do need consideration. At and below the confluence of Lightning Creek and the Clark Fork, large boulders and rocky debris washed in from Lightning Creek can create unusual hydraulics that are dependent on lake elevation and river flows. Additionally, large standing waves originating from dam discharges may be present below the Cabinet Gorge Dam.

A debris collection weir extending across the Clark Fork River (latitude 48.145820, longitude -116.202927), southeast of the City of Clark Fork, is used to deflect large woody debris in the river to the Clark Fork drift yard. The primary purpose of this weir is to prevent logs from hampering navigation in Lake Pend Oreille.

Responders intending on boating the Clark Fork River should scout these areas and consult local resources regarding current river navigation conditions.

### 4.2.4 Current Weather Conditions

Weather conditions on Lake Pend Oreille can vary dramatically from one moment to the next. Local wind conditions on the lake may be considerably different than conditions reported at the airport or other nearby weather stations. The long 34-mile fetch between Bayview at the southern end of the lake and Hope on the north can cause the buildup of very large waves, which could make boom deployment particularly hazardous.

In the event of a significant spill, the incident commander may request specialized assistance from the National Weather Service (see contact sheet). Additionally, <u>Table 4-2</u> lists several sources of local weather

conditions. Boaters from outside the area are encouraged to seek additional local weather wisdom from the Bonner County Sheriff Marine Patrol or U.S. Coast Guard Auxiliary (see contact sheet).

Table 4-2: Current Weather Condition Resources

Resource Name	Location	Link
National Oceanic and Atmospheric	Spokane,	http://www.wrh.noaa.gov/etx/
Administration – National Weather Service	WA	
Windbag Marina	Sandpoint,	https://www.nwd-
	ID	wc.usace.army.mil/nws/hh/www/index.html
		Then select "Albeni Falls Dam", then "Windbag
		Marina"
Hope Weather	Hope, ID	https://www.nwd-
		wc.usace.army.mil/nws/hh/www/index.html
		Then select "Albeni Falls Dam", then "Windbag
		Marina"

# 4.3 Regional Area Maps

<u>Appendix B</u> provides maps depicting the Pend Oreille River and Lake Pend Oreille Regions. Each region is subdivided in geographic sectors. Hyperlinks are embedded in the sectors that lead to more detailed maps and tables and individual strategies. Listed below are the seven sectors, which largely correspond to the Bonner County fire districts. These items are hyperlinked to the corresponding start of the sector in <u>Appendix B</u>.

- Sector 1: West Pend Oreille Fire District
- Sector 2: Westside Fire District
- Sector 3: Sandpoint/Selkirk Fire District
- Sector 4: Northside Fire District
- Sector 5: Sam Owen Fire District
- Sector 6: Clark Fork Fire District
- Sector 7: Sagle Fire District

### 4.3.1 Clark Fork Delta

As described in Sections 2 and 6, the Clark Fork Delta is a unique ecosystem and has cultural significance for the Kalispel Tribe and Coeur d'Alene Tribe. Due to the complex labyrinth of the estuary and difficult access, spill response will be particularly challenging. Spills upstream of the Cabinet Gorge Dam would be addressed by strategy SR200 62.95 and largely caught in the dam area. Spills between the Cabinet Gorge Dam and the City of Clark Fork, which is about 7 miles downstream, may be addressed by the booming strategy for the Clark Fork Bridge (SR2—56.05) and tested in September 2017. Spills downstream of this point may be addressed by applying booms to the shear boom (i.e., debris diversion weir [Clark Fork Driftyard Boat Launch Strategy SR200 51.69] and Johnson Creek Collection [Strategy SR200 55.30]).

The travel time for a plume in the Clark Fork River to reach the delta is dependent upon the location of the spill, the amount of spilled material, the type of material spilled, and water flow. <u>Appendix C</u> provides the results of an analysis that shows the travel time between the Cabinet Gorge Dam and the delta could range between 1 and 4 hours.

As shown in Figure 4-2, several booming options are suggested based upon water level. During periods of low river flow, typically between late June and early April, the Clark Fork Bridge (SR200 56.05) or Clark Fork Driftyard Boat Launch SR200 51.69, may be feasible. About 1 mile separates the two strategies. Of these two strategies, the Clark Fork Bridge is preferable for the following reasons:

- Easier river access
- Ability to anchor boom to permanent structures in the stream bed
- Not adversely affected by potential runoff from Lightning Creek.

High river flows may preclude safe installation of boom across the river at either Johnson Creek Collection strategy or the Clark Fork Bridge. In these cases, deflection boom could be attached to the log debris diversion weir in several location. The debris diversion weir extends approximately 16 inches below the water surface. Boom should be applied on the upstream side of the log structure to prevent oil contact. Deflection boom located further downstream would deflect spilled material to collection boom located near the Driftyard Boat Launch as shown in Figure 4-3.

The effectiveness of the Clark Fork Driftyard Boat Launch strategy may be hampered by:

- Long length of boom needed (up to 8,850 feet of boom)
- Large number of swift water oil spill technicians needed
- Current lack of permanent anchor points in the channels below the log debris diversion weir
- Current deteriorated condition of the lag debris diversion weir
- Swift moving water during periods of high flow, such as spring runoff
- Poor boat access.

The response community should test these strategies and evaluate these factors with consultation from the local response community, Idaho Fish and Game (IDFG), the Kalispel Tribe, Avista Dam Operations, and USACE to evaluate the safety and efficacy of this strategy deployment.

#### Recommendations

The strategy for the Clark Fork Delta (Strategy SR200 55.3) represents the last opportunity to protect the delta and Lake Pend Oreille from a spill in the Clark Fork River. Future spill response preparations should consider the following enhancements that would facilitate spill response safety and effectiveness.

- Installation of a cable anchors from the Clark Fork auto bridge or railroad trestle that could be lowered to the water level for attachment of collection booms
- Installation of permanent anchor points on the riverbanks near the Clark Fork auto bridge or railroad trestle
- Installation of permanent anchor points that would be integrated with the shear debris diversion weir

- Caching of additional boom in the City of Clark Fork
- Additional training of the Clark Fork and Sam Owen Fire Departments for swift water boom deployment
- Staging of an appropriately equipped jet boat in the City of Clark Fork for use at the Driftyard boat ramp
- Construction of an additional boat ramp near the Clark Fork Bridge

**Safety Note:** As of June 2017, the log debris diversion weir is in a state of disrepair. Emergency responders should use extreme caution to avoid getting sucked under the structure or pinched between a boat and the structure. The surface of the structure may be slippery, and due to the buildup of vegetation, weak points in the walking surface may not be visible; walking on the structure should be avoided.

**Cultural Note:** Certain areas in the Clark Fork Delta have special significance to the Kalispel Tribe. Oil spill responders should contact USACE, the State Historic Preservation Office (SHPO), and the Kalispel Tribe for guidance on the placement of boom anchors; see the notification information at the beginning of this document for contact information.

### 4.3.2 Denton Slough

Denton Slough is also a unique and valuable wetland that hosts significant cultural resources. Several booming strategies are depicted in <u>Appendix B</u>, Sector 5, SR200 50.4, and additional information is provided in <u>Table 4-3</u>. The booming strategy selected is a function of the water level and the location of the spilled material. If the spilled material originates from the slough itself, then the boom should be located as shown for Option A in <u>Figure 4-4</u>. This will mitigate the flow of contamination to Lake Pend Oreille.

If the contamination originates in Lake Pend Oreille, then a boom located as shown for

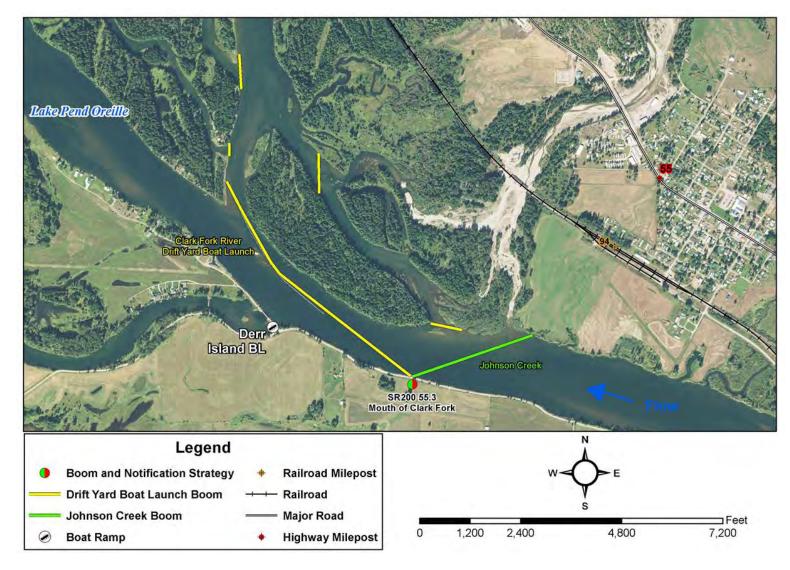
Option B, will mitigate contaminant migration into the slough. This option requires an in-water anchor for the west side.

At low water, the slough is largely a mud flat and boat access is extremely difficult. The water channel is located on the west side of the slough, as depicted in <u>Figure 4-4</u>. During low water conditions, a short boom across the water channel may mitigate contaminant migration into or out of the slough. However, anchoring the boom could be problematic due to soft mud and shallow water access.

Due to the presence of cultural resources in this area, oil spill responders should contact the USACE, SHPO, and the Kalispel Tribe for guidance on the placement of boom anchors (see contact sheet).

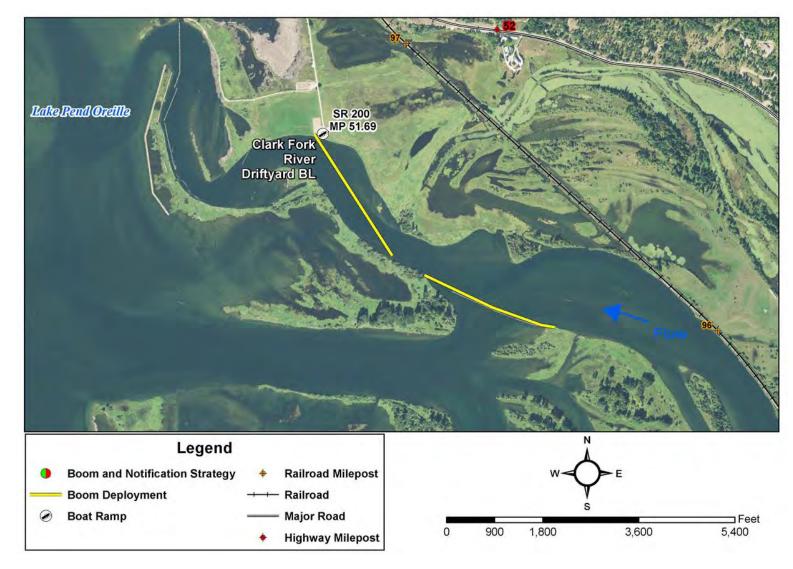
**Safety Note:** Emergency responders should use caution in this area to avoid getting themselves or their boat stuck in the mud.

#### Figure 4-2: SR200 55.3 Mouth of Clark Fork Booming Options



Lake Pend Oreille GRP

#### Figure 4-3: SR200 55.3 Mouth of Clark Fork Booming Options Drift Yard Area



Lake Pend Oreille GRP

#### Figure 4-4: SR200 50.4 Denton Slough Booming Options



<b>Table 4-3: Denton Slough Supplemental Information</b>
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Denton Slough	(MRL4 98.43)SR200 50.4
Implementation	Three booming options are suggested depending upon source of contamination, wind direction, and water level.
	See Section 4.3.2 for further descriptions and a larger booming photo.
	<ul> <li>Boom Option A—Secure boom to east and west shorelines to steel posts with one in-water anchor in the middle.</li> </ul>
	<ul> <li>Boom Option B—Secure east side to steel post and west side to an in- water anchor, with another in-water anchor in the middle if needed.</li> </ul>
	<ul> <li>Boom Option C for low water situations — Secure east and west sides to steel posts driven into channel bottom. Anticipate significant mud for Boom Option C.</li> </ul>
	<ul> <li>Deploy deflection boom as shown in photo below for contamination moving from the lake northwards.</li> </ul>
Field Notes	<ul> <li>No vehicle access on west side; Dormar Drive, also known as Hope School Road, is gated and does not reach the shore.</li> </ul>
	<ul> <li>Vacuum truck access is good on east side</li> </ul>
	<ul> <li>Use Clark Fork River boat ramp for access from water. No boat ramp at this location.</li> <li>4WD Access: No</li> </ul>
	Seasonal Access Only: No
	Locked Gates:
	o West side: Yes
	o East side: No
Contact Notes	For all booming options, contact USACE, SHPO, and Kalispel Tribe for boom anchor location
	limitation.

# 4.4 Priority Tables

Certain locations along the principal transportation corridors in Bonner County are more susceptible to transportation accidents. Section <u>2.6</u> shows areas in which accidents have been more frequent. This information was used to qualitatively select several hazard zones to develop a list of additional response suggestions. Seven hazard zones were identified and are shown in <u>Figure 4-5</u> and <u>Figure 4-6</u>.

For each of the seven hazard zones, <u>Table 4-4</u> lists suggested nearby boat ramps, response strategies, and needed key equipment. The order in which the strategies are deployed is dependent entirely on the location of an accident in that hazard zone; the incident commander will need to make a field judgement on which strategy to deploy first.

The hazard zones depicted in Figure 4-5 and Figure 4-6 are based on risk of highway and rail accidents, whereas the sectors described in Section 4.3 are based on fire districts. Table 4-4 correlates the hazard zones to nearby sectors and response strategies.

The boat ramps listed are generally near the hazard zone. Most boat ramps may not be practicable in low water or adverse weather conditions. Local wisdom will be the key to proper boat ramp selection. Additional discussion on boat ramps is given in Section <u>4.6.</u>

The list below provides some additional suggestions for prioritization of response activities:

- 1 Safety is always the number one priority. Do not attempt to implement a strategy or take action that will unduly jeopardize worker safety or the public.
- 2 Ensure public evacuation is considered immediately. Oil train accidents have often erupted into severe fires shortly after derailment. See the additional discussion in the Preface.
- 3 Ensure appropriate notifications have been made; see additional discussion in Section <u>1.2.</u>
- 4 Control and contain the source of the spill; mobilize resources to the spill location. Source control and containment are always a higher priority than implementing GRP strategies.
- 5 Determining the priority or order that GRP strategies should be implemented is based on the location of the spill or affected area.
- 6 As response resources become available, implement the GRP strategies.

#### In summary

Protecting human life is always the highest priority—public evacuation should be considered immediately. Control and containment of a spill becomes the next priority, followed by the appropriate response strategy. The information contained in the strategy descriptions (<u>Appendix</u> <u>B</u>) is recommended guidance, not prescriptive requirements.

Figure 4-5: Hazard Zone A

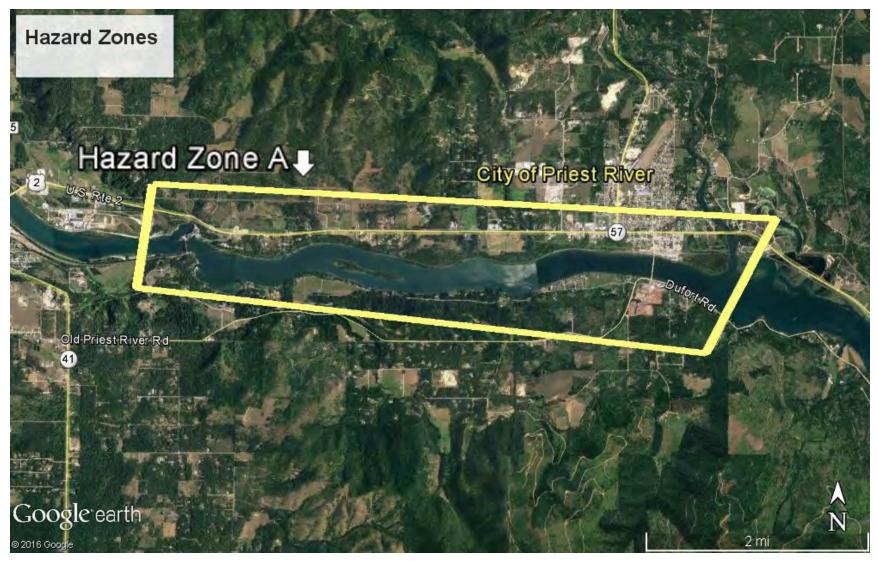


Figure 4-6: Hazard Zones B through G



Hazard Zone A	US 2 (Pries	st River)					
General Strategy Description	Open Water Col	lection and Div	version Strategies				
Staging Area Common Name	Staging Area						
Priest River City	US2 6.38						
Suggested Boat Launches	Site ID						
Priest River City	US2 6.38						
Albeni Cove	US2 2.21						
			Equipment Sum	mary			
				PP	Steel		
		Curtain		Line	Post	In Water	Jet Boat
Suggested Strategies	Site ID	Boom( ft.)	Recovery Device	(ft.)	Anchors	Anchors	Needed?
10th Outfall	US2 5.73	150	Curtain boom	200	4	1	Yes
Priest River Intake	US2 6.38	550	Curtain boom	700	4	1	Yes
Albeni Falls Rec	US2 2.21	2200	Vacuum Truck; Portable Skimmer	2,800	24	4	Yes
Albeni Falls	US2 2.19	1200	Vacuum Truck; Portable Skimmer	1,500	12	3	Yes
		4,100		5,200	44	9	
Related Sectors							
Sector 1A							
Sector 1B							

Hazard Zone B	US95 Sagl	e & Coco	llala				
Sagle							
General Strategy Description	Open Water Co	llection and D	iversion Strategies				
Staging Area Common Name	Staging Area						
Dover Bay Marina	0						
Suggested Boat Launches	Site ID						
Bottle Bay Bridge	US95 471.08						
Sandpoint City Beach	US95 473.87						
Memorial Park Boat Ramp	US2 27.9						
			Equipmer	nt Summary			
		Curtain		PP Line	Steel Post	In Water	Jet Boat
Suggested Strategies	Site ID	Boom( ft.)	Recovery Device	(ft.)	Anchors	Anchors	Needed?
Bottle Bay Bridge	US95 471.08	100	Curtain boom	150	6	0	No
Dover Intake	US2 25.63	800	Curtain boom	1,000	4	1	Yes
Dover Bay Marina	US2 25.14	200	Curtain boom	1,250	6	0	Yes
		1,900		2,400	16	1	
Related Sectors							
Sector 7B							

Hazard Zone B	US95 Sag	le & Co	ocollala				
Cocollala							
General Strategy Description	Open Water C	collection a	and Diversion Strategies				
Staging Area Common Name	Staging Area						
Lake Cocolalla	US 95 463.62						
Suggested Boat Launches	Site ID						
Lake Cocolalla	US95 463.62						
Round Lake	US95 465.12						
Morton Slough	US2 16.29						
			Equipment Su	immary			
		Curtain			Steel	In	
Suggested Strategies	Site ID	Boom(		PP Line	Post	Water	Jet Boat
Suggested Strategies Cocolalla Creek Outlet		ft.)	Recovery Device Curtain boom	(ft.)	Anchors	Anchors	Needed?
	US95 463.82	100		250	6	0	Yes
Cocolalla Loop Road Bridge	US95 463.95	50	Curtain boom	50	6	0	No
Round Lake	US95 465.11	200	Curtain boom	0	6	0	Yes
Cocolalla Creek Mouth	US2 16.06	1,000	Curtain boom	1,000	10	1	Yes
Related Sectors		1,450		1,300	28	1	
Neidled Sectors							
Sector 74							
Sector 7A Sector 7B							

Hazard Zone C	Sandpoint	: & Conv	ergence				
Sandpoint Area							
General Strategy Description	Open Water Co	llection and	Diversion Strategies				
<b>Staging Area Common Name</b> Sandpoint City Beach	<b>Staging Area</b> US95 473.87						
Suggested Boat Launches Sandpoint City Beach	<b>Site ID</b> US95 473.87						
			Equipment Su	mmary			
Suggested Strategies	Site ID	Curtain Boom( ft.)	Recovery Device	PP Line (ft.)	Steel Post Anchors	In Water Anchors	Jet Boat Needed?
Lower Sand Creek	US95 474.31	700	Vacuum Truck; Portable Skimmer	500	5	0	Yes
Mouth of Sand Creek	US95 473.91	360	Vacuum Truck; Curtain boom	450	0	0	Yes
Sandpoint Intake	US95 473.84	800	Curtain boom	1,000	0	6	Yes
Sandpoint City Beach	US95 473.87	2,000	Curtain boom	2,500	0	4	Yes
Long Bridge	US95 472.85	11,800	Curtain boom	3,000	16	15	Yes
Related Sectors Sector 3B		15,660		7,450	21	25	

Hazard Zone C	Sandpoint	t & Conv	ergence				
Convergence			a				
General Strategy Description	Diversion Strate	egies					
Staging Area Common Name	Staging Area						
Sandpoint City Beach	US95 473.87						
Suggested Boat Launches	Site ID						
Sandpoint City Beach	US95 473.87						
Memorial Park Boat Ramp	US2 27.9						
			Equipment Su	Immary			
Suggested Strategies	Site ID	Curtain Boom( ft.)	Recovery Device	PP Line (ft.)	Steel Post Anchors	In Water Anchors	Jet Boat Needed?
Sand Creek Trestle	US95 475.3	750	Vacuum Truck; Portable Skimmer	1,000	5	0	Yes
Lower Sand Creek	US95 474.31	700	Vacuum Truck; Portable Skimmer	500	5	0	Yes
Mouth of Sand Creek	US95 473.91	360	Vacuum Truck; Portable Skimmer	450	0	0	Yes
Sandpoint Intake	US95 473.84	800	Curtain boom	1,000	0	6	Yes
Long Bridge	US95 472.85	11,800	Curtain boom	3,000	16	15	Yes
		14,410		<i>5,950</i>	<b>26</b>	21	
Related Sectors			ne numerous water outfalls draining to Sand Cre				
Sector 3B			nvergence area may be blocked within the surface rground storm water drain. Once it enters Sand (				
Sector 3C		should be con	-	CIEEK, LIIEII	ine su diegies		
Sector 3D							

Hazard Zone D	SR 200 Koo	otenai					
General Strategy Description	Open Water Col	lection and Div	version Strategies				
Staging Area Common Name	Staging Area						
Sandpoint City Beach	US95 473.87						
Suggested Boat Launches	Site ID						
Sandpoint City Beach	US95 473.87						
Memorial Park Boat Ramp	US2						
Laclede	US2						
			Equipment Sum	nmary			
				PP	Steel		
Suggested Strategies	Site ID	Curtain Boom( ft.)	Recovery Device	Line (ft.)	Post Anchors	In Water Anchors	Jet Boat Needed?
Boyer Slough	SR200 33.15	200	Portable Skimmer; Vacuum Truck	300	6	0	Yes
Sandpoint Intake	US95 473.84	800	Curtain boom	1,000	0	6	Yes
			Portable Skimmer; Vacuum				
Long Bridge	US95 472.85	11,800	Truck; Absorbent Boom	3,000	16	15	Yes
Sandpoint City Beach	US95 473.90	2,000	Curtain boom	2,500	0	4	Yes
		14,000		<i>8,175</i>	22	25	
Related Sectors							
Sector 4A							

Hazard Zone E	SR 200 Tr	estle Creek	to Pack River				
General Strategy Description:	Open Water Co	Open Water Collection					
Staging Area Common Name	Staging Area						
Trestle Creek	SR200 42.59						
Suggested Boat Launches	Site ID						
Trestle Creek	SR200 42.59						
Hawkins Point	SR200 41.38						
Hope Boat Basin	SR200 44.98						
		Equipment Summary					
					Steel	In	
Suggested Strategies	Site ID	Curtain Boom( ft.)	Bacovery Device	PP Line (ft.)	Post Anchors	Water Anchors	Jet Boat Needed?
	SR200 38.69	700	Recovery Device Curtain boom	(IL.) 900	Anchors 18	Anchors 0	Needed
Pack River Bridge Pack River Trestle	SR200 38.09 SR200 40.78	300	Curtain boom	450	10	0	Yes
Sunnyside Intake	SR200 40.78	550	Curtain boom	650	0	1	Yes
Trestle Creek	SR200 42.09	950	Curtain boom		6	3	Yes
Hestie Cleek	31200 42.09	2,500		1,250 3,250		3 4	162
Related Sectors		2,500		3,230	54	4	
Sector 4A							
Sector 5							

Hazard Zone F	SR 200 Cla	rk Fork to	Норе				
General Strategy Description:	Open Water Co	llection					
Staging Area Common Name	Staging Area						
Denton Slough	SR200 50.40						
Suggested Boat Launches	Site ID						
Island View	SR200 51.63						
	SR200 49.76						
Beyond Hope	SR200 47.90						
		Equipment Summary					
					Steel	In	
Suggested Strategies	Site ID	Curtain	Recovery Device	PP Line (ft.)	Post Anchors	Water Anchors	Jet Boat Needed?
Suggested Strategies	SR200 50.4	Boom( ft.)	Recovery Device Vacuum truck & skimmer		Anchors 10	Anchors 3	Yes
Denton Slough	SR200 50.4 SR200 50.19	1,900 400		2,400 525	6		
David Thompson			Curtain boom		-	1	Yes
Kullyspell Intake	SR200 49.45	1,500	Curtain boom	1,900	6	1	Yes
Islandview Intake	SR200 48.08	550	Curtain boom	750	0	3	Yes
Red Fir Intake	SR200 46.4	900	Curtain boom	1,100	8	3	Yes
		5,250		6,675	30	11	
Related Sectors							
Sector 5							
Sector 6							

Hazard Zone G	Clark Fork	Delta					
General Strategy Description:	Diversion to co	Diversion to collection area					
Staging Area Common Name	Staging Area						
Clark Fork Drift Yard Boat Ramp	SR200 51.69						
Suggested Boat Launches	Site ID						
Clark Fork Drift Yard Boat Ramp	SR200 51.69						
Derr Island Boat Ramp	SR200 54.83						
Johnson Creek Boat Ramp	SR200 54.28						
		Equipment Summary					
					Steel	In	
Suggested Strategies	Site ID	Curtain Boom( ft.)	Recovery Device	PP Line (ft.)	Post Anchors	Water Anchors	Jet Boat Needed?
Clark Fork River Drift Yard BR	SR200 51.69	8,850	Vacuum truck & skimmer	3,000	30	Anchors 5	Yes
Johnson Creek Collection	SR200 55.30	2,000	Curtain boom	2,500	8	0	Yes
Clark Fork Dam	SR200 62.95	1,300	Curtain boom	1,700	6	2	Yes
Clark Fork Bridge	SR200 56.05	1,800	Curtain boom	2,250	6	4	Yes
Johnson Creek Trestle	SR200 54.83	300	Curtain boom	400	6	0	Yes
		14,250		9,850	56	11	
Related Sectors		-					
Sector 6							

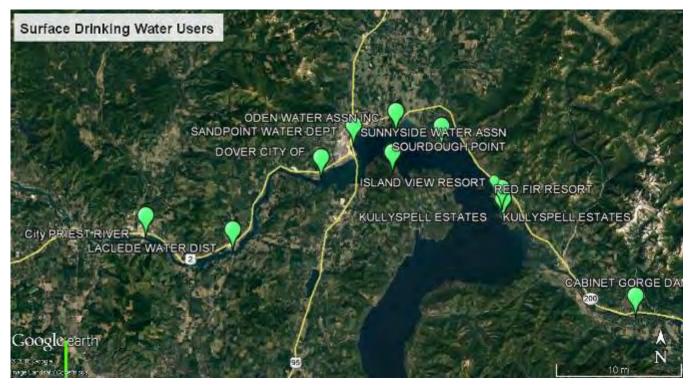
# 4.5 Water Users

Bonner County has 19 registered public water systems that obtain surface water. Of these, eleven actively draw water from Lake Pend Oreille or the Pend Oreille River. Table 4-5 lists those water users and current contact information; Figure 4-7 shows their general location. These water systems are most likely to be adversely affected by a nearby hazardous material spill. The strategy reports in Appendix B provide guidance for notifying and protecting these water systems and their sources. The remaining public water systems draw surface water from tributary streams that are not adjacent to the transportation corridors.

Bonner County also has several hundred private and public water system wells, and the list of those wells is dynamic. In the event of a hazardous material spill, the Idaho Department of Water Resources should be contacted so that they can assist in notifying nearby water users. Contact the drinking water supervisor in the Coeur d'Alene regional office at 208-769-1422.

Sector	Strategy Sheet Identifier (See Appendix B)	Public Water System Number	Public Water System Name	Administrative Contact Phone	Source Name
1A	US2 6.38	ID1090107	City of Priest River	208-448-2123	Pend Oreille River
2	US2 14.37	ID1090073	Laclede Water District	208-265-4270	Pend Oreille River
2	US2 25.63	ID1090193	City of Dover	208-755-1116	Pend Oreille River
3B	US95 473.84	ID1090121	Sandpoint Public Works Department	208-263-3407	Pend Oreille River
4A	SR200 33.15	ID1090092	Oden Water Association Inc.	208-255-4001	Lake Pend Oreille
4A	SR200 41.28	ID1090132	Sunnyside Water Association	208-265-4270	Lake Pend Oreille
5	SR200 46.4	ID1090113	Red Fir Resort	208-264-5287	Lake Pend Oreille
5	SR200 48.08	ID1090057	Island View Resort	208-264-5509	Lake Pend Oreille
5	SR200 49.45	ID1090053	Kullyspell Estates	208-290-4184	Pend Oreille River
6	SR200 62.95	ID1090012	Cabinet Gorge Dam	208-266-1531	Lake Pend Oreille
7B	US95 472.98	ID1090129	Sourdough Point	208-265-4270	Lake Pend Oreille

#### Table 4-5: Public Water Systems Drawing Surface Water from Lake Pend Oreille or Pend Oreille River



#### Figure 4-7: Public Water Systems Drawing from Lake Pend Oreille and the Pend Oreille River

## 4.6 Equipment Cache

Based on the geospatial analysis the following response equipment caches are available from industry, industry response contractors, or agencies within 2- and 6-hour<sup>1</sup> response radii of Sandpoint, ID.

20 response equipment assets are stage at 4 regional caches located within a 2-hour radius of Sandpoint, ID.
 In total, these caches represent the following equipment availabilities.

Travel Time (hr.)	Boom (ft.)	Skimmer EDRC (Gal/Day)	Dedicated Storage (Gal)
<2	~28,000	~297,000	~41,000

36 response equipment assets are staged at multiple regional caches within a 6-hour radius of Sandpoint, ID.
 In total, these caches represent the following equipment availabilities:

Travel Time (hr.)	Boom (ft.)	Skimmer EDRC (Gal/Day)	Dedicated Storage (Gal)
<6	~41,000	~498,000	~92,000

<sup>&</sup>lt;sup>1</sup> Resource response times based on 33 CFR 154, Appendix C, paragraph 2.6 land-based travel speed of 35 mph.

Appendix D illustrates the current inventory of locally and regionally available emergency response equipment and provides the locations of the individual caches summarized above. The strategy reports in Appendix B indicate the location of the nearest equipment cache (see second page, left side of each strategy report). Equipment available from the Regional Response Team 1 in Coeur d'Alene is included in the summaries above. Additional oil spill response equipment caches are located in multiple cities surrounding the Lake Pend Oreille region as identified in the NWACP Western Response Resource List (WRRL). This equipment is maintained by regional OSROs and staged at industry partner locations that are designed to be cascaded to a spill location within hours of an event.

A comparison of the inventory presented in Appendix D with the equipment needs stated in the prioritization tables (Section 4.4) reveals that the amount of boom and anchor posts available appears adequate for most anticipated needs. The needs of resource intensive strategies, such as the Clark Fork Driftyard Boat Launch (SR200 51.69) and Highway 95 Long Bridge (US 95 472.85) strategies can be met by equipment within a 2-hour radius; however, their implementation may limit the amount of equipment immediately available for simultaneous implementation of other supporting strategies in the area. Cascading of resources within the 6-hour radius would eliminate this resource limitation in time.

As depicted in the summary tables above, recovery devices such as skimmers are staged within the Lake Pend Oreille region at Sandpoint, Bonners Ferry, and Clark Fork, but additional units may need to be obtained from outside the area should more than 6 collection/recovery strategies be implemented simultaneously. Vacuum trucks are not staged within the Lake Pend Oreille region and would be available within 2-3 hours from outside the area. Table 4-6 lists some of the work boats available in the Lake Pend Oreille area that could be used to implement a hazardous material spill response.

Boat Type	Most Common Location	Owner/Contact	Additional Equipment
Uncertain	Hope Basin	Idaho Fish and Game	Uncertain
28 ft.	Coolin, ID	Bonner County Sheriff	2 ea. 225 hp engines
23 ft	Riley Creek		Single 225 hp
26 frt.	Dover, ID		Since 225 hp engine
28 ft.	Waterlife		2 ea. 225 hp engines
30 ft	Hope Basin		2 ea. 225 hp engines
30 ft.	Garfield Bay		2 ea. 225 hp engines
	(year round availability)		
18 ft	Trailerable -location varies		40 hp, low draft
24 ft.	Trailerable -location varies		Single 225 hp
2 ea. Jet Skis	Trailerable -location varies		Uncertain
Various private	Various	US Coast Guard Auxiliary	Unknown
vessels		1	
Various	Hope, ID	Kramer Marine	Unknown
Type 4 Fire Boat	Albeni Cove	West Priest Lake Fire	Unknown
27 ft. Boston	Sandpoint	Selkirk Fire Department	750 gpm fire pump
Whaler			
27 ft Jet Boat <sup>2</sup>	Albeni Cove	West Pend Oreille Fire	1,750 gpm fire pump; 26 in. draft fully loaded

#### Table 4-6: Available Work Boats for Boom Deployment

<b>Boat Type</b>	Most Common Location	Owner/Contact	Additional Equipment				
Fire Boat	Coolin-Cavanaugh Bay;		Fire boat 385 pgm pump and fire				
	Priest Lake		hose				
Fire Boat	North of the Narrows;		350 pgm				
	Priest Lake		400 ft 2.5-in. hose				
			200 ft. 1.5-in. hose				
			400 ft. 1.4-in. wildland hose				
			400 ft. 1-in. wildland hose				
1. The local Coast	1. The local Coast Guard Auxiliary has numerous privately-owned vessels that could be deployed for marine						
traffic control a USCG.	traffic control and ancilliary duties but are unavailable for boom deployment. Activation is through the ICS and						

2. As of May 2017, this boat is in disrepair.

Additionally, there are numerous recreational and sport fishing boats that could become available when requested.

## 4.7 Evacuation Considerations

One of the first considerations in response to an oil train fire is evacuating people from the effected zone. The North American Emergency Response Guidebook recommends "initial" evacuation for 800 meters (½ mile) in all directions" (US Department of Transportation 2016). This recommendation poses a unique problem for the cities of Bonner County because each city was developed adjacent to the rail lines; following the guidebook's recommendation, approximately half of each city would need evacuation, depending on the accident location. Additionally, the evacuation routes out of the city area all two-lane roadways, most notably the long bridge on Sandpoint's south side, which is a traffic bottleneck during high traffic flows.

Recent experience with crude oil train accidents indicates that the average time between a derailment and the onset of fire may be less than 20 minutes. On several occasions, the fire started immediately. Once an oil train fire starts, it is extremely difficult to extinguish and has the propensity to spread to other rails cars, the surrounding occupied facilities, and adjacent landscapes. The initial response is almost always defensive until the fire cools sufficiently to begin offensive tactics.

A further complicating consideration is the predominance of high-occupancy facilities adjacent to the railroad tracks. Appendix E provides a series of maps showing the location of high-occupancy facilities and the rail lines. The appendix also includes the name and contact information for those facilities.

In accordance with the Bonner County Evacuation and Reception Plan, the governor of Idaho is responsible for issuing mandatory evacuation orders. Voluntary evacuation recommendations are made by the Bonner County Sheriff (Bonner County 2010a), in coordination with the Bonner County Commissioners and Emergency Management. In the event of an oil train derailment, the Bonner County 9-1-1 Dispatch Center should immediately notify both the sheriff and the county commissioners; evacuation of the neighboring area should begin without delay. If resources are limited, evacuation consideration should take precedence over strategy deployment of offensive firefighting.

Due to the physical limitations of the occupants, hospitals, nursing homes, and assisted living facilities face a unique challenge in their ability to evacuate. Such facilities may need to shelter in place rather than evacuate.

Additional evacuation considerations are found in the Bonner County Evacuation and Reception Plan (Bonner County 2010a).

## 4.8 Boat Ramps and Staging Area

The Lake Pend Oreille region has at least 35 boat ramps scattered along the Clark For River, Pend Oreille River, and the lake itself. The boat ramps vary in quality and size. In addition, the usability is highly dependent on the lake's water level. The USACE controls flow at Albeni Falls Dam such that the pool level varies between 2,051 ft. and 2,062.5 ft. above msl. Figure 4-1 shows the pool level throughout the water year. Most boat ramps are unusable below a lake elevation of 2,056 ft., thus, water access to deploy a hazardous material spill response is severely restricted between mid-October and mid-May. The only two boat ramps that are reliably suitable for year-round response deployment are located at Priest River and Hope Basin. Response time from those sites to an accident location may be further complicated by wind, weather, and occasionally ice.

Appendix F provides a summary of the boat ramps and marinas, as well as their mapped locations. Each marine and boat ramp is further detailed in the appendix.

The current water level information is available from the National Weather Service Advance Hydrologic Prediction service at <a href="http://water.weather.gov/ahps2/hydrograph.php?gage=hopi1&wfo=otx">http://water.weather.gov/ahps2/hydrograph.php?gage=hopi1&wfo=otx</a>.

# 4.9 Natural Gas Pipelines

TransCanada Pipeline Company operates a natural gas transmission pipeline that runs north to south in Bonner County. The pipeline generally parallels US95 except near Sandpoint where it is located west of the city and crosses the Pend Oreille River in Dover. Figure 4-8 shows the approximate locations where the pipeline crosses a major highway or railroad track. These locations are tabulated in Table 4-7.

Map Designator	GPS Coordinates	Nearest Response Strategy Locations	Highway or Rail Crossing
A	48.500889, - 116.446502	No nearby strategy	Close proximity to US95 and rail lines
В	48.480561, - 1196.465927	No nearby strategy	Close proximity to US95 and two rail lines
С	48.4272, -116.4923	No nearby strategies	Crosses county road NF280; Two rail lines nearby
D	48.344051, - 116.547256	US95 480.44 approximately 4,800 ft. to the north	US95
E	48.320165 <i>,</i> - 116.558449	US95 478.53	West Bronx Rd. and rail line
F	48.320165, - 116.562083	US95 478.53; US95 479.99	Schweitzer Mountain Rd. and rail line
G	48.252148, - 116.62277	US2 24.33 US2 24.89	US2 and rail line
Н	48.190075, - 116.587701	No nearby strategies	US95 and rail lines
I	48.015311, - 116.655824	No nearby strategies	US95 and rail lines

In the event of a spill in any of these areas, the pipeline company should be notified that emergency action may be needed. See the contact sheet inside the front cover.



#### Figure 4-8 Pipeline Crossings with Highway and Railroad

## 4.10 Other Geographic Response Plans – Rosetta Stone

BNSF Railway and MRL have also drafter geographic response plans for the Lake Pend Oreille region. As of June 2017, the railroads have adopted the June 2017 NWACP GRP and are working to test booming strategies and upgrade equipment inventories. Use of common place names correlated with highway milepost numbers as the key designators will help emergency responders access site quickly. A cross reference table in Appendix G correlates the place names, highway and railroad all of the strategies for the Lake Pend Oreille region.

# 5 Shoreline Countermeasures

Shoreline countermeasures following an oil spill are a critical element in determining the ultimate environmental impact and cost resulting from a spill. Local response organizations and agencies have developed mechanisms for identifying shorelines requiring treatment, establishing treatment priorities, monitoring the effectiveness and impacts of treatment, and resolving problems as the treatment progresses.

The intended audience of this section is responders responsible for assessing and/or removing oil from shorelines.

The Northwest Area Committee has developed a manual and a series of matrices as tools for shoreline

countermeasure response. In addition to the following text, recent information on shoreline countermeasures can be found in the Northwest Area Shoreline Countermeasures Manual (NWACP Section 9420), available at <a href="http://www.rrt10nwac.com/NWACP/Default.aspx">http://www.rrt10nwac.com/NWACP/Default.aspx</a>. Each section of the manual has been adapted to the specific environments, priorities, and treatment methods appropriate to the planning area. These elements provide the information needed to select cleanup methods for specific combinations of shoreline and oil types.

Additionally, the National Oceanic and Atmospheric Administration has developed and maintains a Shoreline Assessment Manual, which describes the Shoreline Cleanup Assessment Techniques (SCAT) process and composition, SCAT roles and responsibilities, the methods and process for conducting shoreline assessment, and how to use the results to make cleanup decisions at oil spills. More information on shoreline assessment and the manual can be obtained at <a href="http://response.restoration.noaa.gov/oil-and-chemical-spills/oil-spills/resources/shoreline-assessment-manual.html">http://response.restoration.noaa.gov/oil-and-chemical-spills/oil-spills/resources/shoreline-assessment-manual.html</a>.

# 5.1 Pend Oreille Shoreline Types

As of 2017, shoreline-type mapping has not been completed on Lake Pend Oreille or the Pend Oreille River. Until such an effort is undertaken, a series of photographs taken in the Pend Oreille region showing example shoreline types is included. These shoreline types can be matched with the shoreline countermeasures matrix to determine appropriate cleanup response. A full list of shoreline types I provided in Table 5-1, and selected examples are provided in the photographs that follow.

The following text and photographs are in draft form and are intended to serve as a training tool for countermeasure contingency planning and implementation for shoreline areas in EPA Region 10. Shoreline countermeasure processes evolve to reflect increasingly efficient treatment techniques. Accordingly, the following information will be altered as new information is added.

Code	Lacustrine (Related to Lakes)	Riverine (Related to Rivers, Particularly Large Rivers)	
1	Exposed rocky shores	Exposed rocky banks	
1B	Exposed, solid human-made structures	Exposed, solid human-made structures	
1C	1C Exposed rocky cliffs with boulder talus base Exposed rocky cliffs with boulder talu		
2A	Shelving bedrock shores	Rocky shoals, bedrock ledges	
3B	Eroding scarps in unconsolidated sediment	Exposed, eroding banks in unconsolidated sediments	
4	Sand benches	Sandy bars and gently sloping banks	
5	Mixed sand and gravel beaches	Mixed sand and gravel bars and gently sloping banks	
6A	Gravel beaches	Gravel bars and gently sloping banks	
6B	6B Riprap Riprap		
7	Exposed tidal flats	N/A	
8A	Sheltered scarps in bedrock, mud or clay	N/A	
8B	Sheltered, solid human-made structures	Sheltered, solid human-made structures	
8C	Sheltered riprap	Sheltered riprap	
8F	N/A	Vegetated, steeply sloping bluffs	
9A	Sheltered sand/mud flats	N/A	
9B	Vegetated low banks	Vegetated low banks	
10B	Freshwater marshes	Freshwater marshes	
10C	Swamps	Swamps	

### Table 5-1: Shoreline Types and Codes

Code	Lacustrine (Related to Lakes)	Riverine (Related to Rivers, Particularly Large Rivers)		
10D	Scrub-Oshrib wetlands	Scrub-shrub wetlands		

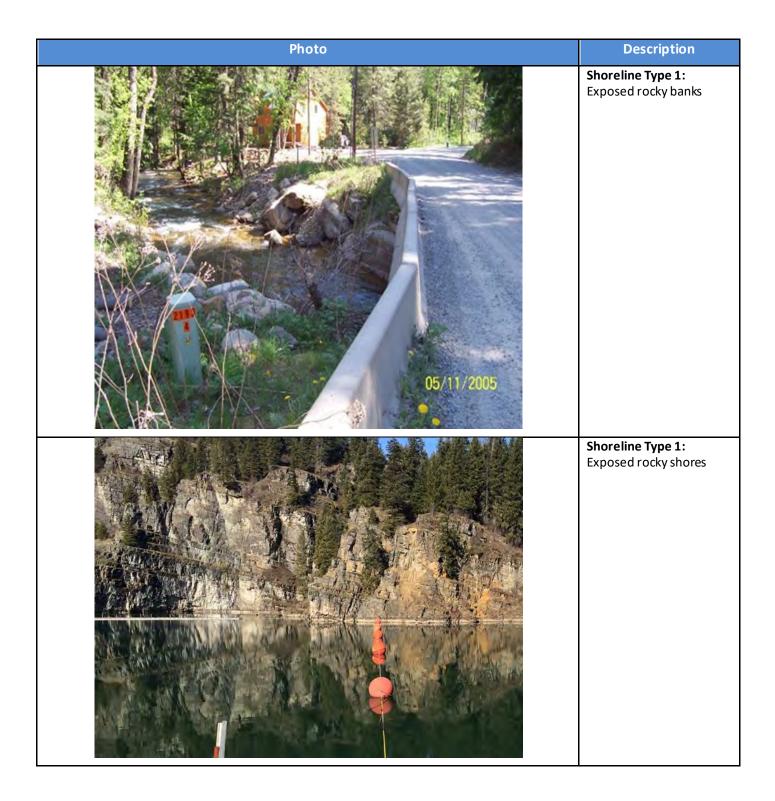


Photo	Description
<image/>	Shoreline Type 1B: Exposed, solid human- made structures
	Shoreline Type 1B: Exposed, solid human- made structures
05/12/2005	

Photo	Description
	Shoreline Type 3B: Exposed, eroding banks in unconsolidated sediments
	Shoreline Type 5: Mixed sand and gravel beaches

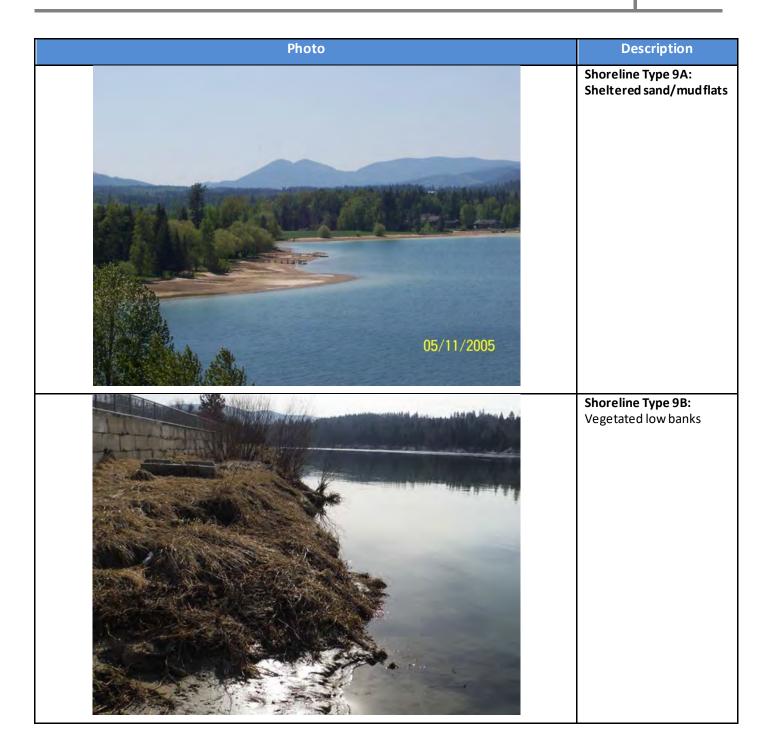
Photo	Description
	Shoreline Type 5: Mixed sand and gravel beaches
A Contraction of the second se	
05/12/2005	
	Shoreline Type 5: Mixed sand and gravel beaches
05/12/2005	

Photo	Description
	<b>Shoreline Type 6A:</b> Gravel bars and gently sloping banks
	<b>Shoreline Type 6A:</b> Gravel bars and gently sloping banks

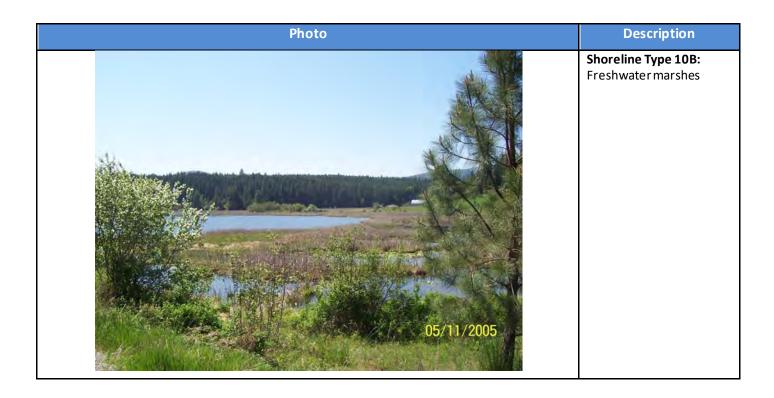
Photo	Description
	Shoreline Type 6A: Gravel bars and gently sloping banks
	Shoreline Type 6B: Riprap

Photo	Description
	Shoreline Type 6B: Riprap
	Shoreline Type 6B: Riprap

Photo	Description
	Shoreline Type 8C: Sheltered riprap
	Shoreline Type 8F: Vegetated, steeply sloping bluff







# 6. Resources at Risk

The information presented n this section provides a summary of natural, cultural/historical, and economic resources at risk in the GRP coverage area and is intended to give responders enough detail to make them familiar with key resources that may need protection in the event of spilled material release. Section 6 should not be considered a comprehensive list of natural, cultural, and economic resources in the GRP coverage area. EPA, USACE, USFS, US Fish & Wildlife Service (USFWS), BLM, US Bureau of Reclamation, USGC, IDEQ, IOEM, IDFG, Idaho Department of Water Resources, Idaho Department of Lands, Idaho Department of Health and Welfare, Kalispel Tribe, and Bonner County Emergency Management resource specialists and dam managers can provide additional information when contacted by responders.

# 6.1 Natural Resources

The GRP coverage area contains diverse landforms, waterbodies, and ecosystems heavily studied by a consortium of federal, state, tribal, local, and non-governmental entities. Description and manifest of each natural resources, such as bull trout, westslope cutthroat trout, and seasonally migratory species, may be present in the GRP coverage area for portions of the year and absent during others.

The most ecologically productive areas on Lake Pend Oreille and the Pend Oreille River are vegetated, shoreline habitats with complex morphology such as islands, marshes, and stream mouths. Notably, the Clark Fork and Pack River Deltas are considered high priority, sensitive areas to both fish and wildlife because of the complex habitat that supports high biodiversity, multiple life stages, and is the funnel point for aquatic species migrating to and from the large watersheds feeding the deltas. These deltas continue to be the focus of multimillion-dollar restoration efforts and furthermore provide public access for hunting, fishing, and recreation.

In the event of a spilled material release, emergency response managers are encouraged to engage biologists, entomologists, fisheries managers, and resource technical specialists from federal, state, tribal, and county agencies to aid in determining which natural resources may be present and where, as well as which response efforts may warrant modification to increase sensitivity to a specific resource.

# 6.1.1 Fish Habitat Descriptions

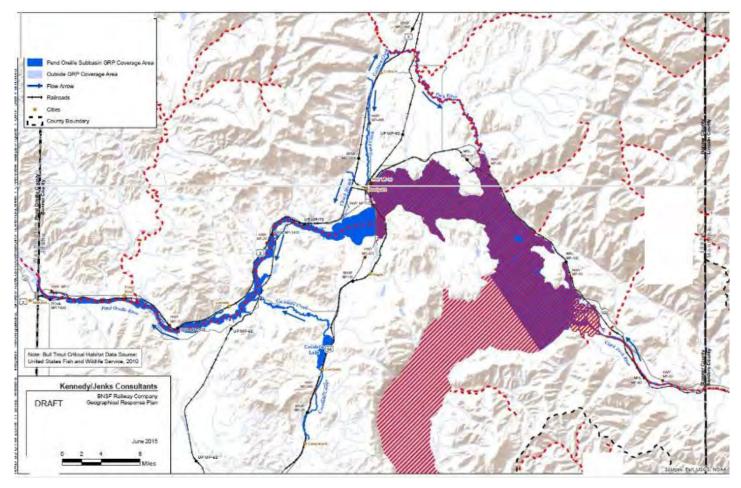
Lake Pend Oreille contains a multitude of fish habitats. The shallow, nearshore waters most likely to be impacted by a spill provide spawning, nursery, and foraging habitats. Fishers popular in these areas include bullhead (*Ameiurus melas*), crappie (*Pomoxis nigromacultaus*), perch (*Perca flavescens*), pumpkinseed (*epomis gibbosus*), largemouth bass (*Micropeterus salmoides*), smallmouth bass (*Micropetrus dolomieu*), and cutthroat trout (*Oncorhynchus clarki*) provide a popular fishery. Shoreline vegetation provides shade, water quality benefits, and insect prey. Submerged wood and rocks provide shelter from predators and additional benthic invertebrates for food. Shoreline and tributary gravel beds provide spawning habitat for kokanee (*Oncorhynchus nerka*), an economically important sport fish and ecologically key prey base for larger species from bull trout to balk eagles.

The 26-mile-long Pend Oreille River reach is a warm backwater reservoir from June through September and cold, flowing river from October through May. Artificially high water from dam operations has eliminated the natural vegetation cover along the shoreline, causing severe erosion and losses to quality fish habitat. The lower portions of Sand and Schweitzer Creeks are similarly affected by dam operations, channelization, and shoreline armoring. River inundation has improved habitat conditions for warmwater gamefish such as bass and crappie. Rainbow, cutthroat, brown and bull trout use these areas seasonally when the rivers are cold and flowing.

Pelagic (open water) habitats contain deep, cold water refugia, a large prey base including mysid shrimp (*Mysis diluviana*) and zooplankton, and migratory corridors important for genetic dispersal.

Most Pend Oreille tributaries provide cold, well-oxygenated riverine habitat preferable to native species and introduced trout. Trestle Creek, Lightning Creek, and the Pack River and tributaries are currently considered the most productive tributaries for bull trout in the GRP coverage area. The Clark Fork River, Pend Oreille River, Lake Pend Oreille, and Priest River are also federally designated critical habitat for bull trout (Figure 6-1). Late summer through fall is a particularly vulnerable time for bull trout, when adults are staging at the mouths of Jonson Creek, Lightning Creek, Trestle Creek, Strong Creek, Priest River, and the Pack River.

Cocolalla Lake contains a mixed-bag fishery including trout, crappie, sunfish, bass, catfish, suckers, and bullhead. Cocolalla Creek is known to contain brown, rainbow, and cutthroat trout along with other nongame species.



### Figure 6-1: Pend Oreille Sub-Area GRP Bull Trout Critical Habitat

# 6.1.3 Fish

Anglers are estimated to spend of \$24,000,000 per year in Bonner County (IDFG 2003). Fish in the GRP coverage area are important ecological components of the region's food web and are culturally important to local tribes and residents. Native salmonids are used as indicator species of clean, cold water.

This section addresses fish resources in the following areas: Lake Pend Oreille north of Granite Creek, Sand Creek from its confluence with Lake Pend Oreille upstream to its headwaters, Schweitzer Creek from its confluence with Sand Creek to North Boyer Road, and the Pend Oreille River from its confluence with Lake Pend Oreille downstream to the Albeni Falls Dam. Information included in this document is summarized from materials listed in the reference section.

No anadromous fish species are present in the Upper Pend Oreille Sub-Area due to hydroelectric facilities blocking fish passage. Native salmonids in the Pend Oreille watershed include bull trout (*Salvelinus confluentus*), westslope cutthroat torut (*Oncorhynchus clarkia*), pygmy shitefish (*Prosopium coulterii*), and mountain whitefish (*Prosopium williamsoni*) (BPA et al. 2014). The remaining native species are several types of minnow, sculpin, and suckers. Recreational fishery includes many additional non-native species like basses, perch, and bullheads.

Four species in the Pend Oreille system are actively managed by IDFG. These fish species consist of westslope cutthroat trout, kokanee, and bull trout. These species represent sensitive salmonid species with significant research and management focus and are discussed further below.

### 6.1.2.1 Endangered Species Act (ESA)-Listed Species

The USFWS identifies federally threatened, endangered, and candidate species that are important for protection because of their greater possibility of extinction. Specific Endangered Species Act-listed fish species are identified in Table 6-1.

### Table 6-1: Federally listed ESA Fish Species with the GRP Coverage Area

Common Name	Scientific Name	ESA Status
Bull trout	Salvelinus confluentus	Threatened

### (USFWS 2015a)

### 6.1.2.2 Westslope Cutthroat Trout

Westslope cutthroat trout (*Oncorhynchus clarkia*) are abundant throughout the Upper Pend Oreille Sub-Area. The we4stslope cutthroat trout is a federal species of concern. Cutthroat trout found in Lake Pend Oreille are adfluvial, which means they reside in the lake environment after maturity but migrate to tributary streams to spawn. The young remain in streams for 2 to 5 years then return to the lake. Spawning takes place in the spring from April to May in small tributary streams. Redds are developed in gravel and spawning occurs during the day or night. Fry emerge from the gravel in June and July. Juvenile Westslope cutthroat mature between 4 and 7 years of age. Juvenile cutthroat trout rear in their native stream. As the fish mature, some will migrate to the Lake Pend Oreille (adfluvial) or stay near their natal streams (resident). Cutthroat in Lake Pend Oreille are believed to use shoreline habitat rather than open, deep water habitat where large, predatory bull trout and lake trout occur. Cutthroat trout will be most sensitive to spill risk during the spring (April to early June) when upstream migration to headwater spawning streams may be blocked.

### 6.1.2.4 Kokanee

Kokanee (Onchorhynchus nerka), the landlocked variant of sockeye salmon, are found in large, deep lakes and

reservoirs across Idaho, including Lake Pend Oreille. Kokanee provide a major recreational fishery on Lake Pend Oreille and provide a food base for larger species from bull trout to bald eagles. Eggs are laid in the gravel low in the tributaries or along the nearshore in gravel beds. Given these spawning and incubation periods, September through June. Kokanee spawn in tributary streams or along the shore of the lake. Migration to streams takes place from September through December, where kokanee dig redds similar to other salmonids and die after spawning. Kokanee that remain in the lake spawn on the rocky bottom of the lake. In early spring, fry emerge from the gravel, with those emerging in tributary streams moving downstream to Lake Pend Oreille at night. Juvenile kokanee prefer habitat in the middle of the lake rather than near shoreline habitat. Kokanee feed primarily on zooplankton and occasionally eat aquatic insects. During the summer, they prefer deep water habitat in the lake until dusk.

### 6.1.2.5 Bull Trout

Bull trout (*Salvelinus confluentus*) are currently listed as a federal threatened species under the ESA. Native to Idaho, bull trout occur in most of the mountain creeks, rivers, and lakes of the Upper Pend Oreille Sub-Area. Most of the waterbodies within the GRP coverage area are designated as critical habitat for bull trout under ESA (Figure 6-1. Although they are widely distributed, bull trout are not abundant. The USFWS Bull Trout Recovery Plan (USFWS 2015c) identifies Lake Pend Oreille as a primary core area for bull trout recovery. Adult upstream migration of bull trout takes place in the fall. Bull trout typically spawn between September and late December, with the peak spawning occurring in October in streams with cool water and good gravel. After spawning, adults move into lake or deeper pools to rest. The eggs hatch in the winter and the small fish live in the gravel until early spring. The juveniles may remain in the stream or migrate back to Lake Pend Oreille. Juvenile bull trout feed on aquatic insects.

Once in the lake, the fish sexually mature within 4 to 6 years. Adults are predatory, eating primarily the fish eggs of other fish. Adult bull trout may spawn several times during their lives but may not spawn each year. Bull trout are primarily threatened by habitat degradation and fragmentation, blockage of migratory corridors, poor water quality, the effects of climate change, and past fisheries management practices, including the introduction of nonnative species, such as brown, lake, and brook trout (USFWS 2014).

# 6.1.3 Avian and Terrestrial Species

North American wolverine

Within the GRP coverage area, sightings or known distribution of ESA-listed species or Idaho's species of greatest conservation need consist of North American wolverine, Canada lynx, southern Selkirk Mountain woodland caribou, and grizzly bear. Of these species, none are associated with Lake Pend Oreille year-round.

_					
Common Name		Scientific Name	ESA Status		
	Canada lynx	Lynx canadensis	Threatened		
	Grizzly bear	Ursus arctos horribilis	Threatened		
	Southern Selkirk Mountains woodland caribou	Rangifer tarandus caribou	Endangered		

### Table 6-2: Federally Listed ESA Avian and Terrestrial Species with the GRP Coverage Area

### (USFWS 2015a)

The lynx, grizzly bear, caribou, and wolf may be present in the northern reaches of Bonner County but sightings adjacent to the transportation corridors of Lake Pend Oreille or the Pend Oreille River are highly unusual. Bald eagle sightings are common throughout the GRP coverage area.

Gulo gulo luscus

Proposed threatened

### 6.1.3.2 Bald Eagle

Historically, bald eagles occurred throughout the United States in large numbers. Bald eagles were once listed as endangered. Species recovery has been tracked though breeding-pair surveys, nest monitoring, and winter roost surveys. In Idaho surveys, a recovery zone in the vicinity of the Pend Oreille River and Lake Pend Oreille has shown that populations of bald eagles have increased in recent years (IDFG 2017). The Lake Pend Oreille basin is part of Eagle Recovery Zone 7, which includes the panhandle of Idaho. In 1996, a statewide nesting survey found eight nesting territories in the vicinity of Lake Pend Oreille and the Pend Oreille River. Four nesting territories located around Lake Pend Oreille include Fisherman Island, Eaton Lake, Warren Island, and Oden Bay. Nesting territories identified along the Pend Oreille River include Coolalla Slough, Morton Slough, Springy Point, and Sheepherder Point. Seven of these nests were identified as occupied and five were identified as successful in incubating eggs and fledgling young.

Nests are located in the uppermost crotch of tall trees. Bald eagles incubate eggs for 45 days, and in about 8 weeks, young fledge from the next. Eagles often migrate in the winter and roost and hunt in groups along waterways that have abundant food supplies, such as Lake Pend Oreille. Annually, large numbers of bald eagles migrate to Lake Pend Oreille to geed on spawned-out kokanee and waterfowl. The continued protection of bald eagle nesting areas and wintering habitat will allow for the continued recovery of bald eagle populations throughout Idaho, as well as the rest of the United States.

### 6.1.3.3 Canada Lynx

The Canada lynx is an ESA-listed threatened species and is on the Idaho list of species of greatest conservation need. Trapping and other data identify the lynx as occurring in Ferry, Pend Oreille, and Stevens Counties in Washington (Stinson 2001). The lynx is also present in Idaho's Kootenai and Benewah Counties (IDFG 2001) and is known to be present in the Selkirk and Cabinet muntain ranges and are known to migrate across the rail and highway corridors in Bonner County (personal communication from Kira Santari, IDFG).

The Canada lynx is closely associated with high-elevation forests, especially those dominated by lodge pole pine, subalpine fir, or Engelmann spruce (NPCC 2005a). The lynx's key ecological function is consumer (predator) of herbivorous vertebrates, primarily snowshoe hare (NPCC 2005a).

The Pend Oreille, San Poil, and Upper Columbia Subbasins overlap at least one of the six Lynx Management Zones (LMZs) or subsequent Lynx Analysis Units established by the Washington Department of Fish and Wildlife (Stinson 2001). Even though LMZs do not encompass all areas potentially used by lynx, habitat management within these zones is expected to hold the greatest promise for supporting lynx populations (NPCC 2005a).

Canada lynx habitat is not directly affected by construction of the Federal Columbia River Power System projects in the IMP. Indirect effects of the projects that have affected high elevation forests include increased timber harvest, road development, and increased hunting and recreation pressure (NPCC 2005a).

Lynx are affected by 1) prey availability – especially snowshoe hare- that is influenced by cyclic populations and habitat loss from timber harvest or insect infestation; 2) road development, which facilitates other carnivores and humans to reach formerly remote areas during winter; and 3) susceptibility to trapping, especially for kittens and yearlings (NPCC 2005a).

### 6.1.3.4 Grizzly Bear

The grizzly bear is ESA-listed as threatened and is an Idaho species of greatest conservation need. Its historical range in North America extended from the mid-plains westward to the California coast and included the states of Idaho and

Washington (NPCC 2005a).

Currently, the grizzly is known to reside in the Selkirk and Cabinet-Yaak ecosystem (IGBS 2017). Most of the Pend Oreille Subbasin is within the Selkirk Recovery Zone, and it also borders the Cabinet-Yaak Recovery Zone (NPCC 2005a).

Federal recovery efforts in the Selkirk Recovery Zone include 1) population monitoring; 2) coordinated protection enforcement; 3) selective pest control; 4) reduction in human disturbance, or land use zoning; and 5) public awareness. The primary limiting factors for grizzly bear recovery are accidental or purposeful human-caused mortality and loss of remaining habitat (NPCC 2005A).

The grizzly provides at least six key ecological functions: 1) consumer or predator of herbivorous vertebrates; 2) consumer of carrion; 3) creator of large burrows used by other wildlife; 4) controller of terrestrial vertebrate populations via predation or displacement; 5) dispersant of seeds/fruits via ingestion or caching; and 6) creator of feeding opportunities for other carnivores or scavengers. The bear has a strong and consistent relationship (direct consumer at specific states in its life history or as specific seasons) with the spawning and carcass stages of salmonid life history (IBIS 2003).

### 6.1.3.5 Woodland Caribou

The woodland caribou is listed as endangered by the federal government and is an Idaho species of greatest conservation need. Prior to 1900, this animal was distributed throughout much of Canada and the northern conterminous United States (NPCC 2005a). The species occurred in Idaho as far south as the Salmon River (Evans 1960). Presently, the last remaining woodland caribou population in the United States is restricted to the Selkirk Mountains of northeastern Washington, northern Idaho, and southeastern British Columbia (NPCC 2005a). Though Southern Selkirk woodland caribou critical habitat does not include the GRP coverage area, U.S. counties in which the woodland caribou, Selkirk Mountain population, is known to or is believed to occur include Bonner County (USFWS 2015b) but is not believed to occur near major transportation corridors.

The Southern Selkirk Mountains woodland caribou subpopulation was augmented between 1996 and 1998 with 43 caribou from British Columbia placed into Washington and immediately north of the border (Almack 2001). Caribou recovery efforts are focused on maintaining two existing herds in the Selkirk ecosystem, establishing a third herd in Washington, and managing at least 443,000 acres of suitable and potential habitat (USFWS 1993b). Managing human access, educating hunters, enforcing protective laws, and augmenting the population are also planned (NPCC 2005a).

The caribou has a general association with wetland, riparian, and upland forest habitats, especially mature or old trees with abundant lichens, and provides for at least four key ecological functions: 1) consumer of grass, forbs, and woody leaves; 2) transporter of viable seeds, spores, plants, or animals; 3) disperser of lichens; and 4) creator of woody debris fragments (NPCC 2005a).

Factors that limit caribou recovery are 1) excessive mortality – particularly for calves during their first few months – due to weather, predation, abandonment, poaching via road access, or accidents and 2) habitat fragmentation or loss, especially the continued availability of arboreal lichens (NPCC 2005a).

### 6.1.3.6 Other Species of Interest

Though not ESA-listed within the GRP coverage area, the following terrestrial species may be of interest, either due to being ESA-listed in areas surrounding the GRP coverage area, recently de-listed, or having ecological, cultural, and/or recreational importance to the GRP coverage area itself.

Waterfowl are considered a flagship species in the GRP coverage area. The waterfowl use of the GRP area typically

peaks in November and December. Waterfowl numbers have been as high as 60,000 ducks, 15,000 Canada geese, and 2,000 tundra swans. Sites that typically support thousands of waterfowl during migration in the spring and fall include Morton Slough, Oden Bay, the Pack River Delta, Denton Slough, and the Clark Fork River Delta.

Waterfowl are important game and cultural species and are closely tied to emergent wetlands and open water habitats in Lake Pend Oreille and the Pend Oreille River. Approximately 40 species of waterfowl are associated with these waterbodies. Over 30 species of greatest conservation need have been identified in the Okanogan Highlands Ecological Section, which includes the GRP coverage area. Loons, grebes, cormorants, mergansers, ducks, geese, and tundra swans are among the many migratory waterfowl that are common within the Upper Pend Oreille Sub-Area.

The northern Idaho ground squirrel (*spermophilis brunneus breunneus*) and the yellow-billed cuckoo (*Coccyzus americanus*) are federally listed threatened in Idaho but are not known to occur within the GRP coverage area (USFWS 2015b).

Other species of interest include the pygmy rabbit (*Brachylagus idahoensis*), American white pelican (*Pelecanusery throrhynchos*), ferruginous hawk (*Buteo regalis*), fisher (*Martes pennant*), northern leopard frog (*Rana pipiens*), peregrine falcon (*Falco peregrines*), sage grouse (*Centrocercus urophasianus*), sandhill crane (*Grus canadensis tabida*), Columbian sharp—tailed grouse (*Tympanuchus phasianellus columbianus*), and upland sandpiper (*Bartramia longicauda*) (*Kennedy/Jenks 2015*).

Big game may be present in the GRP coverage area, particularly in the Wildlife Management Areas (WMAs) and agricultural fields. White-tailed deer, moose, elk, black bear, and mountain lion are highly valued by hunters and prioritized for management by IDFG biologists. Furbearers including beaver, muskrat, river otter, bobcats, and raccoons are likely to utilize wetland habitats in the GRP coverage area.

### 6.1.3.7 Species Most Likely to be Affected by a Spill

The species of greatest conservation need most likely to be affected by a spill (based on habitat preferences) include the following aquatic, semi-aquatic, and riparian associated species: western toad, northern leopard frog, harlequin duck, common loon, western grebe, American bittern, black tern, olive-sided flycatcher, western pearlshell mussel, California floater, ridged mussel, and mayfly (*Ephemeralla alleni*).

# 6.1.4 Wildlife Management and Protected Habitat Areas

### 6.1.4.1 Pend Oreille Wildlife Management Area

The Pend Oreille WMA is managed by IDFG and includes numerous sub-parcels scattered throughout the GRP coverage area that are managed by IDFG. Figure 6-2 shows the approximate location of lands within the GRP coverage area that are managed by IDFG. IDFG manages approximately 6,000 acres along Lake Pend Oreille, the Pend Oreille River, the lower Pack River, and the Clark Fork River. The majority of the sub-parcels have surface water connectivity to the GRP coverage area water bodies.

The Pend Oreille WMA supports migrating and wintering waterfowl in large numbers. Tundra swans, Canada geese, American widgeon, redheads, mallards, common mergansers, common goldeneye, bufflehead, and ring-necked ducks are common. Areas of particular interest include Denton Slough for western grebe courtship displays and the Clark Fork River Delta for common loon watching (IDFG 2015a).

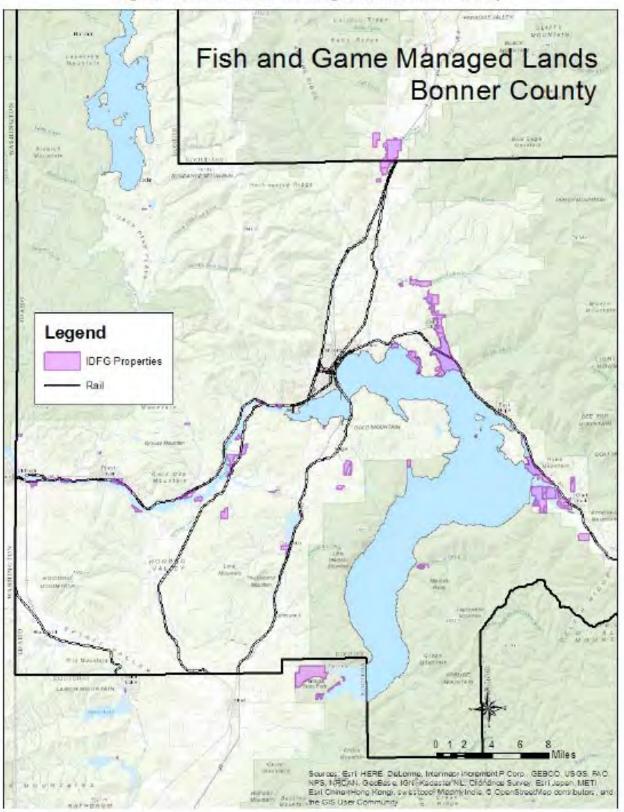


Figure 6-2: Fish and Game Managed Lands, Bonner County

Lake Pend Oreille GRP

### 6.1.4.2 National Wildlife Refuges

No national wildlife refuges are present within the GRP coverage area.

### 6.1.4.3 Albeni Falls Wildlife Mitigation Project

The Albeni Falls Wildlife Mitigation Project was developed to protect, enhance, and maintain the long-term quality of wetland and riparian wildlife habitat in the Lake Pend Oreille vicinity as ongoing mitigation for construction of Albeni Falls Dam. The long-term conservation potential for the project is primarily protecting existing high-quality wetland habitat but also includes protecting habitat with high restoration potential (NPCC 2005a).

Albeni Falls Interagency Work Group members include the IDFG, Coeur d'Alene Tribe, Kalispel Tribe of Indians, Kootenai Tribe of Idaho, USFWWS, USACE, Natural Resources Conservation Service, and USFS. The work group established priority mitigation focus areas by considering in-place/in-kind opportunities, the threat to wetland plant communities in the primary areas of impact, juxtaposition to the other management areas, and availability of protection opportunities. The work group implements projects in the Upper Pend Oreille, Lower Pend Oreille, Priest River, Kootenai, and Coeur d'Alene subbasins (NPCC 2005a).

Using Bonneville Power Administration (BPA) fund, the IDFG, in coordination with the work group, developed the Albeni Falls Wildlife Protection, Mitigation, and Enhancement Plan (Martin et al, 1988). The plan not only identified the wildlife habitat benefits and impacts associated with the construction and operation of Albeni Falls Dam, but it also identified potential areas to mitigate wildlife habitat losses. The BPA completed the Albeni Falls Wildlife Management Plan Environmental Assessment in 1996 (BPA 1996). The plan is a programmatic guide to developing wildlife mitigation projects in the Upper Pend Oreille, Lower Pend Oreille, Priest River, Kootenai, and Coeur d'Alene subbasins (NPCC 2005a).

### 6.1.4.4 Pack River Delta Restoration

The Pack River Delta is a unique wetland feature feeding into the north shore of Lake Pend Oreille. The Ducks Unlimited organization has been instrumental in coordination of its restoration. The following information was obtained from their website (Ducks Unlimited 2017):

The Pack River is the second largest tributary to Lake Pend Oreille and drains more than 185,000 acres into what was once a large and diverse mosaic of forested islands, oxbow lakes, lush wetlands, and braded river channels. The hope is that lessons learned from the Pack River project can be applied to restore the larger Clark Fork River Delta. The Clark Fork River is the lake's largest tributary.

With the construction of the Albeni Falls dam in 1955, must of the nearly 1,444 acre Pack River Delta became submerged under several feet of water for much of the summer, dramatically changing the environment in the lower delta. In total, it is estimated that the construction of the dam resulted in the loss of 6,617 acres of wetland habitat and the inundation of 8,900 acres of deep-water marsh on the lake, impacting many resident and migrating birds, particularly waterfowl. Once of the hardest his was the wintering redhead duck population, which numbers in the tens of thousands.

The goal of the restoration project was to increase the height and stability of a portion of the summertime submerged islands to improve their ability to support high-value habitat for numerous species of waterfowl and wildlife year-round. The first step was to reconstruct the islands and other physical features that once supported a system of intertwined wetlands and riparian habitats. This required moving large quantities of soil within the delta using excavators and dump trucks in sometimes challenging conditions.

Some of the native vegetation that once occupied these sites was then replaced in the form of seeds, plugs

and cuttings. Emergent aquatic vegetation such as cattail and bulrush were planted along the island shorelines, while the islands were planted with thousand of willow, cottonwood, western red cedar and redosier dogwood. To encourage settling of river sediments in the project area, some side channels were plugged with logs and stumps to replicate this important physical process. In time, this may cause the constructed islands to expand in size and additional islands to form naturally.

The project took place on lands owned by USACE and managed by IDFG. The project was completed in 2009. The lessons learned from the Pack River project were applied to restore the larger Clark Fork River Delta.

### 6.1.4.5 IDFG Clark Fork River Delta Restoration Projects

The Clark Fork River is the principal tributary to Lake Pend Oreille, and the Clark Fork River Delta is the largest area of contiguous wetland complex in the Pend Oreille system. The delta forms where the Clark Fork River enters Lake Pend Oreille, abut 3 miles west of Clark Fork, Idaho. The delta extends roughly 4 miles downriver from the town of Clark Fork and is approximately 3 miles wide where t4eh delta meets the lake. About 80% of all water entering Lake Pend Oreille is from the Clark Fork River (Clark Fork Delta Restoration Project 2016).

Shoreline erosion of the delta began with the operation of Albeni Falls Dam downstream and the two upstream dams at Cabinet Gorge and Noxon Rapids.

In conjunction with many partners and funding sources, IDFG began installing shoreline erosion control measures, installing structures to redirect local water flow, raising islands, deepening channels, establishing vegetation, and controlling weeds at the Clark For River Delta. The restoration is ongoing and is expected to reduce rates of erosion, reclaim wetland habitat, and improve habitat quality for fish, wildlife, and vegetation (BPA et al. 2014). Project work locations are indicated on Figure 6-3.

Additional discussion regarding the wetland qualities of the Clark Fork Delta are provided in Section 6.1.5.2 below.

### Figure 6-3: Clark Fork Delta Restoration Project Areas



## 6.1.5 Wetlands

The Lake Pend Oreille region has numerous wetlands that provide critical habitat to many residential and migratory species. In addition, wetlands help maintain groundwater and stream flows, store flood runoff, and nurture and sustain critical ecosystems. Wetlands are highly prized by the citizens of Idaho for their inherent habitat value as well as their recreational opportunities.

In 2005, IDFG conducted a detailed assessment of the state's wetlands. The assessment evaluated the wetland type, function and value, and threat from various pollutants and human activities. The study produced a ranking of Idaho's wetlands. Ten of the over 200 wetlands evaluated are located in the Lake Pend Oreille region, and three of those were ranked in the state's top 10 wetlands (IDFG 2005).

Figure 6-4 and Table 6-3 describe many of the wetlands in the Lake Pend Oreille region. The following paragraphs, extracted from the 2005 report, describe two of the key Lake Pend Oreille region's wetlands.

### 6.1.5.1 Hoodoo Lakes/Lambertson Lake/Kelso Lake

This wetland is located in the zone of glacial moraine deposits between the trench of Lake Pend Oreille and the outwash plains of the Rathdrum Prairie. This extensive chain of wetlands is situated in a landscape managed primarily for timber and hay production, along with extensive agricultural lands and roads. Wetlands are associated with glacial kettles, including at least six lakes, broad sedge and rush meadows (some of which are hayed), and streamside riparian areas. Although the hydrology of the wetland is altered by drainage, forested swamps and extensive peatlands are still present. These wetlands support 14 rare species, including one of only a few bristly sedge occurrences in Idaho (at Hoodoo Lake), six rare communities, and seven ecological systems. Within the site,

Lambertson Lake, a kettle lake, has the most extensive peatland and well-developed aquatic communities. Beaver, Round<sup>2</sup>, Granite, and Kelso Lakes are also included in the site because of their hydrologic connectivity and the presence of fen communities surrounding the lakes. The area has many recreation opportunities.

### 6.1.5.2 Clark Fork River Delta

The Clark Fork River forms a delta where it enters Lake Pend Oreille in a broad valley at the south end of the Cabinet Mountains and north end of the Coeur d'Alene Mountains. The numerous islands support mature western red cedar and grand fir forest, black cottonwood bottomland forest, willow and red-osier dogwood riparian shrub lands, and wet meadows. The wettest areas are dominated by marsh, while reed canarygrass (an invasive species) dominates many meadows, particularly when water levels have been manipulated. The wetlands support 15 rare species, 3 rare plant communities, and 6 ecological systems. Large numbers of migrating and wintering waterfowl (counts as high as 60,000 ducks [including 20,000 redheads], 15,000 Canada geese, and 2,000 tundra swans, as well as numerous grebe species and loons) utilize this area. Lake Pend Oreille is an important wintering area for bald eagles migrating south from Canada, with over 300 present in the delta by early December. Lake Pend Oreille is also an important nesting area for ospreys, with the greatest densities occurring in the Clark Fork River Delta. There is a high concentration of colonial nesting birds. Globally rare plant species are supported. The area has very high recreation opportunities. Agriculture as well as roads and water quality impairments are prevalent.

<sup>&</sup>lt;sup>2</sup> This Round Lake is just east of Kelso Lake and should not be confused with Round Lake State Park which is located about 11 miles north-north east.



Figure 4-6: Priority Wetland Areas in the Lake Pend Oreille Region

Wetland	General Location	Latitude	Longitude	Nearest Strategy Location
Clark Fork River Delta	Northwest of Clark Fork City	48.147750	-116.18944	See Section 4.3.1
Hoodoo Lake/Lambertson Lake/Kelso Lake Wetlands	North of SR 54, West of US 95	48.039325	-116.749796	None
Pack River	SR 200, 9 miles east of Sandpoint	48.301086	-116.370692	SR200 38.69 SR200 40.78
McArthur Lake	US 95, 13 miles north of Sandpoint	48.493628	-116.463793	None
Muskrat Lake	South side of Pend Oreille River, near UP Railroad bridges	48.247045	-116.674878	None
Morton Slough	South side of Pend Oreille River, northeast of Laclede	48.199635	-116.698657	US2 17.12
Keyser's Slough	East of Priest River and Pend Oreille River confluence	48.177593	-116.880588	US2 7.59
Walsh Lake	West side of US 95, 9 miles north of Sandpoint	48.431866	-116.496188	None
Colburn Creek	West side of US 95, 8.2 miles north of Sandpoint	48.397705	-116.536237	US95 484.17
Cocolalla Lake	South end of Cocolalla Lake adjacent to BNSF line	48.1065	-116.619	US95 461.32

# 6.1.6 Rathdrum Prairie Aquifer

The Rathdrum Prairie Aquifer (RPA) is a deposit largely made up of sand, gravel, cobbles, and boulders. The RPA covers and area of approximately 211 square miles in Idaho and extends from the southern tip of Lake Pend Oreille south to Coeur d'Alene and Post Falls and then west to the Idaho-Washington border. The aquifer extends into Washington and becomes part of the larger Spokane Valley-Rathdrum Prairie Aquifer. As shown in Figure 6-5, the northern area of the aquifer lies at the southern end of Bonner County.

Water recharges the RPA thorough precipitation, runoff from the surrounding upland areas, and leakage from surrounding lakes, most notable, Lake Pend Oreille and Spirit Lake. The water table is at an elevation of about 2,060 feet above msl near Lake Pend Oreille and about 1,980 feet above msl at the Idaho-Washington state line.

The larger Spokane Valley-Rathdrum Prairie Aquifer supplies drinking water to approximately 100,000 people in Kootenai County, Idaho, and another 400,000 people in Spokane County, Washington.

IDEQ has classified the RPA as a sensitive resource aquifer. Because of this classification, all activities that could impact the water quality of the RPA must be carried out so they maintain or improve existing quality of the groundwater. Additionally, EPA classifies the Spokane Valley-Rathdrum Prairie Aquifer as a "sole-source aquifer" (Stevens et al. 2015).

Although this GRP document focuses attention on response to hazardous materials spills to surface waters, one must not forget the critical importance of protecting the Spokane Valley-Rathdrum Prairie Aquifer. Remediating an oil spill to an underground resource can be significantly more complex than remediation above-ground contamination.

# Rathdrum Prairie Aquifer Legnd Aptravia Banner Courty Southern Banner Courty Rathorn Prairie Aquifer Patravia Patravia</td

### Figure 6-5: Rathdrum Prairie Aquifer

# 6.2 Cultural/Historical Resources

Research indicates humans have inhabited areas adjacent to the lower Clark Fork River for more than 7,000 years. Artifacts and evidence remaining on the shorelines provide a wealth of information about the early inhabitants from Native American and prehistoric times to early-day fur trading and development of transportation (Avista Utilities 2011).

Multiple federal, state, and tribal agencies, as well as non-governmental entities, support identification and protection of cultural resources within the GRP coverage area. Entities such as the National Register of Historic Places, SHPO, and USGS Geographic Names Information System have developed and/or provide resources such as cultural resources surveys, which can be used as an early indication of the presence or absence of listed cultural resources in or near a spill location. At this time, it is not known how many sites of historical or cultural importance exists in the Lake Pend Oreille and Pend Oreille River system (NWAC 2005). This document does not locate sites specifically. However, due to fluctuating lake levels, there are known seasonal differences in sensitivity to cultural resources in the GRP coverage area.

To address the potential presence of cultural resources, it is recommended a representative of the Idaho SHPO be notified before spill cleanup commences. The SHPO may provide monitors to be present during cleanup operations (NWAC 2005). Resource specialists – such as archeologists, anthological historians, and object conservators – may be consulted, as appropriate, during spilled material releases to aid in determining which cultural resources may be present and in which areas, as well as which response efforts may warrant modification due to a specific cultural resource. Both the SHPO and the Kootenai Tribe should be contacted (see contact sheet).

# 6.2.1 Procedures for the Finding of Human Skeletal Remains

Any human remains, burial sites, or burial-related materials that are discovered during responses will be treated with respect at all times.

- If the SHPO monitor or any member of the response work force believes that he or she has encountered human skeletal remains, all work will be stopped immediately, and the incident commander notified.
- The incident commander will be responsible for taking appropriate steps to protect the discovery. At a minimum, the immediate area of discovery will be flagged, and vehicles and equipment will not be permitted to traverse the discovery site. In no case will further disturbance be performed prior to consultation, and no exposed human remains will be left unattended.
- The incident commander or representative will immediately contact HPO and the Bonner County medical examiner. The medical examiner will determine whether the discovery is a crime scene or human burial.
- If the remains are determined to be Native American and not to be connected with criminal activity, the Idaho State archeologist and incident command will confer on a treatment plan for the remains.
- If the remains are determined to be non-Native American or connected with criminal activity, the medical examiner will take charge.

# 6.2.2 Procedures for the Discovery of Cultural Resources

If the SHPO monitor or any member of the response work force believes that he or she has encountered cultural resources, all work will stop, and the incident commander will be notified immediately. The area of work stoppage will be adequate to provide for the security, protection, and integrity of the materials. Prehistoric cultural resources may include the following:

- Lithic debitage (stone chips and other tool-making byproducts);
- Flaked or ground stone tools;
- Exotic rocks and minerals;
- Concentrations of organically stained sediments, charcoal, or ash;
- Fire-modified rock;
- Bone (burned, modified, or in association with other bone, artifacts, or features); and
- Shell.

Historic (i.e., over 50 years old) cultural material may include the following:

- Bottles or other glass;
- Cans;
- Cermics; and
- Milled wood, brick, concrete, metal, or other building material.

If the SHPO monitor believes that the discovery is a cultural resource, the incident commander will take appropriate steps to protect the discovery site. At a minimum, the immediate area of the discovery site will be flagged and vehicles with equipment will not be permitted to enter the discovery site. Work in t he immediate area will not resume until treatment of the discovery has been completed.

- The incident commander or representative will contact the Idaho state archeologist and arrange for the discovery to be evaluated by a professional archeologist. The archeologist will determine whether the discovery is potentially eligible for listing on the National Registry of Historic Places (NRHP). Criteria and integrity requirements for listing on the NRHP (36 CFR 60.4) will provide the standards for identifying and evaluating the significance of cultural maters.
- The archeologist will consult with the Idaho state archeologist regarding the NRHP eligibility of the discovery. If the SHPO determines that the discovery is eligible, they will consult with incident command to determine appropriate treatment of the discovery.

If adverse project impacts to an eligible site cannot be avoided, a treatment plan will be developed and implemented. The Secretary of the Interior's *Standards for Archeological Documentation* will apply, including provisions for a research design, reporting, and curation of recovered material and samples (US National Park Service 2017).

The particular data recovery measures applied to any given historic property will depend on the development of research questions and design of excavation strategies to acquire the data needed to answer those questions. Field notes, maps, plans, profiles, and photographs will document the process. The final report will follow style guidelines of the professional archeological journal *American Antiquity*, it will synthesize the data collected and address the research questions posed.

# 6.3 Economic Resources

For more than a century, Bonner County's economy depended almost entirely on logging and lumber mills. Over the past 20 years, the local economic base has shifter to a mixture of tourism, manufacturing, retail, and services.

Conner County's recreational opportunities and quality of life have attracted thousand of new residents since the mid-1980s. Population growth spurred growth in the construction industry, retail stores, health care providers, public schools, service organization, and government agencies. The construction, finance, insurance, and real estate industries in Bonner County are nearly three times larger than they would be in most counties of its size due to the county's exceptionally strong population growth, the large number of vacation homes built, and the high level of commercial and industrial development over the last decade.

Tourism also grew rapidly in the late 1980s and early 1990s. Sandpoint's reputation as a haven for the arts also contributed to the growth of tourism, and the 1990 expansion of Schweitzer Mountain Resort boosted winter recreation.

More than a dozen manufacturers have relocated to the county since 2000. Between 2001 and 2004, Bonner County gained 500 jobs, experiencing growth of 36% in manufacturing jobs. The county's largest manufacturers that do not produce lumber or other wood products include Litehouse, Unicep Packaging, Encoder Products, Cygnus, Thorne Research Products, Diedrich Roasters, Quest Aircraft, Tamarack Aerospace Group, and Aerocet, Inc.

Over half (55%) of the Upper Pend Oreille Sub-Area is privately owned. The remaining land is managed by the USFS (25%), the state (7%), and BLM (1.6%). Major land uses in the sub-area include agricultural and timber production and recreational development. Only 12% of the drainage is open water (NPCC 2005b). Near the lake and on its shore, private lands account for more than half of the ownership (NWAC 2005). The east side of Lake Pend Oreille is

predominantly USFS land.

Major economic resources in the Upper Pend Oreille Sub-Area that could be impacted by a spill are listed below. From upstream to downstream, the following major economic resources are present in the GRP coverage area.

# 6.3.1 Cabinet Gorge Dam and Reservoir

The Cabinet Gorge Dam and Reservoir is located on the Clark Fork River, 0.25 miles west of the Idaho-Montana state line and 20 miles downstream of the larger Noxon Rapids Dam. Operated by Avista Utilities for hydroelectric power generation (20,000 kilowatts), caBINE Gorge lies 7.5 miles upstream of the town of Clark Fork and 11 miles upstream of Lake Pend Oreille. Cabinet Gorge impounds a 20-mile long reservoir containing approximately 105,000 acre-feet of storage at full pool elevation (2,175 feet) (Bonner County 2010b).

The dam, a 395-foot concrete arch between two concrete abutments, is 208 feet tall at its highest point (Bonner County 2010b). The dam/reservoir complex is designed to generate electricity and is not intended to provide significant floodwater storage or detainment (Avists Utilities 2011). The spillway is controlled by eight vertical lift spill gates, each 40 feet wide by 35 feet high (Bonner County 2010b). Dam outfalls cannot be turned completely off as a means to contain (soluble or entrained) spilled materials or slow their dispersal. In addition, operating requirements contained in the FERC licenses for these dams mandate minimum discharges (Avista Utilities 2011). Since the dam outfalls are designed and operated in an underflow discharge configuration, with the exception of two small trash/debris gates, floating spilled materials could be captured, contained, and collected in the weir pool by temporarily closing the debris gates.

From a hydrologic perspective, this reservoir functions as a flowing section of river, with flow flow rates (less than 1 foot per second) in most places (Avista Utilities 2011).

Response strategies MP 62.95 have been developed to address potential spilled material impacts to this resource.

# 6.3.2 Cabinet Gorge Fish Hatchery/Avista Utilities Fish Rearing Facility

Cabinet Forge Fish Hatchery/Avista Utilities Fish Rearing Facility is located on the southern side of the Clark Fork River, approximately 8 miles southeast of Clark Fork. The hatchery was constructed in 1985 to mitigate for fish losses caused by the construction of hydroelectric dams on the Pend Oreille River system. The project was co-funded by Avista Utilities, BPA, and the IDFG. Water for fish rearing at the hatchery is supplied by six groundwater well pumps. A total of 10,995 gallons per minute of water is supplied by these pumps and routed to 64 individual raceways. Each raceway can hold 250,000 two-inch kokanee salmon. The primary species of fish reared is kokanee salmon. The hatchery also houses the Westslope cutthroat trout bloodstock for the state. Other species of fish raised are rainbow trout and fall Chinook salmon (IDFG 2015b).

A notification and collection strategy at MP 61.63 has been developed as a means to notify the hatchery in the event of a spill and potentially collect spilled material.

# 6.3.3 Lake Pend Oreille

Lake Pend Oreille supports a significant sport fishery. In 1991, anglers expended an estimated 465,000 hour fishing the lake with approximately 65% of the effort targeting trout and 53% of the effort targeting kokanee (Paragamian and Ellis 1994). The world record bull trout, 14.5 kilograms (kg) (32 pounds), and the world record rainbow trout, 16.8 kg (37 pounds), were taken from Lake Pend Oreille in 1949 and 1947, respectively. Current and planned fisheries management direction in Lake Pend Oreille emphasizes kokanee as a keystone species with bull trout and rainbow

trout managed for a trophy fishery. Westslope cutthroat trout are managed primarily as a wild trout fishery with restrictive regulations (NPCC 2005b).

# 6.3.4 Sandpoint Public Water System

The Sandpoint Public Water System is operated by the Sandpoint Public Works Department and supplies water to approximately 10,000 residents through approximately 4,500 service connections. From September through November each year, this system is supplied by water from Lake Pend Oreille through a submerged intake structure approximately 1,500 feet offshore near the Sandpoint City Beach. Normal water demand is met during the remainder of the year through their primary water supply intake on Little Sand Creek, which cannot be directly impacted by a rail-related spilled materials release due to its location at a higher elevation than the rail corridor. When Lake Pend Oreille is used as a water source, the system retains approximately 4 million gallons of water in reserve, which would last approximately 2 days if use restrictions are imposed (person communication from Cody VanDyke, Public Works Director, Sandpoint).

Response strategy US95 473.84 has been developed to address potential spilled material impacts to this resource.

# 6.3.5 Sandpoint City Beach

Sandpoint City Beach, located at the eastern end of Bridge Street, is one of the oldest and best-known parks in Sandpoint. The 18-acre park was donated to Sandpoint in 1922 by the Northern Pacific Railroad and is now one of the focal points of Sandpoint. It has been developed over the years by volunteer labor, donations, and city, county, state, and federal funds. The city beach is the busiest park in the city park system and is used for several community special events including a large arts and crafts fair hosted by Pend Oreille Arts Council and the Lion's Club 4<sup>th</sup> of July Fireworks.

Response strategy US95 473.9 has been developed to address potential spilled material impacts to this resource.

# 6.3.6 City of Dover Public Water System

The City of Dover Public Water System is operated by the City of Dover Water Department and supplies water to approximately 230 residents through 177 service connections. This system is supplied by water from the Pend Oreille River from a submerged intake structure located approximately 3,500 feet upstream of the Dover Bay Marine boat launch and approximately 250 feet offshore. The system retains approximately 400,000 gallons of water in reserve, which would last approximately 6 days during peak demand with no use restrictions imposed (personal communication from William C. Strand, PhD, System Manager, Dover).

Response strategy US2 25.63 has been developed to address potential spilled materials impacts to this resource.

# 6.3.7 City of Laclede Public Water System

The City of Laclede Public Water System is operated by the Laclede Water District and supplies water to approximately 915 residents through approximately 340 connections. This system is supplied by water from the Pend Oreille River from a submerged intake structure located approximately 160 feet offshore near the Laclede public boat launch (IDEQ 2001).

Response strategy US2 14.37 has been developed to address potential spilled materials impacts to this resource.

# 6.3.8 Priest River Public Water Supply

The Priest River Public Water Supply is operated by the Priest River Public Works Department and supplies water to approximately 2,1250 resident through approximately 932 service connection. This system is supplied by water from the Pend Oreille River from a submerged intake structure located approximately 230 feet offshore near the Priest River public boat launch (IDEQ2012).

Response strategy US2 6.38 has been developed to address potential spilled materials impacts to this resource.

# 6.3.9 Waterlife Discovery Center

The Waterlife Discovery Center, previously known as the Sandpoint State Fish Hatchery, was built in 1909 by the IDFG, with partial funding from the local sportsmen's association.

The facility is located on a small bluff on the shore of the Pend Oreille River on Lakeshore Drive in Sandpoint. Spring water from a neighboring property is piped underground to supply water for the hatchery tanks and fish runway. However, because the water is too cold for successful aquaculture, the hatchery has been used primarily as a summer redistribution facility for rainbow trout (Sandpoint 2015). The facility now houses a small museum and is used as an environmental education facility for schools and conservation groups.

# 6.3.10 Albeni Falls Dam

The Albeni Falls Dam is located on the Pend Oreille River approximately 6 miles west of Priest River. The 65-foot high concrete dame was completed in 1952. It is owned by the USACE and operated for hydroelectric power (42,600 kilowatts). The dam also reduces the maximum lake level for flood control. The reservoir has a storage capacity of 1.56 million acre-feet of water and provides recreational areas for visitors (Bonner County 2010b).

Since the dam outfalls are designed and operated in an underflow discharge configuration, with the exception of small trash/debris gates, low density spilled materials floating near the surface could be captured, contained, and collected in the weir pool by temporarily closing the debris gates.

Response strategies US 2 2.21 and US 2 2.109 have been developed to address potential spilled material impacts to this resource.

# 6.3.11 Seasonal/Private/Non-Municipal Water Systems

Seasonal/private/non-municipal water systems using Lake Pend Oreille as a water source include Island View Resort, Kullyspell Estates, Red Fir Resort, Sunnyside, Oden Bay, and Sourdough Point. Notification strategies have been developed to address these known seasonal/private/non-municipal water systems within the GRP coverate area. See additional discussion in Section 4.5.

# 6.3.12 Marinas

Lake Pend Oreille and the Pend Oreille River have six marinas that serve the boating needs of sport fishermen and recreational boaters. Four of those marinas can supply fuel. Appendix F highlights the marinas and indicates which ones provide services in addition to boat parking.

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## Appendix A Responding to Releases

## **Responding to Petroleum Releases**

## **Short-Term Actions**

- Identify and mitigate fire, explosion, and vapor hazards. Some situation may require you to immediately notify your local fire department.
- Take immediate action to prevent any further release of petroleum into the environment.
- Report the release to the Idaho Department of Environmental Quality (IDEQ) within 24 hours.
- Handle contaminated materials, including soil and water, in a responsible manner. This may require safely storing contaminated materials until proper disposal or treatment can be accomplished. Always avoid contaminating previously uncontaminated areas.
- Additional guidance may be obtained from IDEQ regional offices.
- Begin removing free product floating on groundwater or in excavations as soon as possible.

## **Reporting Requirements for Petroleum Releases**

## **Underground Releases**

- A discovery by owners and operators or others of a petroleum release at the PST site or surrounding area. Discovery can include the presence of free product or dissolved product in nearby surface water or groundwater or vapors in soil, basements, and sewer or utility lines.
- Unusual operating conditions observed by owners and operators. These conditions include erratic behavior of
  product dispensing equipment, sudden loss of product from the PST system or an unexplained presence of
  water in the PST system. However, no reporting is required if the PST system equipment if found to be
  defective but not leaking and is immediately repaired or replaced.
- Monitoring results from a release detection method that indicate a release may have occurred. However, no
  reporting is required if the monitoring device is found to be detective and is immediately repaired,
  recalibrated, or replaced, and additional monitoring does not confirm a release, or in the case of inventory
  control, a second consecutive month of data does not confirm a release.

## **Above-Ground Spills and Overfills**

- An above-ground spill or overfill of petroleum that results in a release to the environment which exceeds 25 gallons or causes a sheen on nearby surface water must be reported to IDEQ within 24 hours.
- An above-ground spill or overfill of petroleum which is less than 25 gallons and does not cause a sheen on nearby surface water need only be reported to IDEQ if cleanup cannot be completed within 24 hours.
- For specific reporting and release requirements from dielectric oil (mineral or insulating oil) releases from electric equipment, see the Idaho Water Quality Standards & Wastewater Treatment Requirements

(IDAPA 58.01.02.849).

To report a petroleum release to IDEQ during regular business hours, contact the appropriate regional office at the number provided at the end of this information sheet.

## **Federal Reporting Requirements**

Any person or organization responsible for a release or spill is also required to notify the federal government when the amount reaches the a federally determined limit. Please go to the following US Environmental Protection Agency web link to determine if a release requires federal reporting: <u>https://www.epa.gov/emergency-response/when-are-you-required-report-oil-spill-and-hazardous- substance-release</u>

## **Responding to Hazardous Material Spills**

IDEQ rules define hazardous material as a material or combination of materials that, when discharged in any quantity into state waters, presents a substantial present or potential hazard to human health, the public health, or the environment.

## **Short Term Actions**

In the case of an unauthorize release of hazardous materials to state waters or to land such that there is a likelihood that it will enter state waters, the responsible persons in charge must:

- Make every reasonable effort to abate and stop a continuing spill.
- Make every reasonable effort to contain spilled material in such a manner that it will not reach surface or groundwaters of the state.
- Collect, remove, and dispose of the spilled material in a manner approved by IDEQ.

## **Reporting Requirements for Hazardous Materials Spills**

## **All Hazardous Material Releases**

In the case of an unauthorized release of hazardous materials to state waters or to land such that there is a likelihood that it will enter state waters, the responsible persons in charge must immediately notify IDEQ or designated agent of the spills. This requirement applies regardless of any additional reporting done under the below requirements (IDAPA 58.01.02.850).

## **Releases Exceeding Reportable Quantity (Within a 24-Hour Period)**

In the case of a release from a facility into the environment of a hazardous substance in excess of it reportable quantity (within a 24-hour period), the facility must immediately notice the National Response Center (NRC) or State Communications Center (StateComm) within a 24-hour period. Reportable Quantities for chemicals and hazardous wastes can be found in 40 CFR §302.4.

## **Releases from LQGs and TSDFs**

In the case of a Large Quantity Generators (LQGs) and Treatment, Storage, and Disposal Facilities (TSDFs), if the emergency coordinator (or designee) determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment outside the facility, the coordinator must: 1) notify appropriate local authorities if evacuation of local areas may be necessary and 2) notify the NRC and StateComm of the incident.

In addition, within 15 days of the incident, the LQGs or TSDF must submit a written follow-up report to IDEQ which includes the name, address, and telephone number of the owner/operator and the facility; the date, time and type of incident, the name and quantity of material(s) involved; the extent of any injuries, if any; an assessment of actual or potential hazards to human health or the environment; and estimated quantity and disposition of recovered material that resulted from the incident.

## **Releases from Hazardous Waste Tank Systems**

If a facility has a release of hazardous waste from a tank system to the environment, they are required to notify the Department within 24 hours. If the release has been reported pursuant to 40 CFR Part 302 as noted above, that report will satisfy this requirement. Releases that are less than 1 pound and immediately contained and cleaned up are exempt from this reporting requirement.

In addition, within 30 days of detection of a release of hazardous waste from a tank system, a written follow-up report must be submitted to IDEQ describing the likely route of migration of the release; the characteristics of the surrounding soil; results of any monitoring or sampling conducted in connection to the release; proximity to down gradient drinking water, surface water, and population areas; and a description of the actions taken or planned.

To report a spill or release to IDEQ during regular business hours, contact the appropriate regional office at the number provided at the end of this information sheet.

## **Federal Reporting Requirements**

Any person or organization responsible for a release or spill is also required to notify the federal government when the amount reaches a federally determined limit. Please go to the following EPA web link to determine if a release requires federal reporting: <u>https://www.epa.gov/emergency-response/when-are-you-required-report-oil-spill-and-hazardous-substance-release</u>.

## **Release Reporting Phone Numbers**

Idaho State Communication Center:

(800) 632-8000 (Calls from outside Idaho)

(208) 846-7610 (Calls from within Idaho)

National Response Center:

(800) 424-8802

Idaho Department of Environmental Quality:

DEQ Boise Regional Office	DEQ Lewiston Regional Office
1445 N. Orchard St	111 F St
Boise, ID 83706	Lewiston, id 83501
ph: (208) 373-0550	ph: (208) 799-4370
fx: (208) 373-0287	fx: (208) 799-3451
toll-free (888) 800-3480	toll free (877) 541-3304
DEQ Coeur d'Alene Regional Office	DEQ Pocatello Regional Office
2110 Ironwood Parkway	444 Hospital Way, #300
Coeur d'Alene	Pocatello, ID 83201
Ph: (208) 769-1422	Ph: (208) 236-6160
Fx: (208) 769-1401	Fx: (208) 236-6168
Toll-free (877) 370-0017	Toll-free (888) 655-6160
DEQ Idaho Falls Regional Office	DEQ Twin Falls Regional Office
900 N. Skyline Drive, Suite B	650 Addison Ave W, Suite 110
Idaho Falls, ID 83402	Twin Falls, ID 83301
Ph: (208) 528-2650	Ph: (208) 736-2190
Fx: (208) 528-2695	Fx: (208) 736-2194
Toll-free (800) 232-4635	Toll-free (800) 270-1663

NOTE: For non-emergency petroleum releases that are immediately contained and do not present an imminent threat to human health or the environment that are discovered on weekends, holidays or after normal business hours. Notification may be postponed until the next business day. Otherwise, afterhours petroleum releases should be reported to StateComm.

## Appendix B Strategy Reports

Pend Oreille River Sector Overview

Sector 1A

port

OPriest River

Sector 1B

Sector 2A

Laclede

Round Lake

Dov

Sector 7A

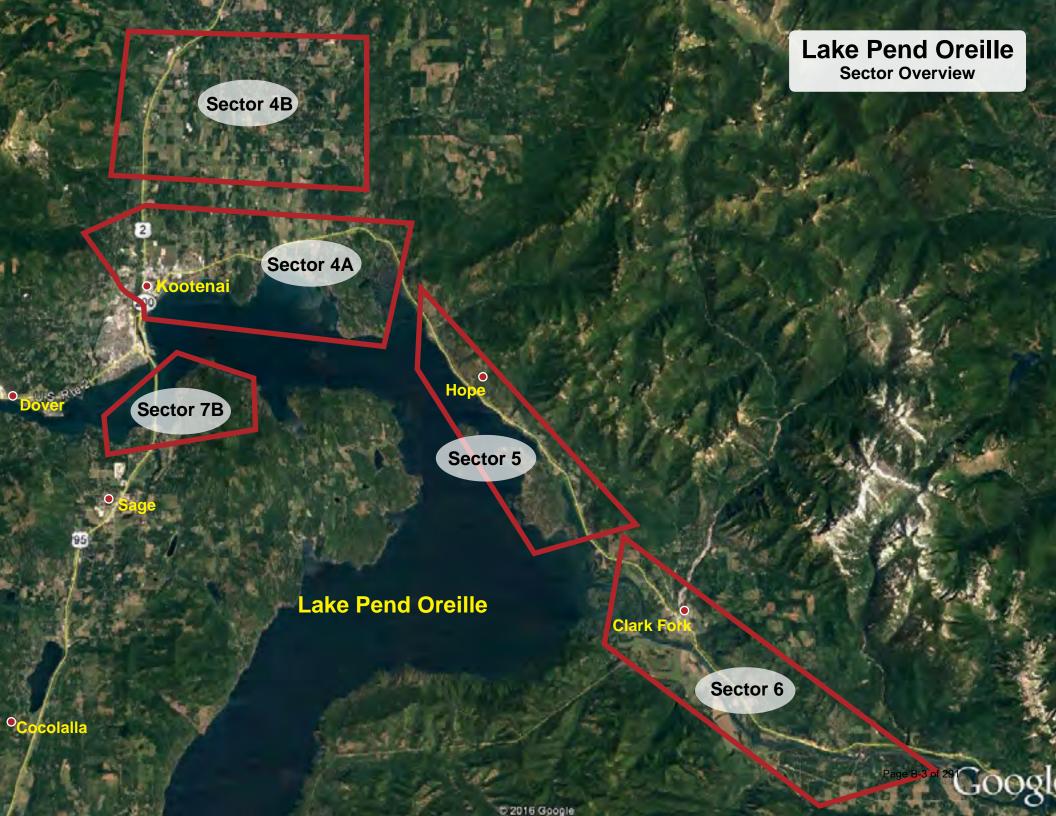
Sector 2B

Lake Cocolalla

<sup>o</sup>Cocolalla







# NorthwestArea Committee 2020

Sector &	Site ID & Highway	Railroad Milepost	Site Name	Accessible by Boat at	Nearest Boat Ramp or
Мар	Milepost			Low Water?	Staging Area
e d d d	US2 0.30	POVA 1430.86	Oldtown Boat Launch	Yes	US2 0.30
Sector 1A West Pend Oreille	US2 2.0	POVA 1428.7	Albeni Falls Dam	Uncertain	US2 2.0
S ~ 1 O	US2 2.21	POVA 1428.66	Albeni Cove Recreation Area	No	US2 2.21
	US2 5.73	POVA 1424.79	10 <sup>th</sup> Street Surface Water	Uncertain	US2 6.87
t uq	US2 6.2	POVA 1424.31	Priest River – South	No	US2 6.38
t Pe strii	US2 6.38	POVA 1424.13	Priest River City Water Intake	Yes	US2 6.38
V es: e Di	US2 6.87	POVA 1423.64	Priest River Mouth	Yes	US2 6.87
1B \ e Fir	US2 7.59	POVA 1423.0	Priest River Mouth Slough	Unlikely	US2 6.87
Sector 1B West Pend Oreille Fire District	US2 10.19	POVA 1420.46	Carey Creek Game Management	Unlikely	US2 6.87
Sec			Area		
	US2 10.52	POVA 1420.12	Baylor Lane Slough	No	US2 13.49
	US2 13.3	POVA 1417.28	Riley Creek Slough	No	US2 13.49
e	US2 13.49	POVA 1417.06	Riley Creek Recreation Area	No	US2 13.49
Sector 2A Westside Fire District	US2 14.37	POVA 1416.24	Laclede Public Water Supply	Yes	US2 14.37
stsid	US2 16.06	UP Spokane RR	Cocolalla Creek Mouth	Unlikely	US2 14.37
A Wests District		62.78			
2A Di	US2 16.29	UP Spokane RR	Morton Slough Boat Launch	No	US2 16.29
ctor		63.14			
Sec	US2 17.12	POVA 1413.35	Morton Slough Game Management	No	US2 14.37
			Area		
	US2 20.71	POVA 1409.86	Bay near Muskrat Lake	No	US95 470.21
side	US2 24.89	BNSF Newport	Dover Bay Slough	No	US2 25.15
/est: rict		71.01			
tor 2B Wests Fire District	US2 25.16	BNSF Newport	Dover Bay Marine	No	US2 25.15
or 2 ire		71.31			
Sector 2B Westside Fire District	US2 25.63	BNSF Newport	Dover Bay Water Intake	Yes	US2 25.15
		71.87			

## Northwest Area Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
int	US2 26.68	BNSF Newport 72.79	Chuck Slough	No	US2 25.15
Sandpoi	US2 27.07	BNSD Newport 73.29	Ontario Street West	No	US2 25.15
Sector 3A Sandpoint	US2 27.17	BNSF Newport 73.33	Ontario Street East	No	US2 25.15
Sec	US2 27.74	BNSF Spokane 3.32	South Ella Ave Culvert	No	US95 473.87
	US2 28.02	BNSF Spokane 3.33	Memorial Park Culvert	No	US95 473.87
	US2 28.17	BNSF Spokane 3.35	South Euclid Ave Culvert	No	US95 473.87
	US2 28.31	BNSF Spokane 3.37	South 4 <sup>th</sup> Ave Culvert	No	US95 473.87
lpoint	Us2 28.36	BNSF Spokane 3.38	South 3 <sup>rd</sup> Ave Culvert	No	US95 473.87
Sector 3B Sandpoint	US95 472.85	BNSF Spokane 4.28	Long Bridge	Yes	US95 471.08
Sector	US95 473.84	BNSF Spokane 3.4	Sandpoint Public Works Water Intake	Yes	US95 473.87
	US95 473.9	BNSF Spokane 3.17	Sandpoint City Beach and Marina	Yes	US95 473.87
	US95 473.91	BNSF Spokane 3.29	Mouth of Sand Creek	Yes	US95 473.87
	US95 474.31	BNSF Spokane 3.13	Lower Sand Creek	No	US95 473.87

## Northwest Area Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
t	US95 474.41	BNSF Spokane 3.02	East Cedar Street Culvert #1	No	US95 473.87
Sector 3C Sandpoint	US95 474.45	BNSF Spokane 2.98	East Cedar Street Culvert #2	No	US95 473.87
or 3C Sa	US95 474.46	BNSF Spokane 2.97	East Cedar Street Culvert #3	No	US95 473.87
ecto	US95 474.78	BNSF Spokane 2.9	Alder Street Culvert	No	US95 473.87
S	US95 475.09	BNSF Kootenai 1402.96	North 5 <sup>th</sup> Ave Surface Water Outflow #1	No	US95 473.87
	US95 475.21	BNSF Kootenai 1402.75	North 5 <sup>th</sup> Ave Surface Water Outflow #2	No	US95 473.87
	US95 475.22	BNSF Kootenai 1402.74	North 5 <sup>th</sup> Ave Surface Water Outflow #3	No	US95 473.87
	US95 475.3	BNSF Kootenai 1402.66	Sand Creek Trestle	No	US95 473.87
nt	US95 475.32	BNSF Kootenai 1402.63	Visitor Center Culvert #1	No	US95 473.87
Sector 3D Sandpoint	US95 475.32	BNSF Kootenai 1402.6	Visitor Center Culvert #2	No	US95 473.87
tor 3D (	US95 475.4	BNSF Kootenai 1402.58	Visitor Center Culvert #3	No	US95 473.87
Sec	US95 475.41	BNSF Kootenai 1402.55	Visitor Center Culvert #4	No	US95 473.87
	US95 475.42	BNSF Kootenai 1402.57	Baldy Mountain Road Surface Water Outflow #2	No	US95 473.87
	US95 475.5	BNSF Kootenai 1402.53	Baldy Mountain Road Surface Water Outflow @1	No	US95 473.87
	US95 475.53	BNSF Kootenai 1402.33	North Boyer Ave & Baldy Mountain Road	No	US95 473.87

## NorthwestAreaCommittee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
Ινιάρ	US95 478.53	BNSF Kootenai	Bronx Road	No	US95 473.87
	0395 478.55	1399.09	BIOIX KOAU	NO	0395 473.87
(ə	US95 479.99	BNSF Kootenai	Sand Creek Water Treatment Plan	No	No applicable
shoi	0395 479.99		Sand Creek Water Treatment Plan	NO	No applicable
ake	CD 200 22 45	1399.67	Daviar Clavish	N -	News
e (L	SR200 33.15	MRL4 114.92	Boyer Clough	No	None
Sector 4A Northside (Lakeshore)	SR200 34.53	MRL4113.5	Oden Water Association Water Intake	Yes	SR200 42.59
A NG	SR200 34.98	MRL4 113.0	Culver Slough	Unlikely	US95 473.87
or 4,	SR200 36.39	MRL4 109.77	Pend Oreille State Wildlife	Unlikely	Uncertain
ecto			Management Area		
Ň	SR200 38.69	MRL4 109.93	Pack River Bridge	No	SR200 42.59
	SR200 41.28	MRL4 107.49	Sunnyside Water Intake	Yes	SR200 41.38
side	US95 480.44	BNSF Kootenai 1397.09	West Selle Road	No	No boat access
or 4B Norths (Selle Valley)	US95 484.17	BNSF Kootenai 1393.33	East Colburn	No	US95 473.87
Sector 4B Northside (Selle Valley)	US95 487.77	BNSF Kootenai 1391.75	Lower Pack River	No	No boat access
S	SR200 37.78	MRL4 111.05	Rapid Lightning Road Bridge	No	No boat access
	SR200 40.78	MRL4 107.95	Pack River Trestle	Uncertain	SR200 42.59
u	SR200 42.09	MRL4 106.71	Trestle Creek	Unlikely	SR200 42.59
0 Mé	SR200 46.4	MRL4 102.4	Red Fir Resort Water Intake	Yes	SR200 42.59
Sector 5 Sam Owen	SR200 48.08	MRL4 100.86	Islandview Resort Water Intake	Yes	SR200 47.9
- 5 S	SR200 49.45	MRL4 99.36	Kullyspell Estates Water Intake	Yes	SR200 47.38 or SR200
ctor					49.46
Se	SR200 50.19	MRL4 98.52	David Thompson Wildlife Preserve	Unlikely	SR200 47.38
	SR200 50.4	MRL4 98.43	Denton Slough	Unlikely	SR200 51.69

## Northwest Area Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
	SR200 51.69	MRL4 97.35	Driftyard Boat Launch	Unknown	On-Site
	SR200 54.83	MRL4 94.47	Johnson Creek Trestle	Unlikely	SR200 54.83
ork	SR200 55.30	MRL4 94.22	Johnson Creek Collection	Unknown	On-Site
ark F	SR200 56.05	MRL4 92.92	Clark Fork Bridge	Yes	SR200 57.07
Sector 6 Clark Fork	SR200 57.12	Mrl4 91.79	Lower Fish Hatchery Slough	Uncertain	SR200 57.07
ior 6	SR200 58.62	MRL4 90.45	Upper Fish Hatchery Slough	Uncertain	Uncertain
Sect	SR200 60.79	MRL4 87.66	Clark Fork River Access	Yes	SR200 60.79
	SR200 61.63	MRL4 86.81	Cabinet Gorge Fish Hatchery	Yes	On-Site
	SR200 62.95	MRL4 85.35	Cabinet Gorge Dam	Yes	On-Site
uth)	US95 461.32	BNSF Spokane 16.94	Cocolalla Creek Trestle	No	US95 463.62
Sagle (South)	US95 463.82	BNSF Spokane 14.22	Cocolalla Creek Outlet	No	US95 473.87
7A	US95 463.95	BNSF Spokane 14.07	Cocolalla Loop Road Bridge	No	US95 473.87
Sector	US95 465.11	BNSF Spokane 13.43	Round Lake	Yes	US95 465.12
Sector 7B Sagle (North)	US95 471.08	BNSF Spokane 6.7	Bottle Bay Bridge	No	On-Site
Se (L	US95 472.98	MRL4 4.89	Sourdough Pont Water Intake	Yes	US95 472.98

Cardboard

Sector 1

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# NorthwestArea Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
ے <sub></sub> ع	US2 0.30	POVA 1430.86	Oldtown Boat Launch	Yes	US2 0.30
Sector 1A West Pend Oreille	US2 2.0	POVA 1428.7	Albeni Falls Dam	Uncertain	US2 2.0
х , но	US2 2.21	POVA 1428.66	Albeni Cove Recreation Area	No	US2 2.21
	US2 5.73	POVA 1424.79	10 <sup>th</sup> Street Surface Water	Uncertain	US2 6.87
ct d	US2 6.2	POVA 1424.31	Priest River – South	No	US2 6.38
est Pend District	US2 6.38	POVA 1424.13	Priest River City Water Intake	Yes	US2 6.38
West re Dis	US2 6.87	POVA 1423.64	Priest River Mouth	Yes	US2 6.87
ы В Е	US2 7.59	POVA 1423.0	Priest River Mouth Slough	Unlikely	US2 6.87
Sector 1 Oreille	US2 10.19	POVA 1420.46	Carey Creek Game	Unlikely	US2 6.87
Or Sec			Management Area		
	US2 10.52	POVA 1420.12	Baylor Lane Slough	No	US2 13.49



## Sector 1B West Pend Oreille Fire District

57

MENARIVERRE

old

US2 6.38

**US2 6.2** 

**US2 6.87** 

US2 7.5

C 2016 Google

**US2 10.19** 

Dulort-Rd-

**US2 10.52** 

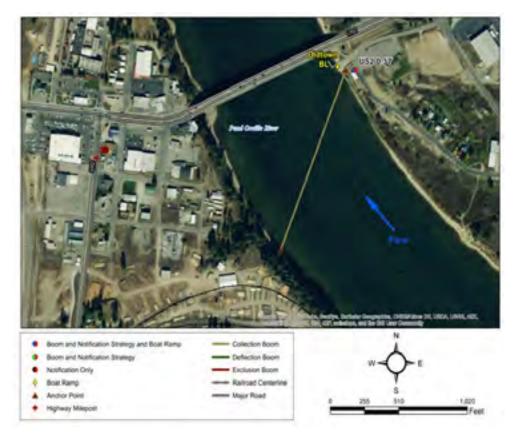
1. 10

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### **Oldtown Boat Launch**

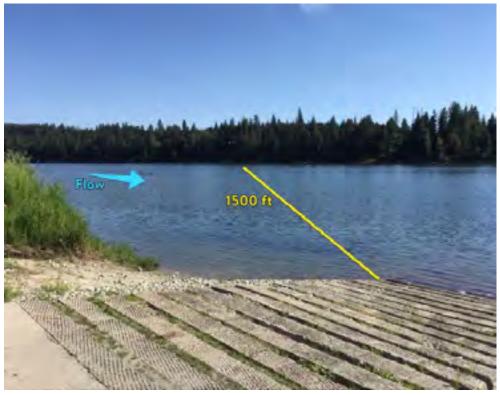
(POVA 1430.8)	US2 0.3
---------------	---------

Site Lat Long:	48.185324 -117.031909 (http://www.google.com/maps/place/48.185324,-117.031909)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Pend Oreille River flow direction is to the northwest. Deploy collection boom and initiate contaminant recovery at Oldtown. Secure upstream end of boom River Right to steel post. Vacuum truck access is good. Notify City of Oldtown.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	On site staging is large. Large parking area for vehicles and equipment adjacent to boat ramp. Concrete boat launch. Oldtown boat launch is on site.		
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO		
Resources Targeted:	Bull Trout Critical Habitat, downstream municipal and irrigation water supplies, wildlife habitat, recreation.		
Watercourse:	Lake Pend Oreille: gradient is low; substrate is sand; approx. width is 1000 ft.; approx. depth is 10 to 20 feet; channelized; slow moving.		

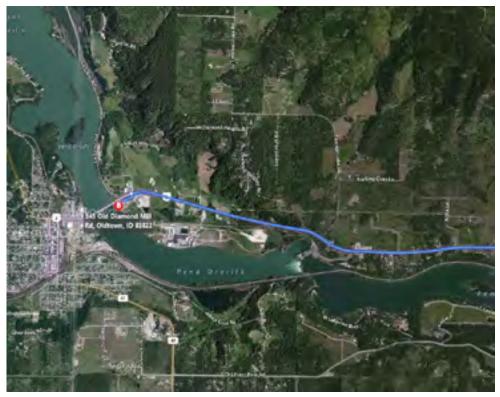


Suggested Equipment			
Quantity	Description		
1500 ft.	Curtain Boom Tow Bridles		
As Appropriate	Portable Skimmer; Vacuum Truck		
2000 ft.	Polypropylene Line		
9	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
3	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	Throw bags, first aid kit		
Jet boat/raft needed for strategy implementation?			

Suggeste	Suggested Personnel			
Quantity	Title (Function)			
1	Booming Team Leader			
1	Safety Representative			
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)			
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater) Page B-16 of 291			



Nearest Cache: Sandpoint (27.8 miles) Second Cache: Bonners (61.2 miles)



Nearest Address: 68 Rd Old Diamond Mill Oldtown ID 83822

### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St. 0.2 mi
- 2. Turn right onto US 2 W/Pine St 27.8 mi
- 3. Turn left at Selkirk Way 151 ft
- 4. Turn right onto Old Diamond Mill Rd 0.3 mi



View from boat ramp and collection point looking upstream toward River left anchor.

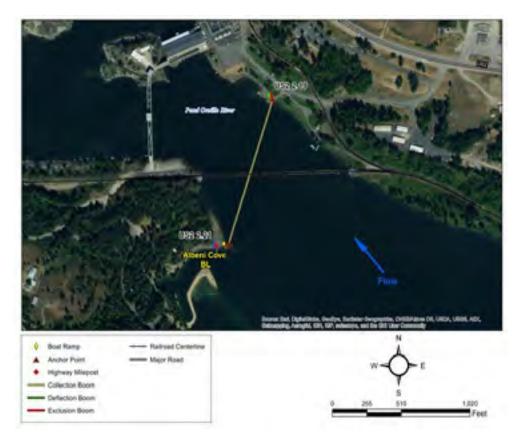


Boat ramp.

#### Albeni Falls Dam

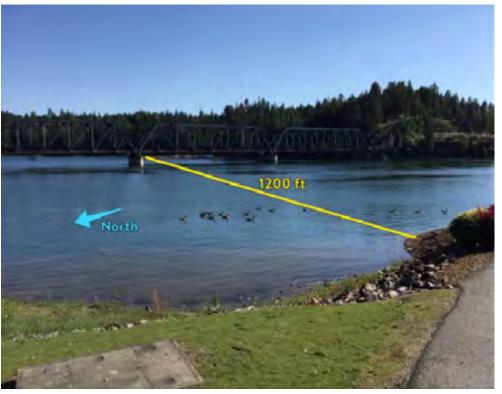
(POVA 1428.7)	US2 2.0
---------------	---------

Site Lat Long:	48.179406 -116.996052 (http://www.google.com/maps/place/48.179406,-116.996052)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Pend Oreille RIver flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Albeni Falls Dam. Secure upstream end of boom River Left to steel post. Secure downstream end of boom River Right to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Large parking area near dam ranger station for vehicles and equipment. No boat ramp onsite. No boat launch facilities. Oldtown boat launch is 2.3 miles away.	
Field Notes:	<ul> <li>Use Albeni Cove Recreation Area Boat Ramp to implement strategy.</li> <li>4WD Access: NO Seasonal Access Only: NO Locked Gate: NO</li> </ul>	
Resources Targeted:	Albeni Falls Dam, Bull Trout Critical Habitat, downstream municipal and irrigation water supplies, wildlife habitat, recreation.	
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. width is 1000 ft.; approx. depth is 10 to 20 feet; channelized; slow moving.	

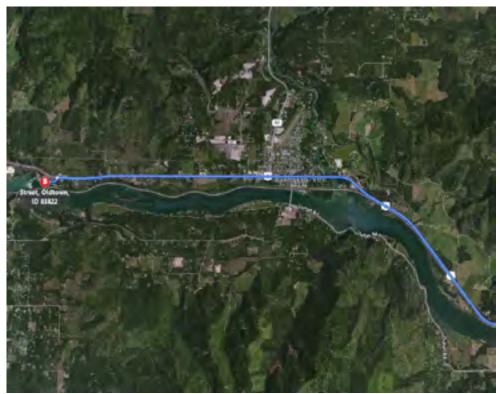


Suggested Equipment		
Quantity	Description	
1200 ft.	Curtain Boom Tow Bridles	
As Appropriate	Portable Skimmer; Vacuum Truck	
1500 ft.	Polypropylene Line	
12	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
3	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)



Nearest Cache: Sandpoint (26.0 miles) Second Cache: Bonners (59.4 miles)



Nearest Address: 2289 Highway 2 Oldtown ID 83822

#### Site Access

- Sandpoint, ID
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 26.0 mi
- 3. Turn left 0.3 mi
- Albeni Falls Dam, Idaho



Looking upstream towards River left anchors from collection point.

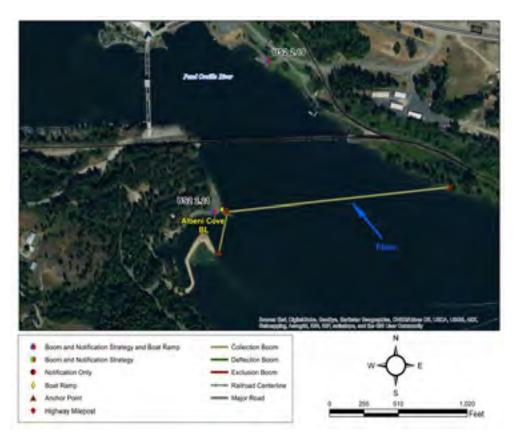


View of lower parking area with good vac truck access.

#### **Albeni Cove Recreation Area**

(POVA 1428.66)	US2 2.21
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Site Lat Long:	48.176484 -116.997298 (http://www.google.com/maps/place/48.176484,-116.997298)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Lake Pend Oreille flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Albeni Cove Recreation Area. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Large paved parking area for vehicles and equipment adjacent to boat ramp. Onsite boat ramp. Concrete boat launch is on site.	
Field Notes:	<ul> <li>Recreation area gate locked from 2200-0700. Sheriff Deputies and Campground Host have keys.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: YES</li> </ul>	
Resources Targeted:	Albeni Falls Dam, Bull Trout Critical Habitat, downstream municipal and irrigation water supplies, recreation, wildlife habitat.	
Watercourse:	Lake Pend Oreille: gradient is low; substrate is sand; approx. width is 1000 ft.; approx. depth is 10 to 20 feet; channelized; slow moving.	



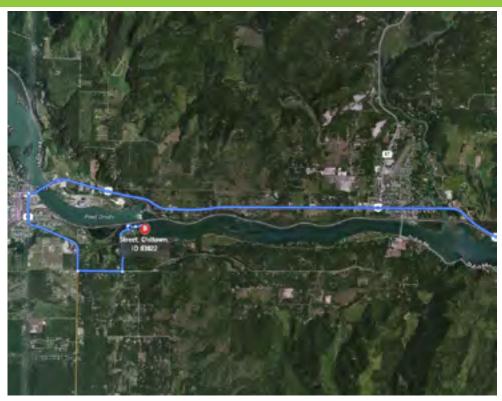
Suggested Equipment		
Quantity	Description	
2200 ft.	Curtain Boom Tow Bridles	
As Appropriate	Portable Skimmer; Vacuum Truck	
2800 ft.	Polypropylene Line	
24	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
4	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater) Page B-22 of 291



Nearest Cache: Sandpoint (28.7 miles) Second Cache: Bonners (62.1 miles)

Need phone number for on-Site recreation manager.



Nearest Address: 741 Blackthorn Rd Oldtown ID 83822

### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 22.2 mi
- 3. Turn left onto Wisconsin St 0.4 mi
- 4. Turn right onto OId Priest River Rd 5.0 mi
- 5. Turn right onto Blackthorne Rd 0.8 mi
- 6. Turn left to stay on Blackthorne Rd 459 ft
- 7. Continue straight onto Albeni Cove Rd 0.3 mi

8. Sharp left - 161 ft

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Looking east toward upstream anchor from collection point near boat ramp.

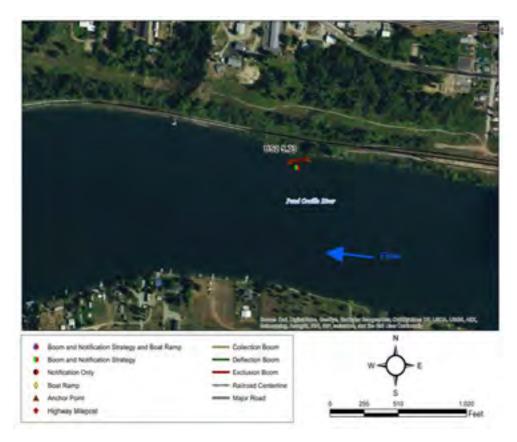


View of the boat ramp and parking area.

### **10th St Surface Water**

(POVA 1424.79) US2	5.73
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Site Lat Long:	48.177608 -116.918308 (http://www.google.com/maps/place/48.177608,-116.918308)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at 10th St Surface Water.	
Implementation:	Prevent contaminant from impacting sensitive area at 10th St Surface Water. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Boat access only. No boat launch facilities. Priest River Mouth boat launch is 1.3 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO	
Resources Targeted:	Town drain pipe.	
Watercourse:	Pend Oreille: gradient is low; substrate is sand; approx. width is 1125 ft.; approx. depth is 10 to 20 feet; channelized; slow moving.	



Suggested Equipment		
Quantity	Description	
150 ft.	Curtain Boom Tow Bridles	
As Appropriate		
200 ft.	Polypropylene Line	
24	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
1	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater) Page B-25 of 291



Nearest Cache: Sandpoint (22.5 miles) Second Cache: Bonners (55.9 miles)



Nearest Address: 5678 US 2 Priest River ID 83856

### Site Access

- Sandpoint, Idaho
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 22.2 mi
- 3. Turn left onto Wisconsin St 0.2 mi
- 4. Turn left onto Railroad Ave 394 ft
- Railroad Avenue, Priest River, Idaho



Looking downriver at exclusion point, facing Northwest.

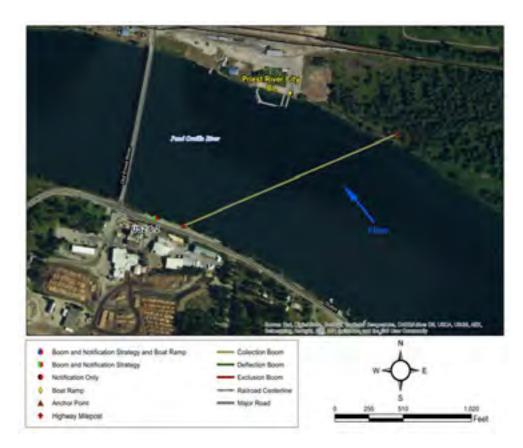


Looking at the exclusion point facing North.

### **Priest River- South**

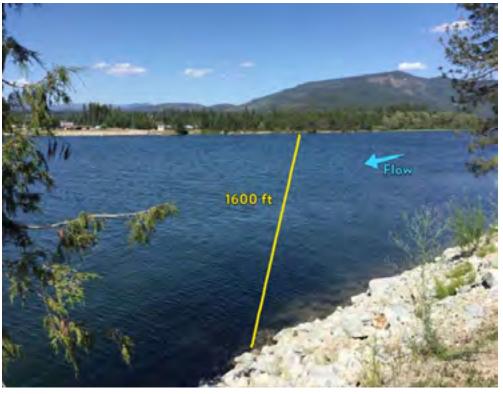
(POVA 1424.31)	US2 6.2
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Site Lat Long:	48.174342 -116.908027 (http://www.google.com/maps/place/48.174342,-116.908027
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Lake Pend Oreille flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Priest River Alternate. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to rock. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. Small pullout on north side of road on river left. Limited parking on narrow shoulder. No boat launch facilities. Priest River City boat launch is 0.5 miles away.
Field Notes:	<ul> <li>Use Priest River Boat Ramp for strategy placement.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>
Resources Targeted:	Bull Trout critical habitat, Albeni Falls Dam, wildlife habitat, municipal and irrigation water supplies, recreation.
Watercourse:	Lake Pend Oreille: gradient is low; substrate is sand; approx. width is 1125 ft.; approx. depth is 10 to 20 feet; channelized; slow moving.



Suggested Equipment		
Quantity	Description	
1600 ft.	Curtain Boom Tow Bridles	
As Appropriate	Vacuum Truck; Portable Skimmer	
2000 ft.	Polypropylene Line	
12	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
3	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater) Page B-28 of 291



Nearest Cache: Sandpoint (22.4 miles) Second Cache: Bonners (55.9 miles)



Nearest Address: 17728 Dufort Road Priest River ID 83856

#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St- 22.2 mi
- 3. Turn left onto Wisconsin St- 0.4 mi
- 4. Turn right onto Dufort Rd- 276 ft
- Priest River, Idaho



Looking upstream from River left collection point. Note the 20 foot rock bank down to water level.

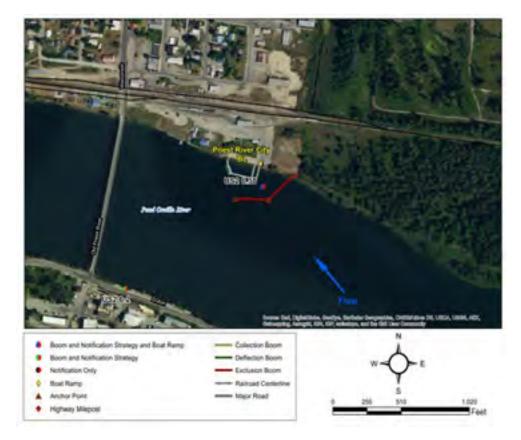


Looking at the exclusion point facing North.

### **Priest River City Water Intake**

Site Lat Long:	48.176514 -116.904111 (http://www.google.com/maps/place/48.176514,-116.904111)
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Priest River City Water Intake .
Implementation:	Pend Oreille river flow direction is to the west. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom Midstream to buoy. Vacuum truck access is good. Notify Priest River Intake.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is large. Large city park with large parking area and turnaround. Concrete boat launch. Priest River City boat launch is at site.
Field Notes	Popular recreation site during summer months.

Field Notes:	<ul> <li>Popular recreation site during summer months.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>
<b>Resources Targeted:</b>	Public water supply
Watercourse:	Lake Pend Oreille: gradient is low; substrate is gravel; approx. depth is over 20 feet; slow moving



Suggested Equipment		
Quantity	Description	
550 ft.	Curtain Boom Tow Bridles	
As Appropriate		
700 ft.	Polypropylene Line	
4	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
1	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

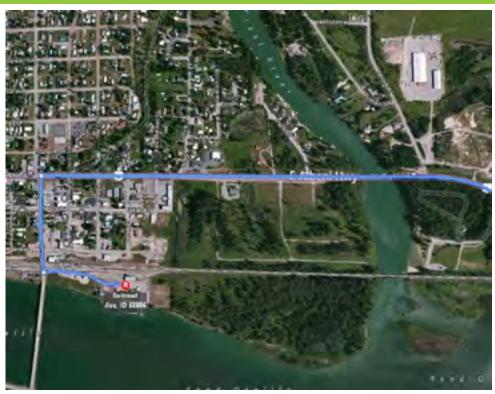
Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)

(POVA 1424.13) US2 6.38



Nearest Cache: Sandpoint (22.4 miles) Second Cache: Bonners (55.8 miles)

Chris Carr (208) 448-2123



Nearest Address: Railroad Avenue Priest River ID 83856

#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 22.2 mi
- 3. Turn left onto Wisconsin St 0.2 mi
- 4. Turn left onto Railroad Ave 394 ft
- Railroad Avenue, Priest River, Idaho



Looking North at boat ramp

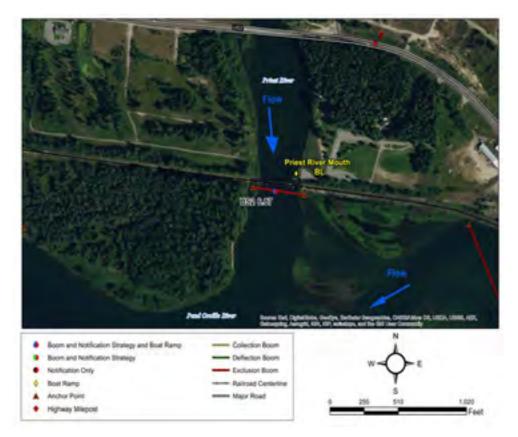


Looking south at staging area

#### **Priest River Mouth**

(POVA 1423.64)	US2 6.87
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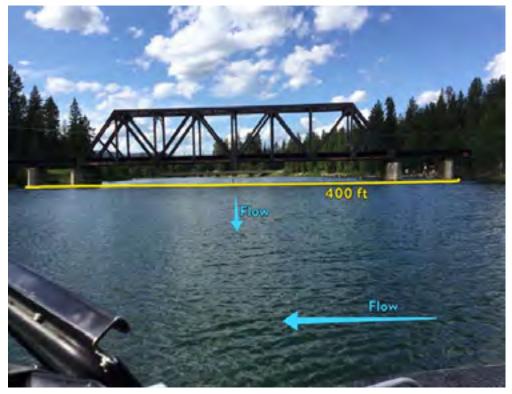
Site Lat Long:	48.177538 -116.893301 (http://www.google.com/maps/place/48.177538,-116.893301)			
Strategy Objective:	Notification and exclusion. Prevent contaminant from highway spill entering storm system and Pend Oreille River.			
Implementation:	Priest River flow direction is to the south. Secure upstream end of boom River Left to bridge piling. Secure downstream end of boom River Right to bridge piling.			
Site Safety Note:	Complete Job Safety Analysis.			
Staging Area:	On site staging is large. Concrete parking lot, boat ramp, and grass field. Priest River Mouth boat launch is at site.			
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO			
Resources Targeted:	Recreation, Threatened and Endangered Species			
Watercourse:	Priest River: gradient is low; substrate is sand; approx. width is 295 ft.; approx. depth is over 20 feet; slow moving			



Suggested Equipment				
Quantity	Description			
400 ft.	Curtain Boom Tow Bridles			
As Appropriate				
500 ft.	Polypropylene Line			
None	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
None	In Water Anchors			
As Appropriate	PFD work vests/rubber boots			
As Appropriate	Throw bags, first aid kit			
Jet boat/raft needed for strategy implementation? Y				

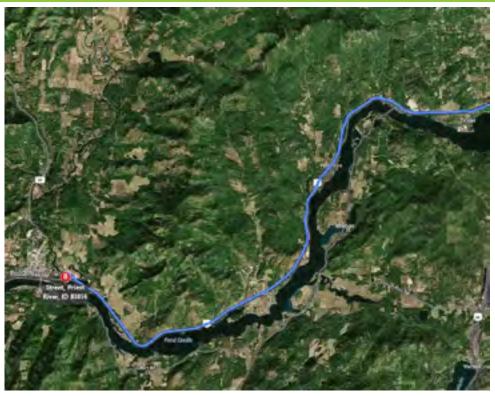
Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater) Page B-34 of 291		

#### **Priest River Mouth**



Nearest Cache: Sandpoint (21.3 miles) Second Cache: Bonners (54.7 miles)

### **Site-Specific Points of Contact**



Nearest Address: 6552 Highway 2 Priest River ID 83856

### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 21.4 mi
- 3. Destination will be on the left (look for signs for Priest River Park and Campground)
- Priest River Park/Campground



Mouth of the Priest River from the Pend Oreille River looking north



Looking at the staging area from the east

# (POVA 1423.0) US2 7.59

## **Priest River Mouth Slough**

Site Lat Long:	48.174057 -116.882533 (http://www.google.com/maps/place/48.174057,-116.882533)				
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Priest River Mouth Slough.				
Implementation:	Lake Pend Oreille flow direction is to the west. Use two segments of boom to protect sensitive area. Secure upstream end of boom East Shoreline to steel post. Secure downstream end of boom West Shoreline to steel post. Secure upstream end of second boom East Shoreline to steel post. Secure downstream end of second boom West Shoreline to steel post.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	No staging area. Priest River Mouth boat launch is 0.7 miles away.				
Field Notes:	<ul> <li>Site is only accessible from Priest River boat launch</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: Yes</li> <li>Locked Gate: NO</li> </ul>				
Resources Targeted:	Threatened and Endangered Species, Recreation				
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is 10 to 20 feet; slow moving				



in is 10 to 20 feet, slow moving					
Suggested Equipment					
Quantity	Quantity Description				
2800 ft.	Curtain Boom Tow Bridles				
As Appropriate					
3500 ft.	Polypropylene Line				
16	Steel Post Anchors				
As Appropriate	Post pounder, shovels, knife, wood saw				
None	In Water Anchors				
As Appropriate	priate PFD work vests/rubber boots				
As Appropriate	s Appropriate Throw bags, first aid kit				
Jet boat/raft needed for strategy implementation?					

Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
7 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater) Page B-37 of 291		



Nearest Cache: Sandpoint (20.6 miles) Second Cache: Bonners (54.0 miles)



Nearest Address: 6552 Highway 2 Priest River ID 83856

**Site Access** - Boat access, Use Priest River Mouth boat launch, directions below

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 22.2 mi
- 3. In the town of Priest River, ID, Turn left onto Wisconsin St- 0.2 mi
- 4. Turn left onto Railroad Ave

#### Priest River Park

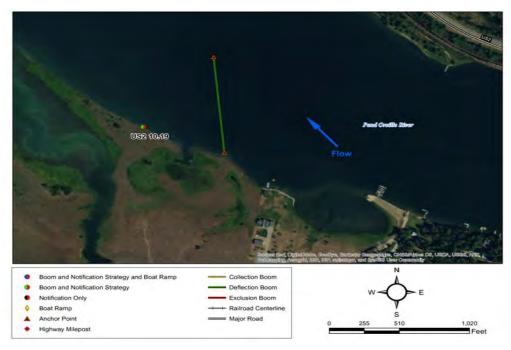


Looking upstream from island ( anchor point 1A )toward anchor point 1B



Looking from the island ( anchor point 2A ) toward river right. (anchor point 2B)

Site Lat Long:	<u>48.145506</u> -116.849023 (http://www.google.com/maps/place/48.145506,-116.849023)				
Strategy Objective:	Notification and deflection away from shoreline.				
Implementation:	Lake Pend Oreille flow direction is to the west. Deflect contaminant moving downstream away from shoreline at Carey Creek Game Management Area. Secure upstream end of boom River Left to steel post. Secure downstream end of boom Midstream to buoy.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	No staging area. Priest River City boat launch is 4.4 miles away.				
Field Notes:	<ul> <li>Only accessible by boat from Priest River boat launch</li> <li>4WD Access: None Seasonal Access Only: YES Locked Gate: None</li> </ul>				
Resources Targeted:	Threatened and Endangered Species				
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is 10 to 20 feet; slow moving				



Suggested Equipment			
Quantity	Description		
1100 ft.	Curtain Boom Tow Bridles		
As Appropriate			
1500 ft.	Polypropylene Line		
4	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
1	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	e Throw bags, first aid kit		
Jet boat/raft needed for strategy implementation?			
Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
3 / None	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)		

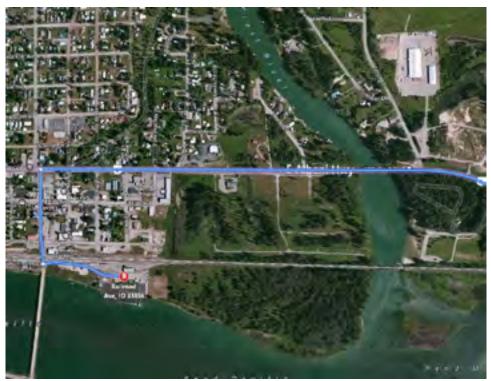
Visited on 2016-07-03

#### **Carey Creek Game Management Area**



Nearest Cache: Sandpoint (26.4 miles) Second Cache: Bonners (59.8 miles)

### **Site-Specific Points of Contact**



Nearest Address: 13943 Dufort Rd Priest River ID 83856

**Site Access** - Boat access, Use Priest River Mouth boat launch, directions below

Sandpoint, Idaho

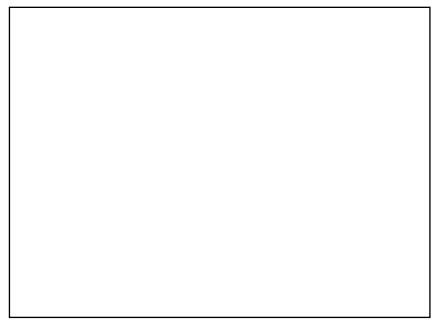
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 22.2 mi
- 3. In the town of Priest River, ID, Turn left onto Wisconsin St- 0.2 mi
- 4. Turn left onto Railroad Ave

#### Priest River Park

Page B-41 of 291

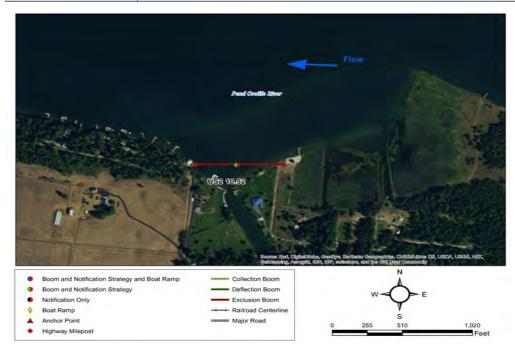


Looking southwest from the Pend Orellie River toward River left at the Carey Creek Wild life management Area



None

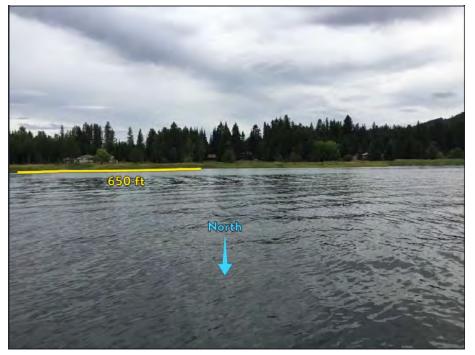
Site Lat Long:	48.143044 -116.833326 (http://www.google.com/maps/place/48.143044,-116.833326)				
Strategy Objective:	Notification and exclusion. Option A: deflect contamination in PO river from reaching banks. Option B: prevent Dufort Rd contamination from reaching river.				
Implementation:	Lake Pend Oreille flow direction is to the west. Secure upstream end of boom River Left to steel post. Secure downstream end of boom River Left to steel post. Notify private land owner.				
Site Safety Note:	Complete Job Safety Analysis. Probably inaccessible in low water.				
Staging Area:	On site staging is large. Grass and sand lot west of the slough. No boat launch facilities. Priest River City boat launch is 6.1 miles away.				
Field Notes:	• Private staging area see additional contacts in in notification box.				
	• 4WD Access: NO Seasonal Access Only: NO Locked Gate: NO				
Resources Targeted:	Baylor Ln. Slough wetlands				
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is 10 to 20 feet; slow moving				



Suggested Equipment				
Quantity		Description		
650 ft.		Curtain Boom Tow Bridles		
As Appropriate				
800 ft.	Polypropylene Line			
8	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
2	In Water Anchors			
As Appropriate		PFD work vests/rubber boots		
As Appropriate	e Throw bags, first aid kit			
Jet boat/	Jet boat/raft needed for strategy implementation?			
Suggested Personnel				
Quantity	Title (Function)			
1	Booming Team Leader			
1	Safety Representative			
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)			
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)			

Visited on 2016-07-02

#### **Baylor Ln Slough**



Nearest Cache: Sandpoint (28.1 miles) Second Cache: Bonners (56.8 miles)

**Site-Specific Points of Contact** 

Glenna Merrill, Land owner 208 437 3873



Nearest Address: 365 Baylor Ln Priest River ID 83856

#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn left onto Pine St 0.3 mi
- 3. Turn right onto S 1st Ave 0.2 mi
- 4. Turn left onto E Superior St 0.5 mi
- 5. Merge onto US-95 S 8.0 mi
- 6. Turn right onto Dufort Rd 12.9 mi
- 7. Turn right onto Baylor Ln 0.2 mi
- Baylor Lane, Priest River, Idaho



Baylor Ln Slough looking south from Pend Prielle River



Baylor Ln Slough staging area

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Cardboard Sector 2

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# NorthwestArea Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
Fire	US2 13.3	POVA 1417.28	Riley Creek Slough	No	US2 13.49
	US2 13.49	POVA 1417.06	<b>Riley Creek Recreation Area</b>	No	US2 13.49
	US2 14.37	POVA 1416.24	Laclede Public Water Supply	Yes	US2 14.37
2A Westside District	US2 16.06	UP Spokane RR 62.78	Cocolalla Creek Mouth	Unlikely	US2 14.37
Sector 2A Di	US2 16.29	UP Spokane RR 63.14	Morton Slough Boat Launch	No	US2 16.29
Sec	US2 17.12	POVA 1413.35	Morton Slough Game Management Area	No	US2 14.37
	US2 20.71	POVA 1409.86	Bay near Muskrat Lake	No	US95 470.21
Sector 2B Westside Fire District	US2 24.89	BNSF Newport 71.01	Dover Bay Slough	No	US2 25.15
	US2 25.16	BNSF Newport 71.31	Dover Bay Marine	No	US2 25.15
	US2 25.63	BNSF Newport 71.87	Dover Bay Water Intake	Yes	US2 25.15

# Sector 2A Westside Fire District

**US2 17.12** 

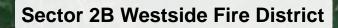
US2 16.29

US2 16.06

U52 13.3 US2 13.49 **US2 14.37** 

ALR.d-

10



US2 24.89

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2

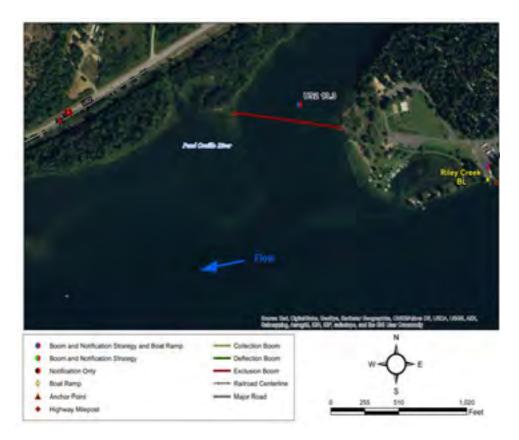
**US2 25.63** 

**US2 20.71** 

# **Riley Creek Slough**

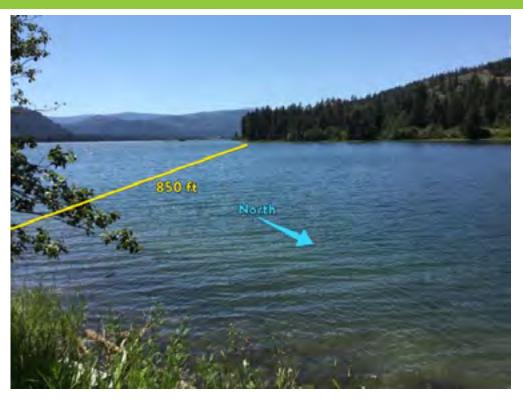
(POVA 1417.28) US2 13.3
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Site Lat Long:	48.160032 -116.778168 (http://www.google.com/maps/place/48.160032,-116.778168)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Lake Pend Oreille flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Riley Creek. Secure upstream end of boom to west shoreline. Secure downstream end of boom East Shoreline to steel post.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Riley Creek boat launch is 0.2 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: YES • Locked Gate: NO	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is over 20 feet; slow moving	

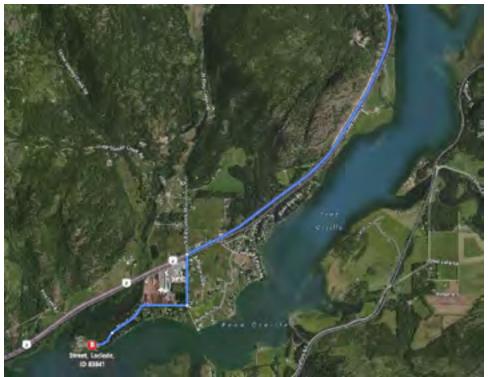


Suggested Equipment	
Quantity	Description
850 ft.	Curtain Boom Tow Bridles
As Appropriate	
1000 ft.	Polypropylene Line
No	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)



Nearest Cache: Sandpoint (15.1 miles) Second Cache: Bonners (48.5 miles)



Nearest Address: 125 Willow Crk Rd Priest River ID 83856

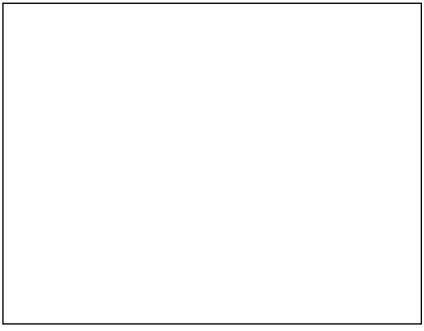
#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St. 0.2 mi
- 2. Turn right onto US-2 W/Pine St 13.8 mi
- 3. Turn left onto Riley Creek Rd 0.4 mi
- 4. Turn right onto Riley Creek Park Rd 0.8 mi
- Riley Creek Park Drive, Priest River, Idaho



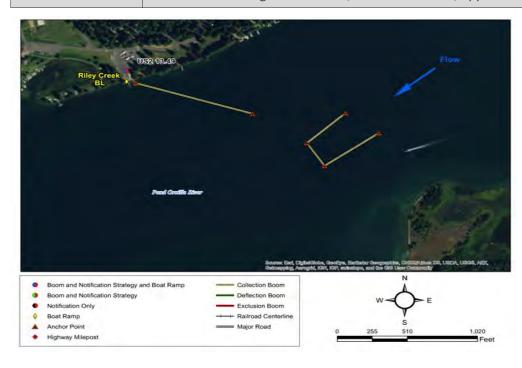
Looking West at slough



# **Riley Creek Recreation Area**

(POVA 1417.06)	US2 13.49
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Site Lat Long:	<u>48.159216</u> -116.772256 (http://www.google.com/maps/place/48.159216,-116.772256)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Lake Pend Oreille flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Riley Creek Recreation Area. Secure upstream end of boom Midstream to buoy. Secure downstream end of boom North Shoreline to steel post. Secure upstream end of second boom Midstream to boat. Secure downstream end of second boom Midstream to boat. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Large asphalt parking lot with large staging area. Concrete boat launch. Riley Creek boat launch is at site.	
Field Notes:	4WD Access: NO Seasonal Access Only: NO Locked Gate: NO	
Resources Targeted:	Recreation, Reservoir, Threatened and Endangered Species	
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is over 20 feet; slow moving	

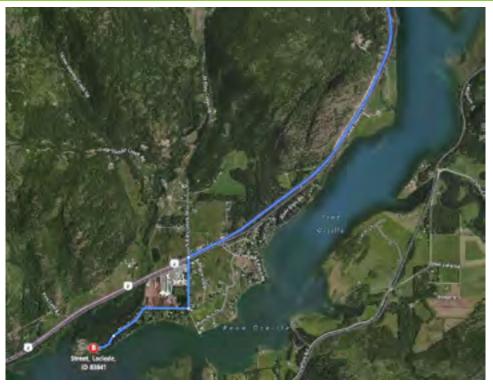


Suggested Equipment		
Quantity Description		
1000 ft.	Curtain Boom Tow Bridles	
As Appropriate	Portable Skimmer; Vacuum Truck; Absorbent Boom	
1250 ft.	Polypropylene Line	
4	Steel Post Anchors	
As Appropriate	e Post pounder, shovels, knife, wood saw	
3	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	e Throw bags, first aid kit	
Jet boat/	let boat/raft needed for strategy implementation? Y	
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
2 / 2	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	

Visited on 2016-06-30



Nearest Cache: Sandpoint (14.9 miles) Second Cache: Bonners (48.3 miles)



Nearest Address: 1097 Riley Crk Pk Dr Priest River ID 83856

#### Site Access

Sandpoint, ID

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 13.8 mi
- 3. Turn left onto Riley Creek Rd 0.4 mi
- 4. Turn right onto Riley Creek Park Rd 1.0 mi
- Riley Creek Recreation Area, Laclede, Idaho



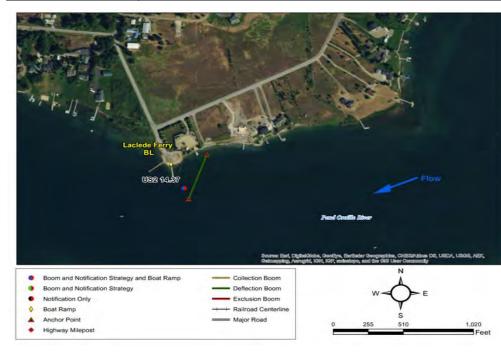
Riley Creek Recreation Area boat launch



Riley Creek Recreation Area staging area

Laclede	<b>Public</b>	Water	Sup	vla
				/

Site Lat Long:	48.160811 -116.753563 (http://www.google.com/maps/place/48.160811,-116.753563)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Laclede boat launch.	
Implementation:	Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom Midstream to buoy. Vacuum truck access is good. Notify Laclede Water Intake.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Large turn around with ample parking. Concrete boat launch. Laclede Ferry boat launch is at site.	
Field Notes:	4WD Access: NO Seasonal Access Only: YES Locked Gate: NO	
Resources Targeted:	Public water supply	
Watercourse:	slow moving	

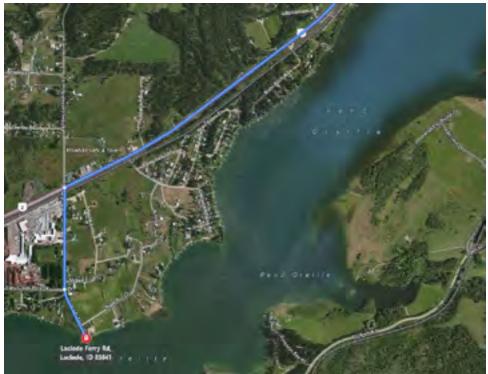


Suggested Equipment		
Quantity	Description	
400 ft.	Curtain Boom Tow Bridles	
As Appropriate		
500 ft.	Polypropylene Line	
4	Steel Post Anchors	
As Appropriate	e Post pounder, shovels, knife, wood saw	
1	In Water Anchors	
As Appropriate	e PFD work vests/rubber boots	
As Appropriate	e Throw bags, first aid kit	
Jet boat/	Jet boat/raft needed for strategy implementation? Y	
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	

Visited on 2016-06-30



Nearest Cache: Sandpoint (14.2 miles) Second Cache: Bonners (47.6 miles)



Nearest Address: 705 River Run Dr Laclede ID 83841

## Site Access

Sandpoint, ID

- 1. Head south on N Fifth Ave Toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 13. 8 mi
- 3. Turn left onto Riley Creek Rd 0.4 mi
- 4. Continue onto Laclede Ferry Rd 0.2 mi
- Laclede Ferry Road, Laclede, Idaho



From Laclete boat launch looking south

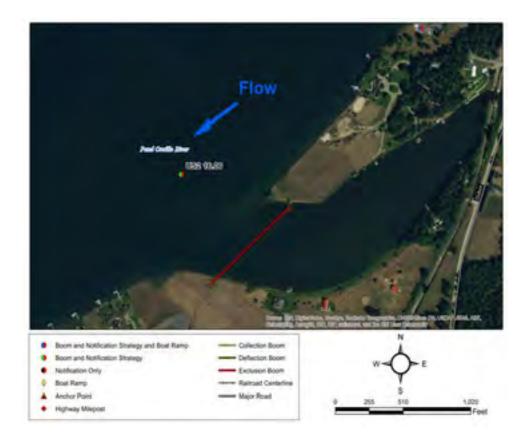


Laclete boat launch staging area

# (UP Spokane Railroad 63.14) US2 16.06

#### **Cocolalla Creek Mouth**

Site Lat Long:	48.17539 -116.720867 (http://www.google.com/maps/place/48.17539,-116.720867)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at at Morton Slough or from reaching Pend Oreille river from slough.	
Implementation:	Lake Pend Oreille flow direction is to the southwest. Secure upstream end of boom River Left to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Use boat ramp upstream at Morton Slough Boat Ramp for access and staging. No boat launch facilities. Morton Slough boat launch is 1.9 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO	
Resources Targeted:	Morton slough, wildlife habitat, recreation	
Watercourse:	Lake Pend Oreille: gradient is low; substrate is sand; approx. width is 800 ft.; approx. depth is 10 to 20 feet; channelized; slow moving	

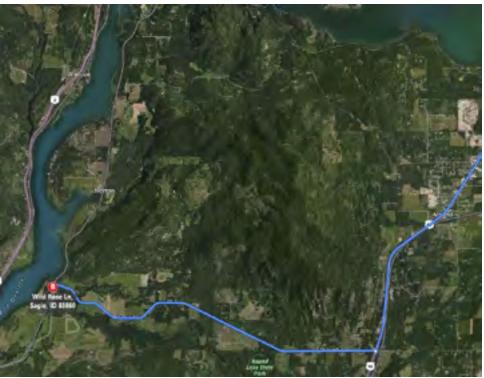


Suggested Equipment	
Quantity	Description
1000 ft.	Curtain Boom Tow Bridles
As Appropriate	
1000 ft.	Polypropylene Line
10	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
1	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation?	

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	



Nearest Cache: Sandpoint (16.8 miles) Second Cache: Bonners (49.1 miles)



Nearest Address: 157 Wild Rose Ln Sagle ID 83860

### Site Access

Sandpoint, ID
1. Head south on N Fifth Ave toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn eft onto E Superior St - 0.5 mi
5. Merge onto US-95 S - 8.0 mi
6. Turn right onto Dufort Rd - 5.7 mi
7. Turn right onto Lakeshore Dr - 52 ft
8. Turn left onto Wild Rose Ln - 194 ft
Wild Rose Lane, Sagle, Idaho



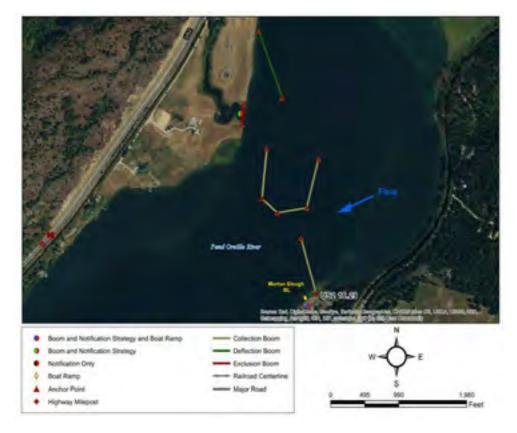
Looking north across the mouth of the slough.



Looking South towards Morton's slough, nearest upstream anchor site.

## Morton Slough Boat Launch

Site Lat Long:	48.180406 -116.714421 (http://www.google.com/maps/place/48.180406,-116.714421)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Lake Pend Oreille flow direction is to the southwest. Deploy collection boom and initiate contaminant recovey at Morton Slough Boat Launch. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	On site staging is large. Large parking area for vehicles and equipment adjacent to boat ramp. Concrete boat launch. Morton Slough boat launch is at the site.		
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO		
Resources Targeted:	Bull Trout critical habitat, downstream municipal and irrigation water supplies, recreation, wildlife habitat		
Watercourse:	Lake Pend Oreille: gradient is low; approx. width is 3000 ft.; approx. depth is 10 to 20 feet; channelized; slow moving		

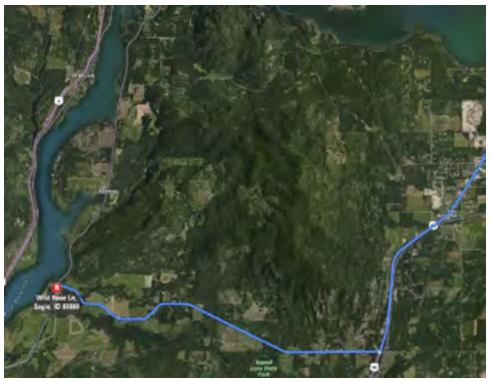


Suggested Equipment			
Quantity	Description		
3700 ft.	Curtain Boom Tow Bridles		
As Appropriate			
4500 ft.	Polypropylene Line		
10	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
7	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	Throw bags, first aid kit		
Jet boat/raft needed for strategy implementation?			

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
2 / 2	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	



Nearest Cache: Sandpoint (15.0 miles) Second Cache: Bonners (47.3 miles)



Nearest Address: 6898 Dufort Rd Sagle ID 83860

#### Site Access

Sandpoint, ID
1. Head south on N Fifth Ave toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn eft onto E Superior St - 0.5 mi
5. Merge onto US-95 S - 8.0 mi
6. Turn right onto Dufort Rd - 5.7 mi
7. Turn right onto Lakeshore Dr - 52 ft
8. Turn left onto Wild Rose Ln - 194 ft
Wild Rose Lane, Sagle, Idaho



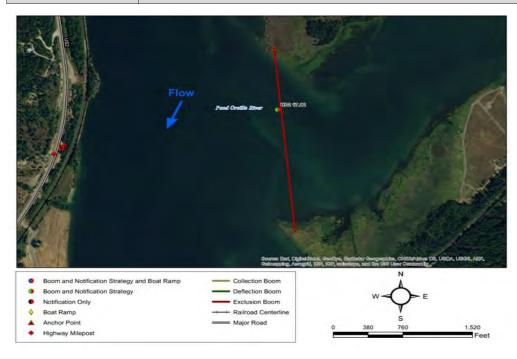
View from River left collection point upstream towards River right anchor.



View from boat ramp of parking area.

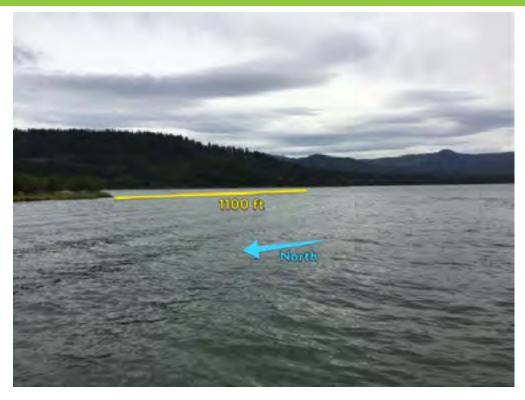
<b>Morton</b>	Slough	Game	Manag	ement Area

Site Lat Long:	48.196842 -116.710277 (http://www.google.com/maps/place/48.196842,-116.710277)		
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Upper Morton Slough.		
Implementation:	Lake Pend Oreille flow direction is to the south. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom South Shoreline to steel post.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	No staging area. Laclede Ferry boat launch is 3.2 miles away.		
Field Notes:	<ul> <li>Only accessible by boat from Morton Slough boat launch</li> <li>4WD Access: None Seasonal Access Only: YES Locked Gate: None</li> </ul>		
Resources Targeted:	Recreation, Threatened and Endangered Species		
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is over 20 feet; slow moving		

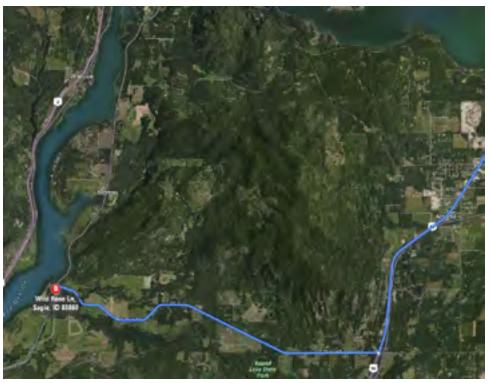


Suggested Equipment			
Quantity		Description	
2500 ft.		Curtain Boom Tow Bridles	
As Appropriate			
3000 ft.		Polypropylene Line	
8		Steel Post Anchors	
As Appropriate		Post pounder, shovels, knife, wood saw	
None		In Water Anchors	
As Appropriate		PFD work vests/rubber boots	
As Appropriate		Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		eeded for strategy implementation? Y	
Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
7 / None	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)		

Visited on 2016-07-02



Nearest Cache: Sandpoint (11.0 miles) Second Cache: Bonners (44.4 miles)



Nearest Address: 5761 Wild Rose Lane Sagle ID 83860

#### Site Access

Sandpoint, ID
1. Head south on N Fifth Ave toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn eft onto E Superior St - 0.5 mi
5. Merge onto US-95 S - 8.0 mi
6. Turn right onto Dufort Rd - 5.7 mi
7. Turn right onto Lakeshore Dr - 52 ft
8. Turn left onto Wild Rose Ln - 194 ft
Wild Rose Lane, Sagle, Idaho



Mouth of Upper Morton Slough from the Pend Oreille River looking south from the northern point.

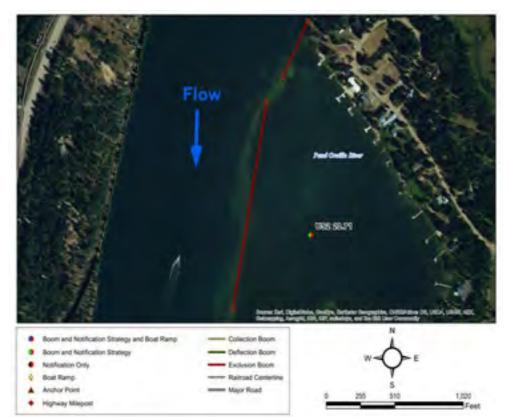


Looking from an upstream point down on the mouth of Upper Morton Slough, facing southeast.

#### Bay near Muskrat Lake

(POVA 1409.86)	US2 20.71
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Site Lat Long:	48.242393 -116.686122 (http://www.google.com/maps/place/48.242393,-116.686122)				
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Bay near Muskrat Lake.				
Implementation:	Use two boom segments to protect sensitive area. Secure upstream end of boom River Left to tree. Secure downstream end of boom River Left to steel post. Secure upstream end of second boom River Left to steel post. Secure downstream end of second boom River Left to steel post.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	No staging area. No boat launch facilities. Springy Point boat launch is 6.6 miles away.				
Field Notes:	<ul> <li>Change in water levels looks like it can greatly effect the status of the island and points that define this bay. A possibility of using a post on the River left side of the main channel as a midpoint anchor (it is visible in some of the pictures).</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>				
Resources Targeted:	Wildlife, Recreation				
Watercourse:	Lake Pend Oreille:				

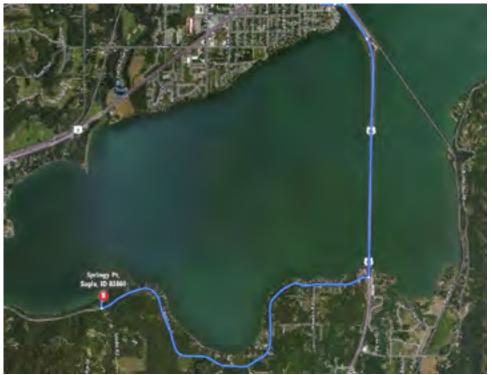


tain Boom Tow Bridles			
ypropylene Line			
Steel Post Anchors			
Post pounder, shovels, knife, wood saw			
Vater Anchors			
O work vests/rubber boots			
Throw bags, first aid kit			

Suggested Personnel			
Quantity	Title (Function)		
2	Booming Team Leader		
1	Safety Representative		
6 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Boat Operator)		



Nearest Cache: Sandpoint (12.8 miles) Second Cache: Bonners (45.1 miles)



Nearest Address: 5 Swan Shores Dr Sagle ID 83860

#### Site Access

Sandpoint, Idaho
1. Head south on N Fifth Ave toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn left onto E Superior St - 0.5 mi
5. Merge onto US-95 S - 1.9 mi
6. Turn right onto Lakeshore Dr - 3.1 mi
7. Turn right onto Springy Point - 292 ft
Springy Point, Sagle, Idaho



Looking at the upstream or northern entrance to the Bay near Muskrat lake, facing east.

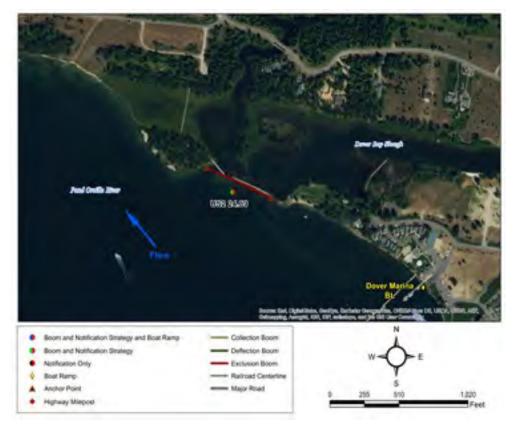


Looking towards the Bay near Muskrat Lake, so that both entrances to the Bay are visible, facing east.

## (BNSF Newport 71.01) US2 24.89

### **Dover Bay Slough**

Site Lat Long:	48.246394 -116.620663 (http://www.google.com/maps/place/48.246394,-116.620663)				
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Dover Bay Slough.				
Implementation:	Lake Pend Oreille flow direction is to the west. Secure upstream end of boom East Shoreline to tree. Secure downstream end of boom West Shoreline to steel post. Notify Dover and Dover Bay Marina.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	On site staging is large. Grass field on peninsula east of Dover Bay Slough. Dover Marina boat launch is 1 mile away.				
Field Notes:	<ul> <li>Use bridge across slough to deploy the Boom</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>				
Resources Targeted:	Threatened and Endangered Species, Recreation				
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is 5 to 10 feet				

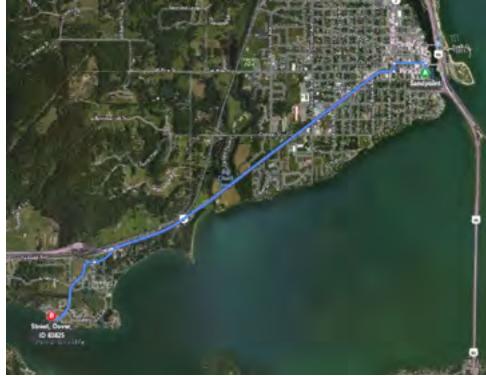


Suggested Equipment			
Quantity	Description		
550 ft.	Curtain Boom Tow Bridles		
As Appropriate			
700 ft.	Polypropylene Line		
3	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
None	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	Throw bags, first aid kit		
Jet boat/raft needed for strategy implementation? N			

Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Brittygater)		



Nearest Cache: Sandpoint (3.7 miles) Second Cache: Bonners (37.1 miles)



Nearest Address: 699 Lakeshore Ave Dover ID 83825

**Site Access** - Boat access, use Dover Bay Marina, directions below

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 2.7
- 3. Turn left onto Old Hwy U.S. 2- 0.2 mi
- 4. Continue onto Dover Bay Blvd- 0.3 mi
- 5. Continue onto Dover Bay Pkwy- 0.2 mi
- 6. Turn right onto Lakeshore Avenue- 492 ft
- 7. Turn left to reach destination

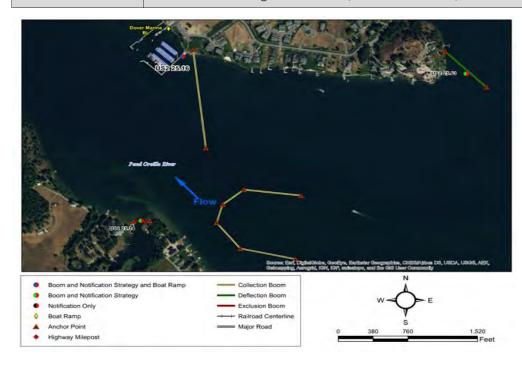


Dover Bay Slough From Lake Pend Oreille looking North



Staging area from play ground looking west

Site Lat Long:	48.244013 -116.61391 (http://www.google.com/maps/place/48.244013,-116.61391)			
Strategy Objective:	Notification and contaminant collection and recovery.			
Implementation:	Lake Pend Oreille flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Dover Bay Marina. Secure upstream end of boom Midstream to buoy. Secure downstream end of boom North Shoreline to steel post. Secure upstream end of second boom Midstream to boat. Secure downstream end of second boom Midstream to boat. Vacuum truck access is good. Notify Dover Bay Marina.			
Site Safety Note:	Complete Job Safety Analysis. Be cautious of public traffic.			
Staging Area:	On site staging is large. Large parking lot on the north shore, between the condominiums and the club pool. Concrete boat launch. Dover Marina boat launch is 0.1 miles away.			
Field Notes:	<ul> <li>Exclusion boom around the marina. Private property</li> <li>4WD Access: NO Seasonal Access Only: NO Locked Gate: NO</li> </ul>			
Resources Targeted:	Recreation, Reservoir, Marina, Threatened and Endangered Species			
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; slow moving			

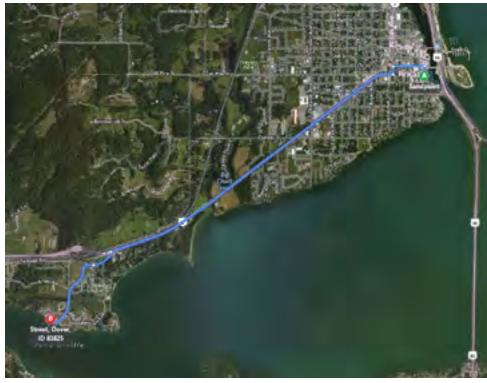


Suggested Equipment			
Quantity	Description		
1000 ft.	Curtain Boom Tow Bridles		
As Appropriate	Portable Skimmer; Vacuum Truck; Absorbent Boom		
1250 ft.	Polypropylene Line		
4	Steel Post Anchors		
As Appropriate	e Post pounder, shovels, knife, wood saw		
3	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	e Throw bags, first aid kit		
Jet boat/r	raft needed for strategy implementation?		
Suggested Personnel			
Quantity	Title (Function)		
2	Booming Team Leader		
1	Safety Representative		
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
2 / 2	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)		

Visited on 2016-06-30



Nearest Cache: Sandpoint (3.4 miles) Second Cache: Bonners (36.8 miles)



Nearest Address: 675 Lakeshore Ave Dover ID 83825

#### Site Access

- Sandpoint, Idaho
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St- 2.7
- 3. Turn left onto Old Hwy U.S. 2- 0.2 mi
- 4. Continue onto Dover Bay Blvd- 0.3 mi
- 5. Continue onto Dover Bay Pkwy- 0.2 mi
- 6. Turn right onto Lakeshore Avenue- 492 ft
- 7. Turn left to reach destination



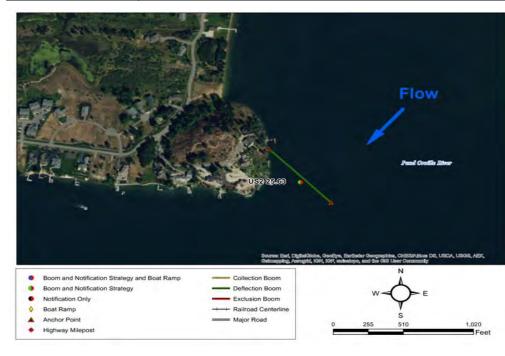
Dover Bay Marina staging area looking north



Lake Pend Oreille from the north shore looking south

## Dover Bay Water Intake

Site Lat Long:	48.244195 -116.601173 (http://www.google.com/maps/place/48.244195,-116.601173)				
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Dover Bay Water Intake.				
Implementation:	Secure upstream end of boom West Shoreline to steel post. Secure downstream end of boom Midstream to buoy. Notify City of Dover.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	No staging area. Private boat launch at Dover Bay Marina. No boat launch facilities. Dover Marina boat launch is 0.7 miles away.				
Field Notes:	<ul> <li>Surface water supply for Dover. Intake on bottom of lake. Notify City of Dover Water operator (208)-263-4633 to stop drawing water.</li> <li>4WD Access: NO Seasonal Access Only: YES Locked Gate: NO</li> </ul>				
Resources Targeted:	Public water supply				
Watercourse:	Lake Pend Oreille:				

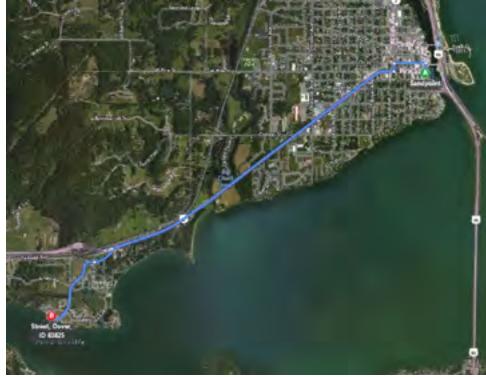


Suggested Equipment			
Quantity Description			
800 ft.	Curtain Boom Tow Bridles		
As Appropriate			
1000 ft.	Polypropylene Line		
4	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
1	In Water Anchors		
As Appropriate	e PFD work vests/rubber boots		
As Appropriate	e Throw bags, first aid kit		
Jet boat/	Jet boat/raft needed for strategy implementation?		
Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)		

Visited on 2016-07-02



Nearest Cache: Sandpoint (3.3 miles) Second Cache: Bonners (36.7 miles)



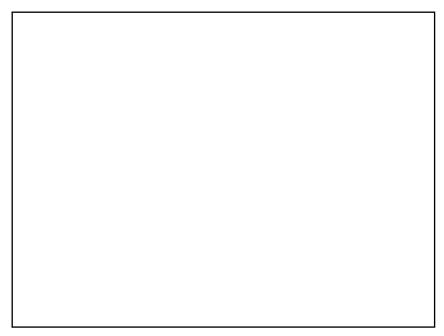
Nearest Address: 105 Shannon Ln Dover ID 83825

#### Site Access

- Sandpoint, Idaho
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 2.7 mi
- 3. Turn left onto Old Hwy U.S. 2 0.1 mi
- 4. Turn left onto 3rd St 0.2 mi
- 5. Turn left onto Jackson Ave 190 ft
- 6. Turn right onto Lakeshore Avenue 0.3 mi
- 7. Turn left onto Shannon Ln 0.1 mi
- Shannon Lane, Sagle, Idaho



Potential Dover Bay Water Intake from lake Pend Orellie looking north west



None

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Cardboard Sector 3

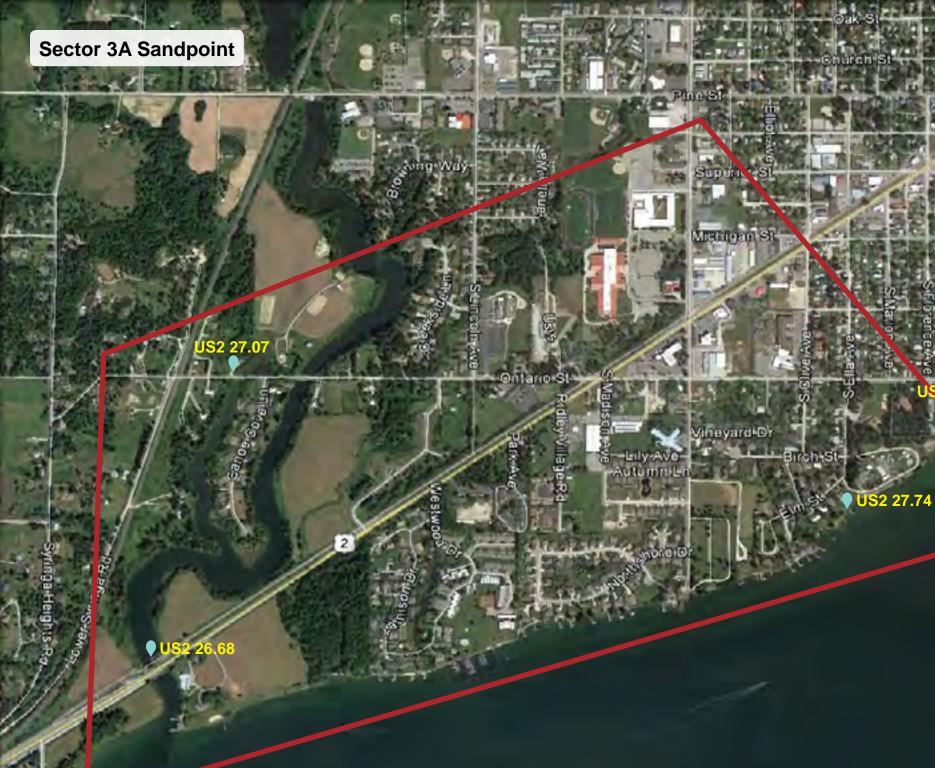
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# Northwest Area Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
Sector 3A Sandpoint	US2 26.68	BNSF Newport 72.79	Chuck Slough	No	US2 25.15
	US2 27.07	BNSD Newport 73.29	Ontario Street West	No	US2 25.15
	US2 27.17	BNSF Newport 73.33	Ontario Street East	No	US2 25.15
	US2 27.74	BNSF Spokane 3.32	South Ella Ave Culvert	No	US95 473.87
point	US2 28.02	BNSF Spokane 3.33	Memorial Park Culvert	No	US95 473.87
	US2 28.17	BNSF Spokane 3.35	South Euclid Ave Culvert	No	US95 473.87
	US2 28.31	BNSF Spokane 3.37	South 4 <sup>th</sup> Ave Culvert	No	US95 473.87
	Us2 28.36	BNSF Spokane 3.38	South 3 <sup>rd</sup> Ave Culvert	No	US95 473.87
Sector 3B Sandpoint	US95 472.85	BNSF Spokane 4.28	Long Bridge	Yes	US95 471.08
Sector	US95 473.84	BNSF Spokane 3.4	Sandpoint Public Works Water Intake	Yes	US95 473.87
	US95 473.9	BNSF Spokane 3.17	Sandpoint City Beach and Marina	Yes	US95 473.87
	US95 473.91	BNSF Spokane 3.29	Mouth of Sand Creek	Yes	US95 473.87
	US95 474.31	BNSF Spokane 3.13	Lower Sand Creek	No	US95 473.87

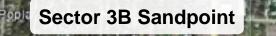
# Northwest Area Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
Sector 3C Sandpoint	US95 474.41	BNSF Spokane 3.02	East Cedar Street Culvert #1	No	US95 473.87
	US95 474.45	BNSF Spokane 2.98	East Cedar Street Culvert #2	No	US95 473.87
	US95 474.46	BNSF Spokane 2.97	East Cedar Street Culvert #3	No	US95 473.87
ectc	US95 474.78	BNSF Spokane 2.9	Alder Street Culvert	No	US95 473.87
×.	US95 475.09	BNSF Kootenai 1402.96	North 5 <sup>th</sup> Ave Surface Water Outflow #1	No	US95 473.87
	US95 475.21	BNSF Kootenai 1402.75	North 5 <sup>th</sup> Ave Surface Water Outflow #2	No	US95 473.87
	US95 475.22	BNSF Kootenai 1402.74	North 5 <sup>th</sup> Ave Surface Water Outflow #3	No	US95 473.87
	US95 475.3	BNSF Kootenai 1402.66	Sand Creek Trestle	No	US95 473.87
nt	US95 475.32	BNSF Kootenai 1402.63	Visitor Center Culvert #1	No	US95 473.87
Sector 3D Sandpoint	US95 475.32	BNSF Kootenai 1402.6	Visitor Center Culvert #2	No	US95 473.87
tor 3D (	US95 475.4	BNSF Kootenai 1402.58	Visitor Center Culvert #3	No	US95 473.87
Sect	US95 475.41	BNSF Kootenai 1402.55	Visitor Center Culvert #4	No	US95 473.87
	US95 475.42	BNSF Kootenai 1402.57	Baldy Mountain Road Surface Water Outflow #2	No	US95 473.87
	US95 475.5	BNSF Kootenai 1402.53	Baldy Mountain Road Surface Water Outflow @1	No	US95 473.87
	US95 475.53	BNSF Kootenai 1402.33	North Boyer Ave & Baldy Mountain Road	No	US95 473.87



2

Page B-86 of 291



2



**US2 28.31** 

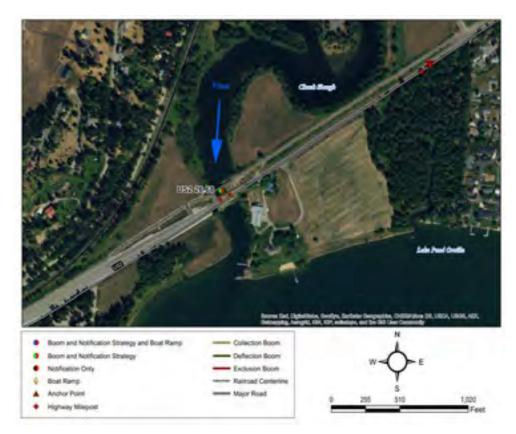
US2 28.02

U 395 472.85

**US95 473.84** 

## **Chuck Slough**

Site Lat Long:	48.258596 -116.586053 (http://www.google.com/maps/place/48.258596,-116.586053)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Chuck Slough flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Chuck Slough. Secure upstream end of boom River Left to steel post. Secure downstream end of boom River Right to steel post. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis. Traffic control on highway is necessary.	
Staging Area:	No staging area. Use small pullout on west side of bridge for parking. Access river by steep, rocky trails. Dover Marina boat launch is 1.8 miles away.	
Field Notes:	<ul> <li>Site is a natural exclusion area at full pool with culvert submerged. At lower flows booming is necessary to prevent oil from entering culvert and reservoir.</li> <li>Site could be used for spill to chuck slough but will naturally collect oil at summer lake levels.</li> </ul>	
Resources Targeted:	Reservoir	
Watercourse:	Chuck Slough: gradient is low; substrate is gravel; approx. width is 84 ft.; approx. depth is 5 to 10 feet; slow moving	

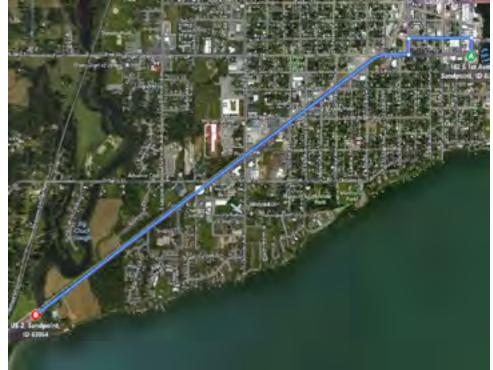


Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
70 ft.	Polypropylene Line
8	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Boat Operator)	



Nearest Cache: Sandpoint (1.6 miles) Second Cache: Bonners (35.0 miles)



Nearest Address: 26808 Highway 2 Sandpoint ID 83864

#### Site Access

Sandpoint, ID

- 1. Head south on N Fifth Ave toward Cedar St- 0.2 mi
- 2. Turn right onto US-2 W/Pine St- 1.8 mi



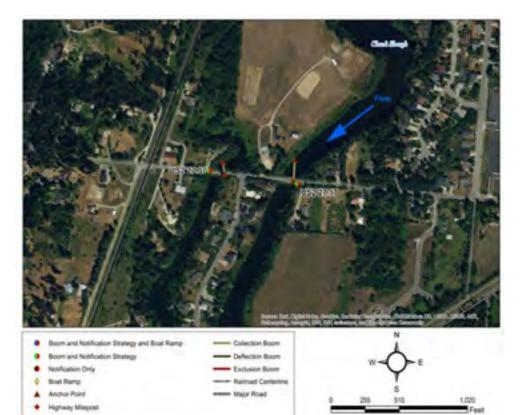
Looking south from walking bridge



Small pullout on west side of bridge.

#### **Ontario St West**

Site Lat Long:	48.265836 -116.583495 (http://www.google.com/maps/place/48.265836,-116.583495)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Chuck Slough flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Ontario St West. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis. Poor river access due to dense vegetation and steep slope.	
Staging Area:	No staging area. Vacuum truck access from narrow road. No other staging options. Dover Marina boat launch is 2.3 miles away.	
Field Notes:	<ul> <li>Access to upstream anchor is difficult due to private land and dense vegetation. Small inflatable boat would be advised.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Recreation, Reservoir, Threatened and Endangered Species	
Watercourse:	Chuck Slough: gradient is low; substrate is mud; approx. width is 150 ft.; approx. depth is 5 to 10 feet; slow moving	

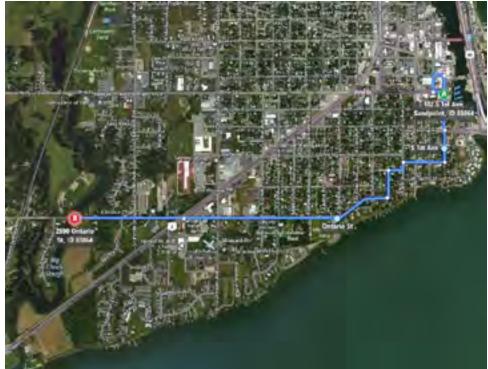


Suggested Equipment		
Quantity	Description	
100 ft.	Curtain Boom Tow Bridles	
As Appropriate		
125 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 2	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Teshe (Sayift yater)	



Nearest Cache: Sandpoint (1.3 miles) Second Cache: Bonners (34.8 miles)



Nearest Address: 2690 Ontario St Dover ID 83825

#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 1.0 mi
- 3. Turn right onto Ontario St 0.5 mi

2690 West Ontario Street, Sandpoint, Idaho



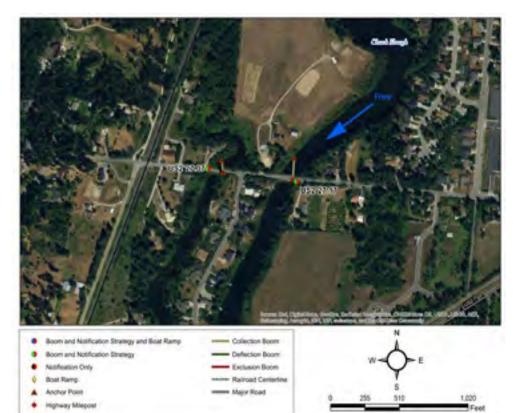
Looking east at Ontario st.



Looking north at Chuck Slough

#### **Ontario St East**

Site Lat Long:	48.265752 -116.580771 (http://www.google.com/maps/place/48.265752,-116.580771)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Chuck Slough flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Ontario St East. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Narrow two lane road with culvert underpass for slough. Dover Marina boat launch is 3.1 miles away.	
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO	
Resources Targeted:	Recreation, Threatened and Endangered Species	
Watercourse:	Chuck Slough: gradient is low; substrate is mud; approx. width is 150 ft.; approx. depth is 5 to 10 feet; slow moving	

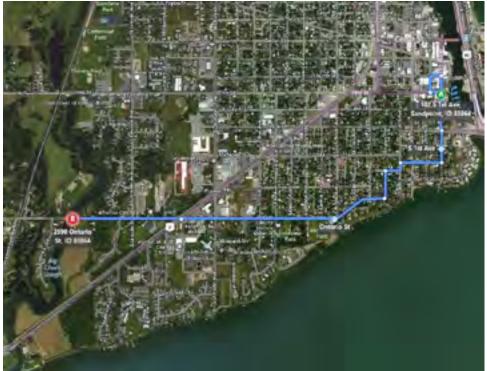


Suggested Equipment		
Quantity	Description	
150 ft.	Curtain Boom Tow Bridles	
As Appropriate		
200 ft.	Polypropylene Line	
8	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Teshe (Sygiftygater)	



Nearest Cache: Sandpoint (1.2 miles) Second Cache: Bonners (34.6 miles)



Nearest Address: 2355 Ontario St Dover ID 83825

#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 1.0 mi
- 3. Turn right onto Ontario St 0.3 mi
- 2355 Ontario St, Sandpoint, Idaho



Looking east at Ontario st.



Looking north at Chuck Slough

#### S. Ella Ave Culvert

Site Lat Long:	48.262676 -116.562306 (http://www.google.com/maps/place/48.262676,-116.562306)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Deploy collection boom and initiate contaminant recovey at S. Ella Ave Culvert. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom North Shoreline to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Private Property.No boat launch facilities. Sandpoint City Beach boat launch is 1.6 miles away.	
Field Notes:	<ul> <li>Private Property</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Lake Pend Oreille:	

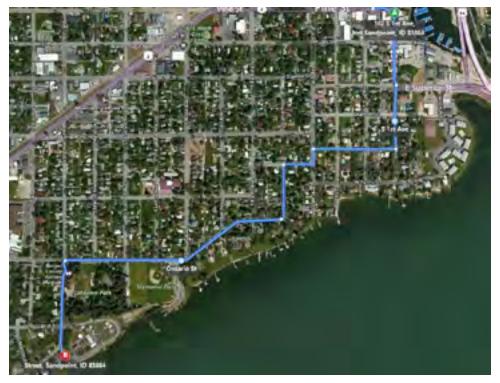


Suggested Equipment		
Quantity	Description	
50 ft.	Curtain Boom Tow Bridles	
As Appropriate		
75 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Boat Operator)



Nearest Cache: Sandpoint (0.8 miles) Second Cache: Bonners (34.2 miles)



Nearest Address: 1101 Elm St Sandpoint ID 83864

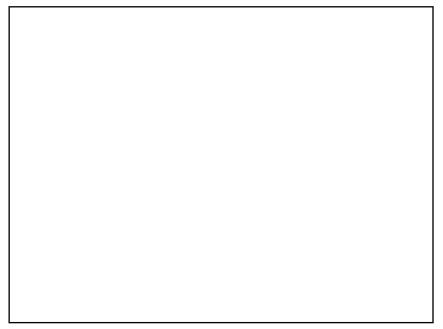
#### Site Access

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto US-2 W/Pine St 0.5 mi
- 3. Turn left onto S Ella Ave 0.4 mi
- 4. Continue onto Elm St 3 ft
- 1101 Elm St, Sandpoint, Idaho



Picture taken facing water treatment plant.



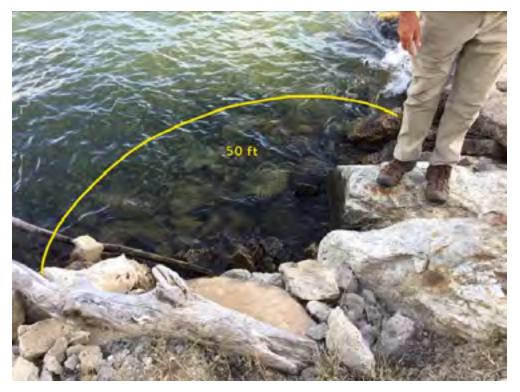
#### **Memorial Park Culvert**

Site Lat Long:	48.265041 -116.556933 (http://www.google.com/maps/place/48.265041,-116.556933)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at Memorial Park Outflow. Secure upstream end of boom North Shoreline to steel post. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. Adjacent parking lot should be utilized. No boat launch facilities. Sandpoint City Beach boat launch is 1.4 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	Lake Pend Oreille:

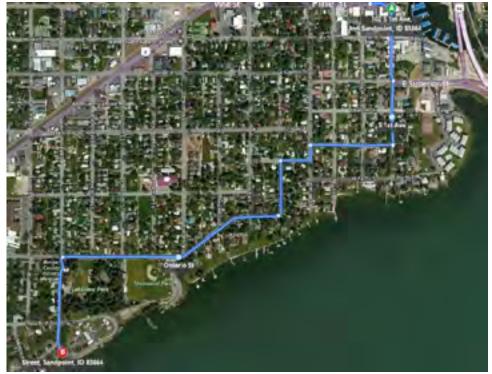


Suggested Equipment		
Quantity	Description	
50 ft.	Curtain Boom Tow Bridles	
As Appropriate		
75 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? N		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Swift water)	



Nearest Cache: Sandpoint (0.7 miles) Second Cache: Bonners (33.9 miles)



Nearest Address: 631 Lakeview Blvd Sandpoint ID 83864

#### Site Access

- Sandpoint, Idaho
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto Pine St 220 ft
- 3. Turn let onto Euclid Ave 0.4 mi
- 4. Turn right onto Lakeview Blvd 0.1 mi



View of culvert. Currently underwater, but fluctuates with lake level from dam use.



View of culvert.

#### **S Euclid Ave Culvert**

Site Lat Long:	48.265975 -116.553976 (http://www.google.com/maps/place/48.265975,-116.553976)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at S Euclid Ave Outflow. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom North Shoreline to fixed anchor. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is medium. Private Property.No boat launch facilities. Sandpoint City Beach boat launch is 1.1 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	

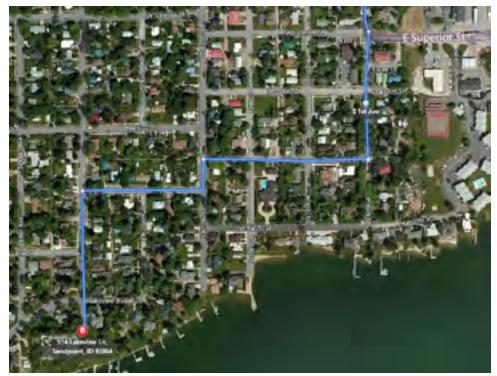


Suggested Equipment		
Quantity	Description	
50 ft.	Curtain Boom Tow Bridles	
As Appropriate		
65 ft.	Polypropylene Line	
3	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? N		

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight System)



Nearest Cache: Sandpoint (0.7 miles) Second Cache: Bonners (33.9 miles)



Nearest Address: 601 Euclid Ave Sandpoint ID 83864

## Site Access

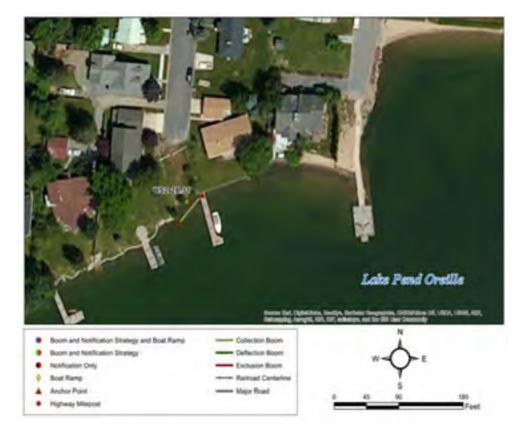
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn right onto Pine St 220 ft
- 3. Turn let onto Euclid Ave 0.4 mi





## S 4th Ave Culvert

Site Lat Long:	48.266921 -116.551305 (http://www.google.com/maps/place/48.266921,-116.551305)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at S 4th Ave Outflow. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom North Shoreline to fixed anchor. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is medium. No boat launch facilities. Sandpoint City Beach boat launch is 1.0 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	

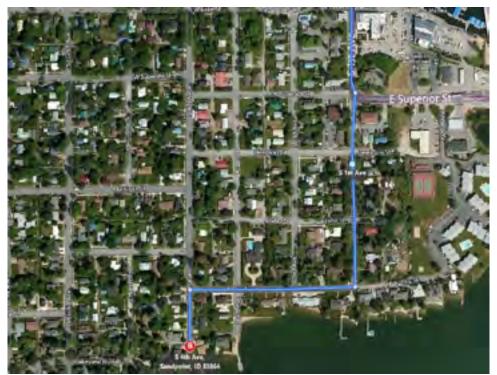


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
65 ft.	Polypropylene Line
3	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Swift water)



Nearest Cache: Sandpoint (0.8 miles) Second Cache: Bonners (34.0 miles)



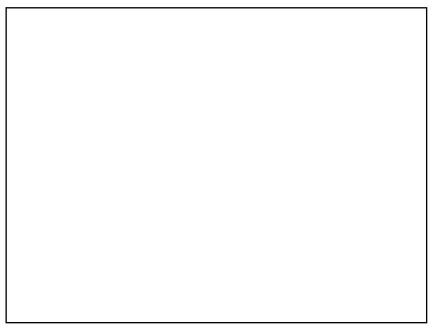
Nearest Address: 527 S 4th Ave Sandpoint ID 83864

## Site Access

- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn left onto Pine St 495 ft
- 3. Turn right onto S 4th Ave 0.4 mi



Image of concrete submerged culvert.



## S 3rd Ave Culvert

Site Lat Long:	48.267283 -116.550304 (http://www.google.com/maps/place/48.267283,-116.550304)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at S 3rd Ave Outflow. Secure upstream end of boom North Shoreline to fixed anchor. Secure downstream end of boom North Shoreline to steel post. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. No boat launch facilities. Sandpoint City Beach boat launch is 0.9 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	

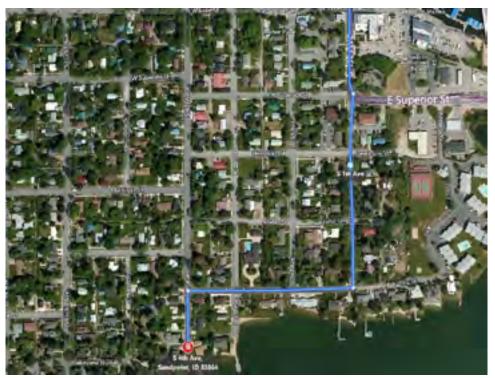


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
65 ft.	Polypropylene Line
3	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Sygiftygater)



Nearest Cache: Sandpoint (0.9 miles) Second Cache: Bonners (34.0 miles)



Nearest Address: 600-616 South 3rd Ave Sandpoint ID 83864

## Site Access

- Sandpoint, Idaho
- 1. Head south on N Fifth Ave toward Cedar St 0.2 mi
- 2. Turn left onto Pine St 495 ft
- 3. Turn right onto S 4th Ave 0.4 mi
- 4. Turn left onto Pacfic St 236 ft
- 5. Turn right at the 1st cross street onto S 3rd Ave 197 ft



View looking south from north of culvert.

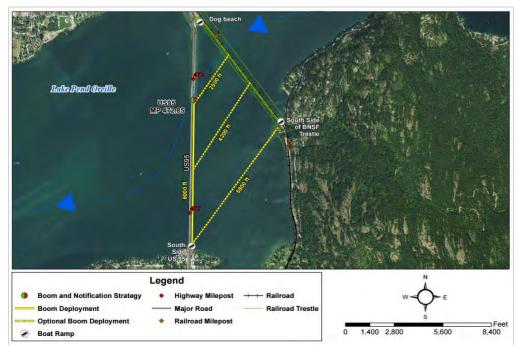


View of area to be boomed between a fixed dock anchor and tree.

# Long Bridge

## (BNSF Spokane 4.28) **US95 472.85**

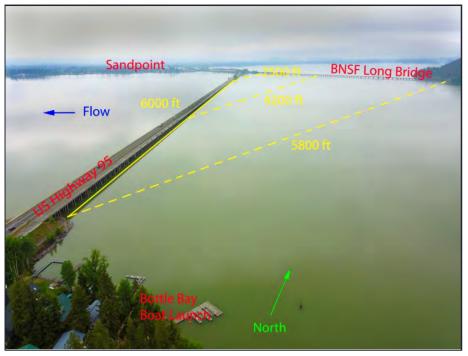
Site Lat Long:	48.256623 -116.53849 (http://www.google.com/maps/place/48.256623,-116.53849)	
Strategy Objective:	Notification and collection and recovery.	
Implementation:	Lake Pend Oreille flow direction is from the northeast to the southwest. Containment boom will go out in 3 2000' segments along the east side of the US 95 Bridge from 3 boom reels. Secure upstream end to north shoreline and downstream end to south shoreline.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is at Dog Beach, US 95 Pedestrian Bridge or Sandpoint City Beach. Use US 95 bridge as staging and recovery area. Equipment and vehicle parking area adjacent to lake at the collection point. No boat launch facilities. Bottle Bay Bridge boat launch is	
Field Notes:	<ul> <li>Last collection point on Lake Pend Oreille before Pend Oreille River. Wind conditions may make this site unsuitable for collection.</li> <li>4WD Access: NO Seasonal Access Only: NO Locked Gate: NO</li> </ul>	
Resources Targeted:	Public water supply, Recreation, Reservoir, Threatened and Endangered Species	
Watercourse:	Lake Pend Oreille: substrate is gravel	



Suggested Equipment		
Quantity	Description	
11,800 ft.	Curtain Boom Tow Bridles	
As Appropriate	Portable Skimmer; Vacuum Truck; Absorbent Boom	
3,000 ft.	Polypropylene Line	
16	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
15	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/	raft needed for strategy implementation?	
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
12 / 2	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
2 / 2	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	

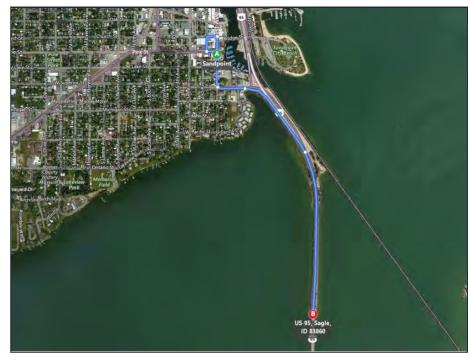
Visited on 2016-07-16

## Long Bridge



Nearest Cache: Sandpoint (2.0 miles) Second Cache: Bonners (34.3 miles)

**Site-Specific Points of Contact** 



Nearest Address: 175 Glen Eden Rd Sagle ID 83860

## Site Access

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 361 ft

- 3. Take the ramp onto US-95N .7 mi
- 472001 U.S. 95, Sandpoint, Idaho



Looking South



Looking South from bike path

# (BNSF Spokane 3.4) US95 473.84

## Sandpoint Public Works Water Intake

Site Lat Long:	48.274217 -116.534885 (http://www.google.com/maps/place/48.274217,-116.534885)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Sandpoint Public Works surface water intake.	
Implementation:	Use boom to exclude Public Water Supply. Notify City of Sandpoint Water Treament Plant.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Only accessible by boat, but very close to Sandpoint City Park boat launch. No boat launch facilities. Sandpoint City Beach boat launch is 0.5 miles away.	
Field Notes:	<ul> <li>Contact David Pafundi, with City of Sandpoint Water Treatment Plant, at 208-263-3440 to shut off intake.</li> <li>Boat Ramp may be unusable in winter</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Municipal Water Intake	
Watercourse:	Lake Pend Oreille; substrate is mud; approx. depth is greater than 20 feet; slow moving; shoals	



Suggested Equipment	
Quantity	Description
800 ft.	Curtain Boom Tow Bridles
As Appropriate	
1000 ft.	Polypropylene Line
0	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
6	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Sysift yeater)



Nearest Cache: Sandpoint (1.3 miles) Second Cache: Bonners (34.1 miles)

David Pafundi 208 263 3440 Ryan Luttman 208 263 3407



Nearest Address: 54 Bridge St Sandpoint ID 83864

## Site Access - Use Sandpoint City Beach boat launch, directions below

- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave 246 ft
- 4. Turn right onto Bridge St 0.2 mi
- 5. Turn right



Photo taken from estimated point of where water intake should be, looking back at the city beach.



## Sandpoint City Beach and Marina

Site Lat Long:	48.273909 -116.541436 (http://www.google.com/maps/place/48.273909,-116.541436)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at S 4th Ave Outflow. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom North Shoreline to fixed anchor. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is large. Large parking area at city beach with boat ramp. Concrete boat launch. Sandpoint City Beach boat launch is 0.3 miles away.
Field Notes:	<ul> <li>Boat Ramp may be unusable in winter</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>
Resources Targeted:	Sandpoint City Beach and Marina, recreation
Watercourse:	Lake Pend Oreille; substrate is sand; approx. depth is over 20 feet



Suggested Equipment	
Quantity	Description
2000 ft.	Curtain Boom Tow Bridles
As Appropriate	
2500 ft.	Polypropylene Line
0	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
4	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
3 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Sysift yeater)



Nearest Cache: Sandpoint (1.1 miles) Second Cache: Bonners (33.9 miles)



Nearest Address: 54 Bridge St Sandpoint ID 83864

## Site Access

- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave 246 ft
- 4. Turn right onto Bridge St 0.2 mi
- 5. Turn right



City beach



Large staging area

### Mouth of Sand Creek

Site Lat Long:	48.272248 -116.542879 (http://www.google.com/maps/place/48.272248,-116.542879)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Mouth of Sand Creek. Secure upstream end of boom River Right to rock. Secure downstream end of boom River Left to fixed anchor. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	OOn site staging is large. Large parking area for vehicles and equipment at Sandpoint City Beach parking area. Boat ramp on site. Concrete boat launch. Sandpoint City Beach boat launch is 0.1 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Lake Pend Orielle, Sandpoint City Beach, Marina, fish habitat, recreation
Watercourse:	Sand Creek: gradient is low; substrate is mud; approx. width is 360 ft.; approx. depth is 5 to 10 feet; channelized; slow moving



Suggested Equipment	
Quantity	Description
360 ft.	Curtain Boom Tow Bridles
As Appropriate	
450 ft.	Polypropylene Line
0	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
0	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Sylftygater)



Nearest Cache: Sandpoint (1.2 miles) Second Cache: Bonners (34.0 miles)



Nearest Address: 120 E Lake St Sandpoint ID 83864

## Site Access

- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave 246 ft
- 4. Turn right onto Bridge St 0.2 mi
- 5. Turn right



view of Sandpoint City Beach boat launch from the Lake, facing east.



Parking area.

Boat Ramp
 Anchor Point

Highway Milepost

Site Lat Long:	48.274021 -116.545732 (http://www.google.com/maps/place/48.274021,-116.545732)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Lower Sand Creek. Secure upstream end of boom River Right to fixed anchor. Secure downstream end of boom River Left to steel post. Secure upstream end of second boom River Right to fixed anchor. Secure downstream end of second boom River Left to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. Parking available for vehicles and equipment on bike path along River left. Many public parking areas also in the area, but with limited space. No boat launch facilities. Sandpoint City Beach boat launch is 0.3 miles away.	
Field Notes:	<ul> <li>Contact City of Sandpoint for access to bike path. First boom location is upstream of city beach access road bridge. Second boom location is downstream of the bridge. Both locations need equal amounts of boom (350 ft).</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Sand Creek, Sandpoint City Beach and Marina, fish habitat, recreation area	
Watercourse:	Sand Creek: gradient is low; substrate is mud; approx. width is 290 ft.; approx. depth is 5 to 10 feet; channelized; slow moving	



Railtoad Centerline

- Major Road

Suggested Equipment	
Quantity	Description
700 ft.	Curtain Boom Tow Bridles
As Appropriate	
500 ft.	Polypropylene Line
5	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Sydiff yeater)



Nearest Cache: Sandpoint (0.9 miles) Second Cache: Bonners (33.7 miles)



Nearest Address: 106 Bridge St Sandpoint ID 83864

## Site Access

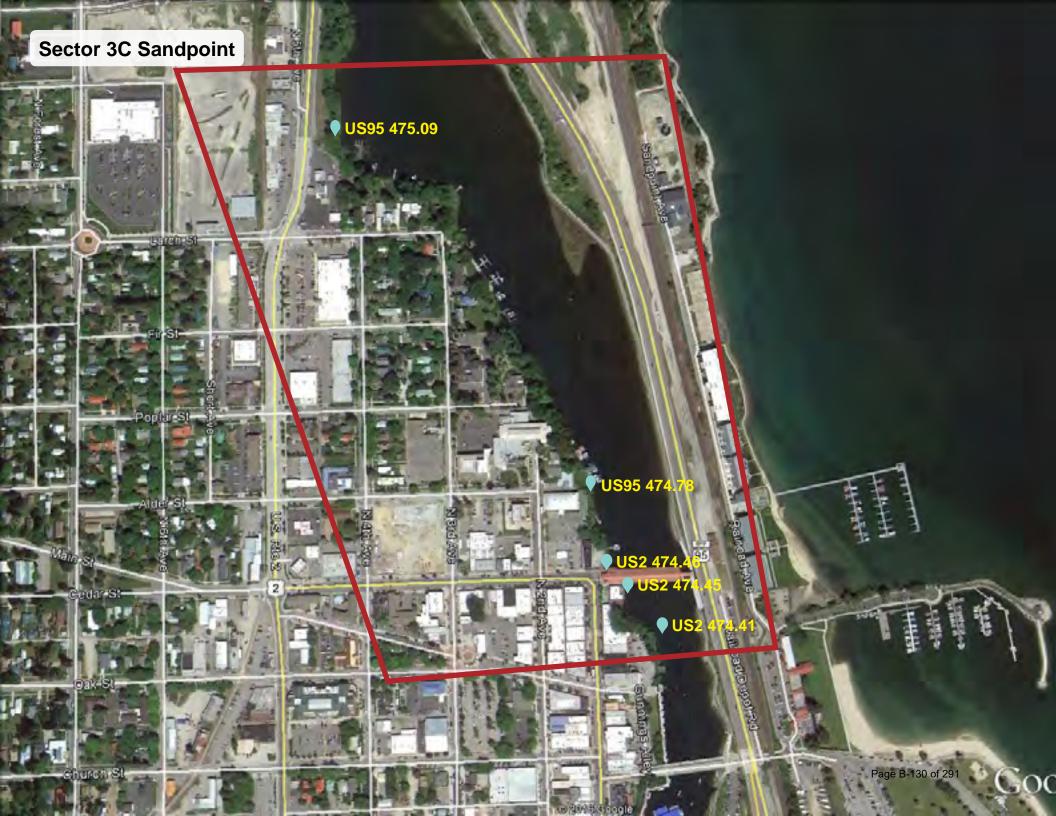
- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave 246 ft
- 4. Turn right onto Bridge St 0.1 mi
- 5. Take immediate right after crossing over the bridge



Looking from river left collection point towards upstream anchor.



View of the bike path. Note the locked pillar in the center of path.



# Sector 3D Sandpoint

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US95 475.3 🞈

**US95 475.34** 

**US95 475.32** 

♥ US95 475.21 ♥ US95 475.22

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95

Sandpoint Bywar Maa



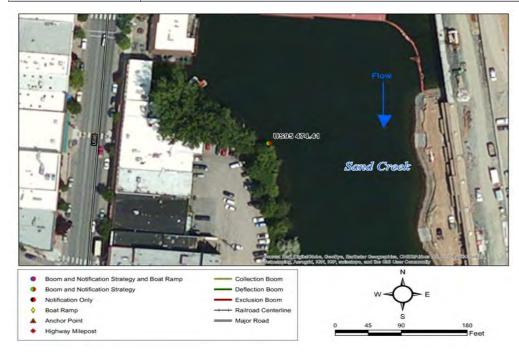
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2

## E. Cedar St Culvert # 1

Site Lat Long:	48.275492 -116.546815 (http://www.google.com/maps/place/48.275492,-116.546815)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at E. Cedar St Culvert # 1. Secure upstream end of boom West Shoreline to tree. Secure downstream end of boom West Shoreline to tree. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. No boat launch facilities. Sandpoint City Beach boat launch is 0.4 miles away.
Field Notes:	• 4WD Access: NO Seasonal Access Only: NO Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	Lake Pend Oreille:



Suggested Equipment		
Quantity		Description
50 ft.		Curtain Boom Tow Bridles
As Appropriate		Absorbent Boom
65 ft.		Polypropylene Line
None		Steel Post Anchors
As Appropriate Post pounder, shovels, knife, wood saw		Post pounder, shovels, knife, wood saw
None		In Water Anchors
As Appropriate		PFD work vests/rubber boots
As Appropriate		Throw bags, first aid kit
Jet boat/raft needed for strategy implementation?		eded for strategy implementation? Y
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / None	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	

Visited on 2016-08-01



Nearest Cache: Sandpoint (1.1 miles) Second Cache: Bonners (33.6 miles)



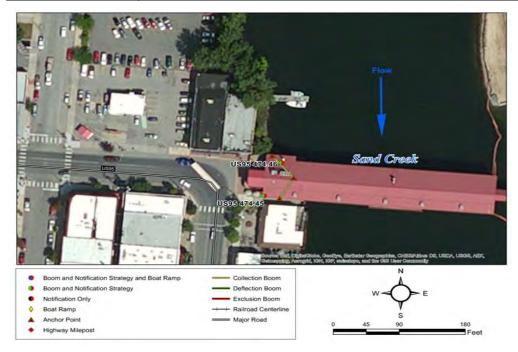
Nearest Address: 334 N. Fifth Ave Sandpoint ID 83864

## Site Access

- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Cedar St 0.3 mi
- 3. Turn right onto N First Ave 322 ft

## E. Cedar St Culvert # 2

Site Lat Long:	<u>48.27606</u> -116.547529 (http://www.google.com/maps/place/48.27606,-116.547529)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at E. Cedar St Culvert # 2. Secure upstream end of boom West Shoreline to fixed anchor. Secure downstream end of boom West Shoreline to fixed anchor. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. No boat launch facilities. Sandpoint City Beach boat launch is 0.7 miles away.
Field Notes:	• 4WD Access: NO Seasonal Access Only: NO Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	Lake Pend Oreille:



Suggested Equipment		
Quantity	Description	
50 ft.	Curtain Boom Tow Bridles	
As Appropriate	Absorbent Boom	
65 ft.	Polypropylene Line	
None	Steel Post Anchors	
As Appropriate Post pounder, shovels, knife, wood saw		
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / None	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	

Visited on 2016-08-01



Nearest Cache: Sandpoint (0.9 miles) Second Cache: Bonners (33.5 miles)



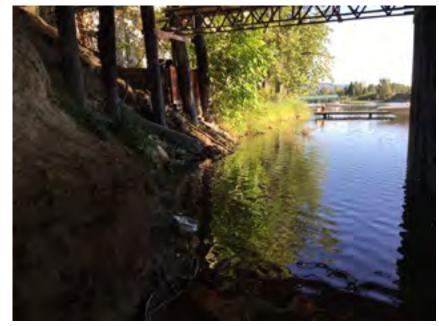
rest Address: 334 N 1St Ave Sandpoint ID 83864

## Site Access

- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave
- 4. Destination will be on the right just before Ceder St



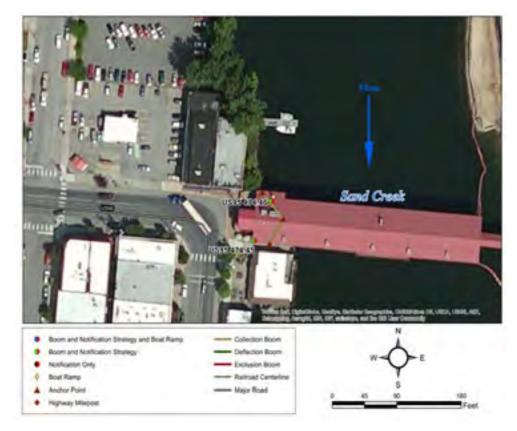
View of the southern culvert under bridge/restaurant.



View from south of both culverts facing north.

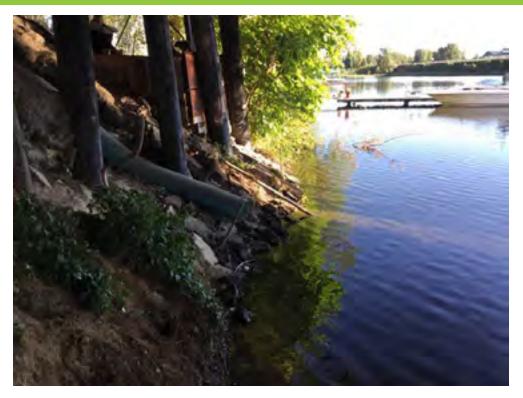
#### E. Cedar St Culvert # 3

Site Lat Long:	48.276208 -116.547452 (http://www.google.com/maps/place/48.276208,-116.547452)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Deploy collection boom and initiate contaminant recovery at E. Cedar St Culvert # 3. Secure upstream end of boom West Shoreline to bridge piling. Secure downstream end of boom West Shoreline to bridge piling. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. No boat launch facilities. Sandpoint City Beach boat launch is 0.7 miles away.	
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Lake Pend Oreille:	



Suggested Equipment		
Quantity	Description	
None	Curtain Boom Tow Bridles	
As Appropriate		
	Polypropylene Line	
None	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft need	led for strategy implementation? Y	

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fache (Syrift yeater)	



Nearest Cache: Sandpoint (0.9 miles) Second Cache: Bonners (33.5 miles)



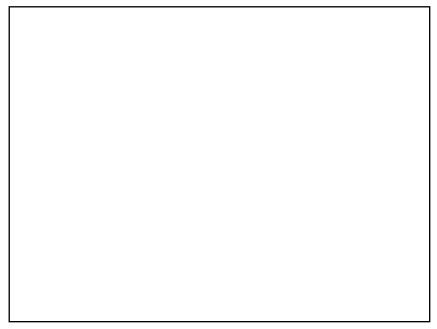
Nearest Address: 334 N 1St Ave Sandpoint ID 83864

## Site Access

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave
- 4. Destinat

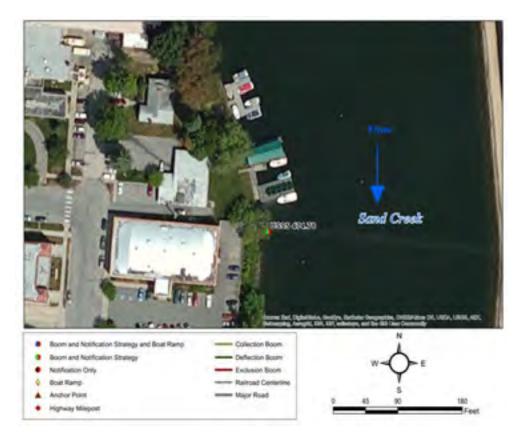


Image of concrete submerged culvert.



## Alder St Culvert

Site Lat Long:	48.277149 -116.547759 (http://www.google.com/maps/place/48.277149,-116.547759)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Deploy collection boom and initiate contaminant recovery at Alder St Culvert. Secure upstream end of boom to West Shoreline to steel post. Secure downstream end of boom to West Shoreline to steel post. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. No boat launch facilities. Sandpoint City Beach boat launch is 0.8 miles away.	
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Lake Pend Oreille:	



Suggested Equipment			
Quantity	Description		
50 ft.	Curtain Boom Tow Bridles		
As Appropriate			
65 ft.	Polypropylene Line		
6	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
None	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	Throw bags, first aid kit		
Jet boat/raft needed for strategy implementation? Y			

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Strift verter)	



Nearest Cache: Sandpoint (1.0 miles) Second Cache: Bonners (33.4 miles)



Nearest Address: 502 North 2nd Avenue Sandpoint ID 83864

#### Site Access

- Sandpoint, Idaho
- 1. Head east on Pine St toward S 1st Ave- 141 ft
- 2. Pine St turns left and becomes N First Ave- 0.2 mi
- 3. N First Ave turns left and becomes Cedar St- 220 ft
- 4. Turn right onto N 2nd Ave- 253 ft
- 5. Turn right- 184 ft
- 6. Turn left to reach destination



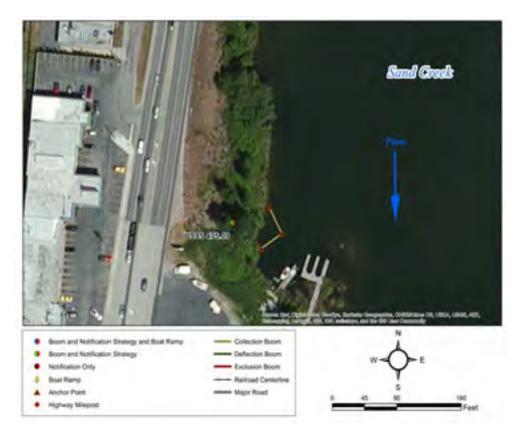
View from south facing north.



View from north of culverts facing south.

#### N. 5th Ave Surface Water Outflow #1

Site Lat Long:	48.281625 -116.552419 (http://www.google.com/maps/place/48.281625-116.552419)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Sand Creek flow direction is to the southeast. Deploy collection boom and initiate contaminant recovery at Culvert just North of Gas n Go, North of Larch St. on Hwy 2/200. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is poor.		
Site Safety Note:	Complete Job Safety Analysis. Steep embankment with loose screen.		
Staging Area:	On site staging is large. Large parking lot of Gas n Go. No boat launch facilities. Sandpoint City Beach boat launch is 1.3 miles away.		
Field Notes:	In 2015, this area was investigated by ID DEQ for petroleum products seeping into Sandcreek from an adjacent gasoline station.         • 4WD Access: NO       • Seasonal Access Only: NO       • Locked Gate: NO		
Resources Targeted:	Sand Creek and wetlands		
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 840 ft.; approx. depth is 5 to 10 feet; slow moving; channelized		



Quantity	Description
None	Curtain Boom Tow Bridles
As Appropriate	
100 ft.	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
1	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit

Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Syster)		



Nearest Cache: Sandpoint (1.1 miles) Second Cache: Bonners (32.8 miles)



Nearest Address: 830 5th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.3 mi 830 North Fifth Avenue, Sandpoint, Idaho



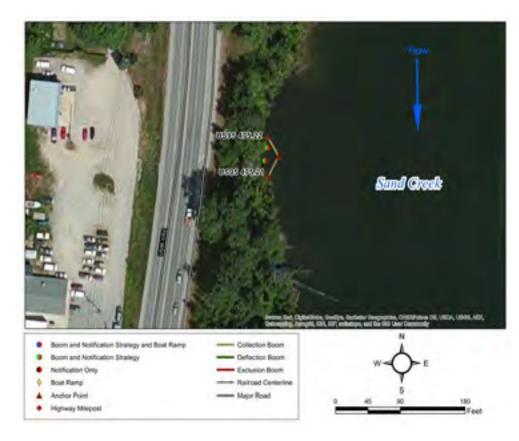
Looking Southwest towards outflow area of culvert, closer view.



Looking Southwest towards outflow area of culvert.

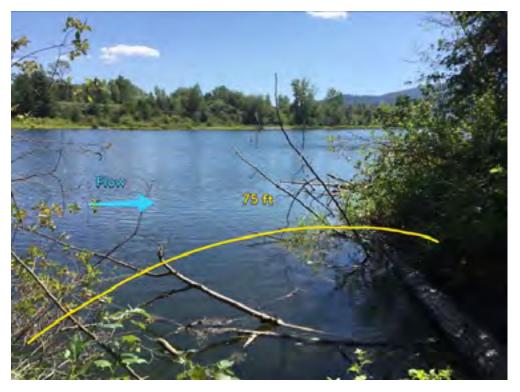
#### N. 5th Ave Surface Water Outflow #2

Site Lat Long:	48.283483 -116.552268 (http://www.google.com/maps/place/48.283483,-116.552268)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Sandpoint Visitor Center. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Visitor Center Parking Area. No boat launch facilities. Sandpoint City Beach boat launch is 1.4 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO Work this strategy in conjunction with the adjacent US95 475.22	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 450 ft.; approx. depth is 5 to 10 feet	

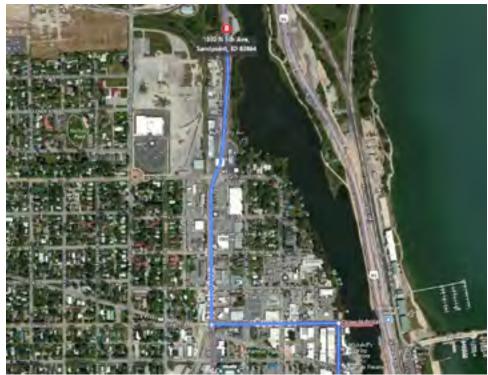


Description
Curtain Boom Tow Bridles
Polypropylene Line
Steel Post Anchors
Post pounder, shovels, knife, wood saw
In Water Anchors
PFD work vests/rubber boots
Throw bags, first aid kit
-

Suggested Personnel			
Quantity	antity Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Syster)		



Nearest Cache: Sandpoint (1.2 miles) Second Cache: Bonners (32.7 miles)



Nearest Address: 915 5Th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.4 mi 2. Turn left to stay on N Fifth Ave - 16 ft 1005 North Fifth Avenue, Sandpoint, Idaho



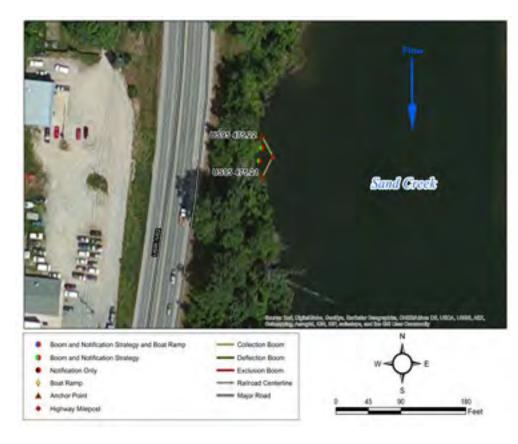
Metal pipe culvert 10+ ft from shore up embankment. Pipe diameter 8 inches.



Concrete culvert on shoreline of river, but still difficult to access from water. Closest to Visitor Center.

#### N. 5th Ave Surface Water Outflow #3

Site Lat Long:	48.28353 -116.552259 (http://www.google.com/maps/place/48.28353,-116.552259)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Surface Water Outflow. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Steep embankment next to highway. Staging area minimum to none. Gravel boat launch. Sandpoint City Beach boat launch is 1.4 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO Work this strategy in conjunction with the adjacent US95 475.21	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 450 ft.; approx. depth is 5 to 10 feet; slow moving	



Quantity	Description	
100 ft.	Curtain Boom Tow Bridles	
As Appropriate		
125 ft.Polypropylene Line		
None	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel				
Quantity	Quantity Title (Function)			
1	Booming Team Leader			
1	Safety Representative			
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)			
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Syster)			



Nearest Cache: Sandpoint (1.2 miles) Second Cache: Bonners (32.7 miles)



Nearest Address: 915 5Th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.4 mi 2. Turn left to stay on N Fifth Ave - 16 ft 1005 North Fifth Avenue, Sandpoint, Idaho

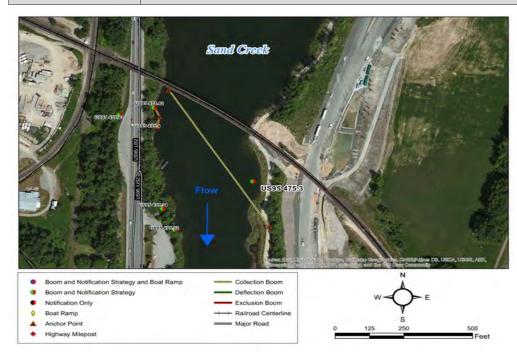


Smaller metal pipe culvert, closer to parking lot.



Picture oriented viewing east/south east.

Site Lat Long:	48.285618 -116.551169 (http://www.google.com/maps/place/48.285618,-116.551169)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Sand Creek Trestle. Secure upstream end of boom River Left to steel post. Vacuum truck access is good.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	On site staging is medium. Parking for vehicles and equipment along walking path on River left below the trestle. Additional parking on River right at the Sandpoint Visitors Center. No boat launch facilities. Sandpoint City Beach boat launch is 1.5 miles away.		
Field Notes:	<ul> <li>Use Sandpoint City Beach boat ramp for access or Sand Creek Bike trail at intersection with US95</li> <li>4WD Access: NO Seasonal Access Only: NO Locked Gate: YES</li> </ul>		
Resources Targeted:	Sand Creek, Sandpoint City Beach and Marina, fish habitat, recreation		
Watercourse:	Sand Creek: gradient is low; substrate is mud; approx. width is 250 ft.; approx. depth is 5 to 10 feet; channelized; slow moving		

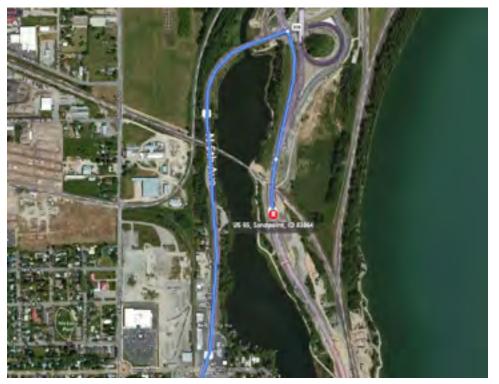


Suggested Equipment		
Quantity		Description
750 ft.		Curtain Boom Tow Bridles
As Appropriate		Vacuum Truck; Portable Skimmer
1000 ft.		Polypropylene Line
5		Steel Post Anchors
As Appropriate		Post pounder, shovels, knife, wood saw
None		In Water Anchors
As Appropriate		PFD work vests/rubber boots
As Appropriate		Throw bags, first aid kit
Jet boat/raft n		eeded for strategy implementation? Y
Suggested Personnel		onnel
Quantity	Title (Function)	
1	Boo	ming Team Leader
1	Safe	ty Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-	Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)

Visited on 2016-06-30



Nearest Cache: Sandpoint (1.3 miles) Second Cache: Bonners (32.6 miles)



Nearest Address: 1125 5th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St
- 2. Continue to follow US-2 E- 1.0 mi
- 3. Turn right onto the US-95 S ramp- 0.3 mi
- 4. Merge onto US-95/Sandpoint



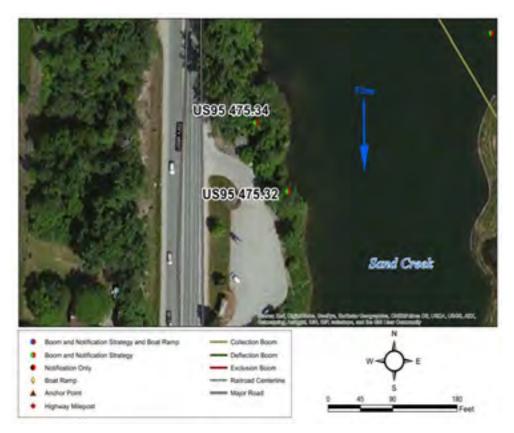
Looking north from River right towards the trestle.



Looking at River left and city bike path.

#### Visitor's Center Culvert #1

Site Lat Long:	48.284992 -116.552249 (http://www.google.com/maps/place/48.284992,-116.552249)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Visitor Center Culvert. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is good.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	No staging area. Visitor's Center Parking Area. No boat launch facilities. Sandpoint City Beach boat launch is 1.5 miles away.		
Field Notes:	<ul> <li>Below informational signs at Visitor's Center.</li> <li>Marshy shoreline; densely vegetated.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>		
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake		
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 270 ft.; approx. depth is 5 to 10 feet; slow moving		

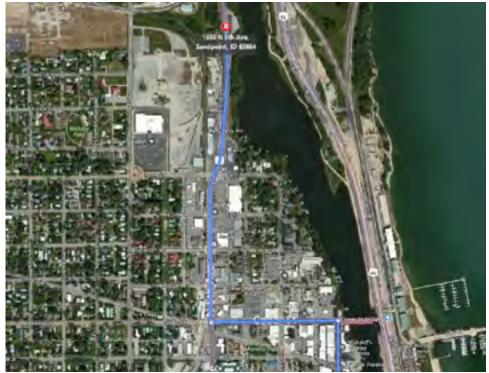


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
75 ft.	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fache (Sysift yeater)



Nearest Cache: Sandpoint (1.3 miles) Second Cache: Bonners (32.6 miles)



Nearest Address: 1125 5th Ave Sandpoint ID 83864

## Site Access

Sandpoint, Idaho

- 1. Head orth on N fifth Ave toward Alder St 0.4 mi
- 2. Turn left to stay on N Fifth Ave 358 ft
- 1125 North Fifth Avenue, Sanpoint, Idaho



14 inch diameter metal pipe culvert, roughly 10+ ft from shoreline.

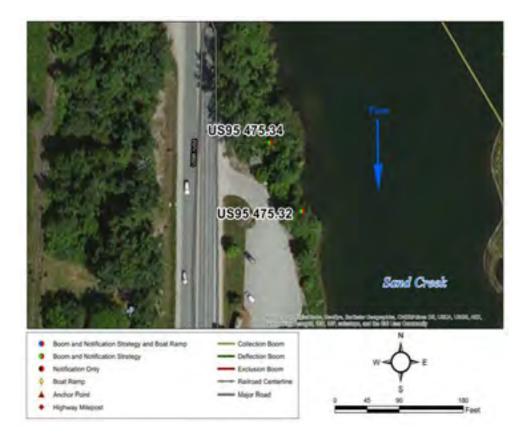


View from directly in front of culvert on shoreline overlooking potential boom containment site.

#### (BNSF Kootenai 1402.6) US95 475.34

#### Visitor's Center Culvert #2

Site Lat Long:	48.285224 -116.552465 (http://www.google.com/maps/place/48.285224,-116.552465)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Visitor Center Culvert 24 inch pipe and seep. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is medium. Visitor's Center Parking area, steep embankments and marshy shoreline. No boat launch facilities. Sandpoint City Beach boat launch is 1.5 miles away.
Field Notes:	<ul> <li>Seep located 20 guard rail posts until inline with wooden weirs and 15+ from shoreline.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 270 ft.; approx. depth is 5 to 10 feet; slow moving

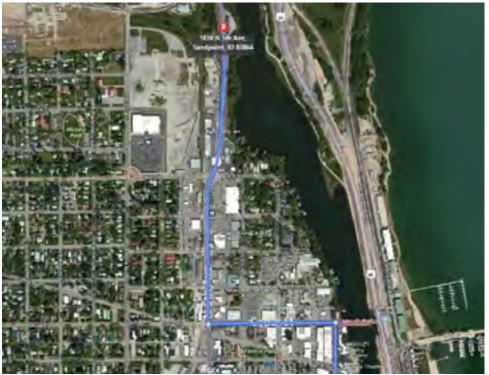


Suggested Equipment	
Quantity	Description
None	Curtain Boom Tow Bridles
As Appropriate	
	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
1 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fech (Sysift yeater)



Nearest Cache: Sandpoint (1.3 miles) Second Cache: Bonners (32.6 miles)



Nearest Address: 1125 5th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho

- 1. Head orth on N fifth Ave toward Alder St 0.4 mi
- 2. Turn left to stay on N Fifth Ave 358 ft
- 1125 North Fifth Avenue, Sandpoint, Idaho



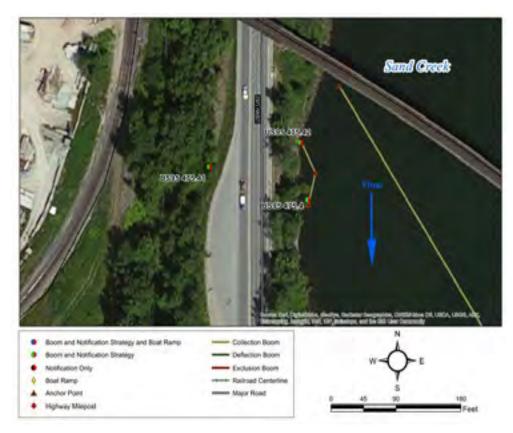
24 inch metal pipe culvert below gazebo, 15+ ft from shore.



Photo taken from embankment overlooking step. Montana rail link bridge in background for orientation.

#### Visitor's Center Culvert #3

Site Lat Long:	48.28618 -116.552678 (http://www.google.com/maps/place/48.28618,-116.552678)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Cluster South of Visitor's Center. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. Sandpoint City Beach boat launch is 1.6 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 275 ft.; approx. depth is 5 to 10 feet; slow moving

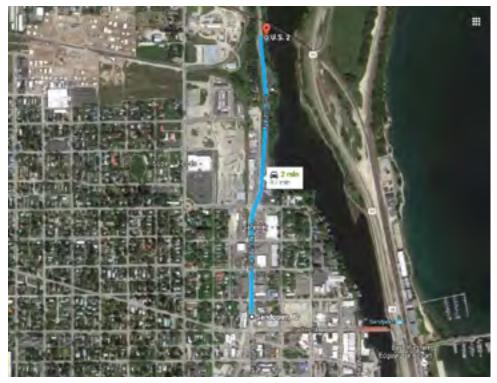


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
75 ft.	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Stylet ugater)



Nearest Cache: Sandpoint (1.4 miles) Second Cache: Bonners (32.5 miles)



Nearest Address: 1125 5th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.7 mi



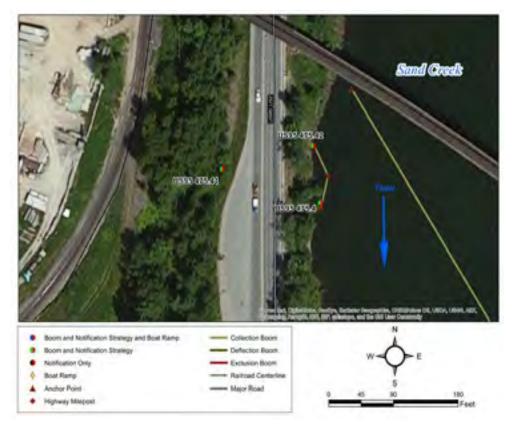
14 inch culvert South of railroad trestle.



24 culvert South of railroad trestle, just below and downstream of 14 inch culvert.

#### Visitor's Center Culvert #4

Site Lat Long:	48.286264 -116.553254 (http://www.google.com/maps/place/48.286264,-116.553254)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Deploy collection boom and initiate contaminant recovery at Visitor's Center Culvert # 4. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. No boat launch facilities. Sandpoint City Beach boat launch is 1.6 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	

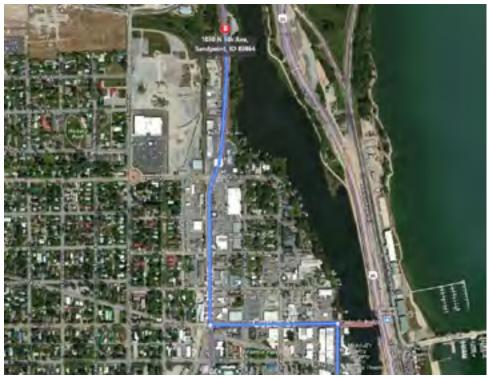


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
75 ft.	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Swift water)



Nearest Cache: Sandpoint (1.4 miles) Second Cache: Bonners (32.5 miles)



Nearest Address: 1125 5th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.5 mi



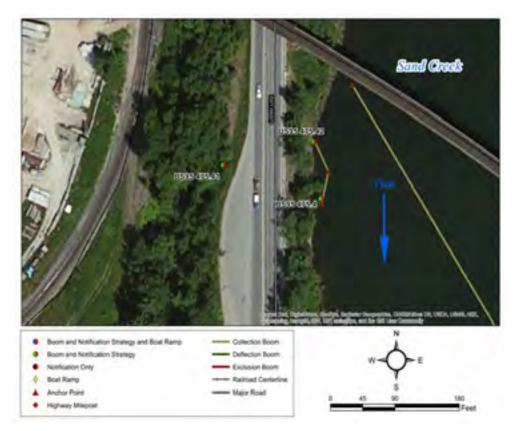
From turn off facing north with sign for orientation, culvert is central in frame.



Facing east directly in front of culvert.

#### Baldy Mountain Rd Surface Water Outflow #2

Site Lat Long:	48.286379 -116.552747 (http://www.google.com/maps/place/48.286379,-116.552747)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Surface Water Outflow. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. Turn off across highway could be used as a good small to medium staging area. No boat launch facilities. Sandpoint City Beach boat launch is 1.6 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. depth is 5 to 10 feet; slow moving



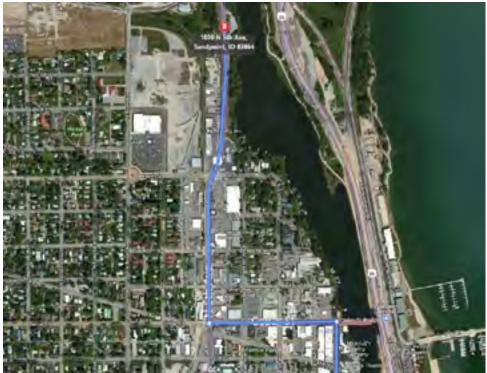
Suggested Equipment			
Quantity	Description		
50 ft.	Curtain Boom Tow Bridles		
As Appropriate			
75 ft.	Polypropylene Line		
None	Steel Post Anchors		
As Appropriate	Post pounder, shovels, knife, wood saw		
None	In Water Anchors		
As Appropriate	PFD work vests/rubber boots		
As Appropriate	Throw bags, first aid kit		
Jet boat/raft needed for strategy implementation? Y			

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Swift water)	



Nearest Cache: Sandpoint (1.4 miles) Second Cache: Bonners (32.5 miles)

#### **Site-Specific Points of Contact**

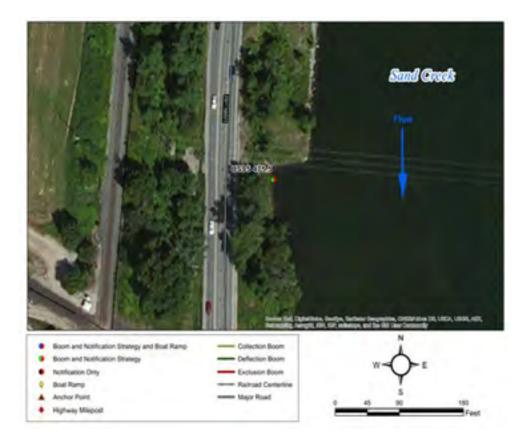


Nearest Address: 1125 5th Ave Sandpoint ID 83864

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.5 mi 1307 North Fifth Avenue, Sandpoint, Idaho

Site Lat Long:	48.287579 -116.552849 (http://www.google.com/maps/place/48.287579,-116.552849)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Surface Water Outflow. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Right to tree. Vacuum truck access is poor.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	No staging area. Shoulder of highway on inside turn. No boat launch facilities. Sandpoint City boat launch is 1.7 miles away.		
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO		
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake		
Watercourse:	Sand Creek: gradient is low; substrate is gravel; approx. width is 615 ft.; approx. depth is 5 to 10 feet; slow moving		

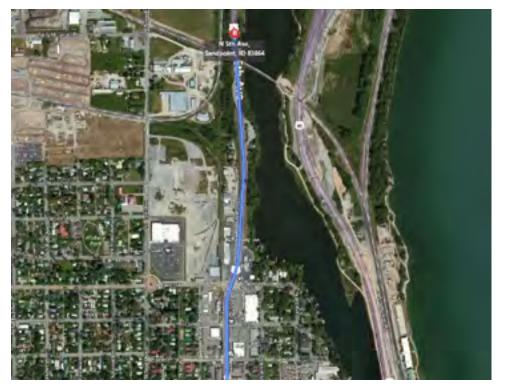


Suggested Equipment				
Quantity	Description			
50 ft.	Curtain Boom Tow Bridles			
As Appropriate				
75 ft.	Polypropylene Line			
None	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
None	In Water Anchors			
As Appropriate	PFD work vests/rubber boots			
As Appropriate	Throw bags, first aid kit			
Jet boat/raft needed for strategy implementation? Y				

Suggested Personnel			
Quantity	Quantity Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Swift water)		



Nearest Cache: Sandpoint (1.5 miles) Second Cache: Bonners (32.4 miles)



Nearest Address: 1500 N. Fifth Ave Ponderay ID 83852

#### Site Access

Sandpoint, Idaho 1. Head north on N Fifth Ave toward Alder St - 0.5 mi



Picture taken from culvert facing upstream, rail link bridge in background for orientation.



Picture of culvert facing downriver.

# N Boyer Ave and Baldy Mountain Rd.

Site Lat Long:	48.28779 -116.557571 (http://www.google.com/maps/place/48.28779,-116.557571)		
Strategy Objective:	Notification and contaminant collection and recovery.		
Implementation:	Deploy collection boom and initiate contaminant recovey at West Boyer Rd crossing, corner of N Boyer Ave and Baldy Mt Rd. Vacuum truck access is good.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	On site staging is medium. Medium sized parking area adjacent to West Boyer railroad crossing. No boat launch facilities. Sandpoint City Beach boat launch is 1.9 miles away.		
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO		
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake		
Watercourse:			

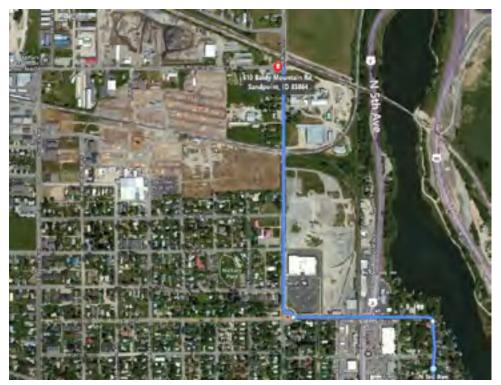


Suggested Equipment				
Quantity	Description			
None	Curtain Boom Tow Bridles			
As Appropriate				
	Polypropylene Line			
12	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
None	In Water Anchors			
As Appropriate	PFD work vests/rubber boots			
As Appropriate	Throw bags, first aid kit			
Jet boat/raft needed for strategy implementation? N				

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (Sygift yeater)	



Nearest Cache: Sandpoint (1.4 miles) Second Cache: Bonners (32.4 miles)



Nearest Address: 600-902 Baldy Mountain RD Sandpoint ID 83864

#### Site Access

- Sandpoint, Idaho
- 1.Head north on N Fifth Ave toward Alder St- 0.3 mi
- 2. Turn left onto Larch St- 0.2 mi
- 3. At the traffic circle, take the 1st exit onto N Boyer Ave- 0.5 mi
- 4. Turn left onto Baldy Mountain Rd, destination will be on the right- 128 ft

Cardboard Sector 4

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# Northwest Area Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
Sector 4A Northside (Lakeshore)	US95 478.53	BNSF Kootenai 1399.09	Bronx Road	No	US95 473.87
	US95 479.99	BNSF Kootenai 1399.67	Sand Creek Water Treatment Plan	No	No applicable
(La	SR200 33.15	MRL4 114.92	Boyer Clough	No	None
orthside	SR200 34.53	MRL4113.5	Oden Water Association Water Intake	Yes	SR200 42.59
A No	SR200 34.98	MRL4113.0	Culver Slough	Unlikely	US95 473.87
ctor 4/	SR200 36.39	MRL4 109.77	Pend Oreille State Wildlife Management Area	Unlikely	Uncertain
Ō	SR200 38.69	MRL4 109.93	Pack River Bridge	No	SR200 42.59
	SR200 41.28	MRL4 107.49	Sunnyside Water Intake	Yes	SR200 41.38
Sector 4B Northside (Selle Valley)	US95 480.44	BNSF Kootenai 1397.09	West Selle Road	No	No boat access
	US95 484.17	BNSF Kootenai 1393.33	East Colburn	No	US95 473.87
	US95 487.77	BNSF Kootenai 1391.75	Lower Pack River	No	No boat access
U)	SR200 37.78	MRL4111.05	Rapid Lightning Road Bridge	No	No boat access



US95 478.53

VS95 479.99

● SR200 33.15

SR200 34.53

SR200 36.39

200 34.98

SR200 41.28

SR200 38.6<mark>9</mark>

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# Selle Valley Area

**US95 484.17** 

US95 485.77

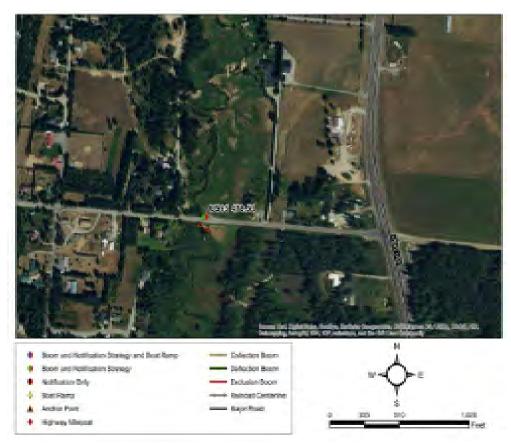
**US95 480.44** 

SR200 37.78 🔷

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# Bronx Rd.

Site Lat Long:	48.09251 -116.096934 (http://www.google.com/maps/place/48.328199,-116.552754)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Sand Creek flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Bronx Rd recovery location on Sand Creek. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis. Dense Vegetation River right and narrow county road.
Staging Area:	No staging area. Small to no staging area. Very narrow bridge. Sandpoint City Beach boat launch is 5.0 miles away. Sandpoint Ciboat launch Beach BL is 5.0 miles away.
Field Notes:	Private property     • 4WD Access: NO     • Seasonal Access Only: NO     • Locked Gate: NO
Resources Targeted:	Recreation, Reservoir, Threatened and Endangered Species.
Watercourse:	Sand Creek: gradient is low; substrate is sand; approx. width is 24 ft.; approx. depth is 1 to 5 feet; fast moving.

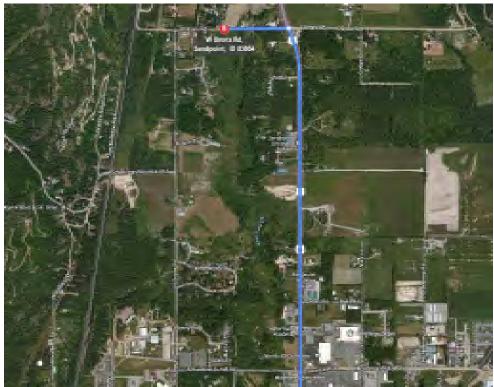


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	Portable Skimmer; Vacuum Truck; Absorbent Boom
75 ft.	Polypropylene Line
3	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 2	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
/	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)



Nearest Cache: Sandpoint (4.6 miles) Second Cache: Bonners (29.5 mile)

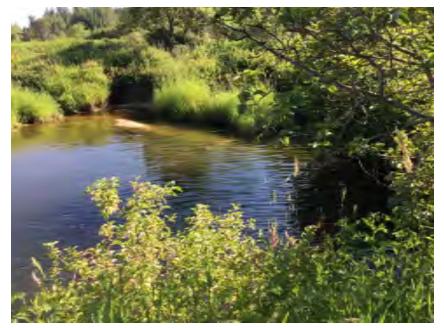


Nearest Address: 334 W Bronx Rd. Sandpoint ID 83864

## Site Access

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 361 ft
- 3. Take the ramp onto US-95 N 2.9 mi
- 4. Turn left onto W Bronx Rd 0.2 mi

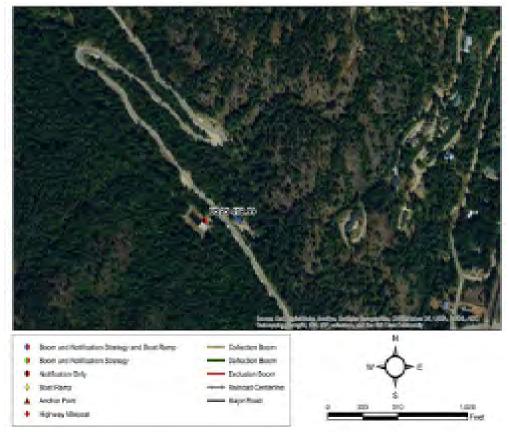


Bridge looking east.



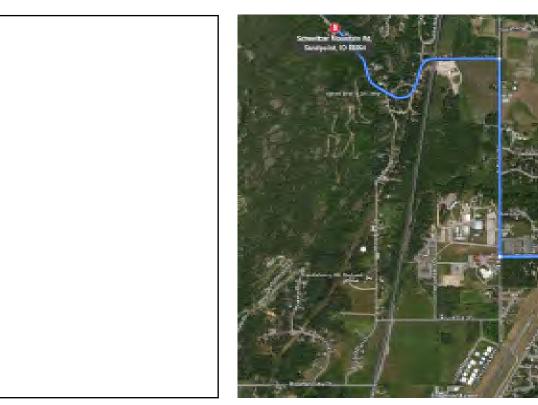
Sand creek looking north.

Site Lat Long:	<u>48.321576 -116.571611 (http://www.google.com/maps/place/48.321576,-116.571611)</u>
Strategy Objective:	Notification Only.
Implementation:	Notify Sand Creek Water Treatment Plant - contact David Pafundi at 208-263-3440 to shut off water intake on Sand Creek.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. Bottle Bay Bridge boat launch is 7.8 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake.
Watercourse:	



Suggested Equipment	
Quantity	Description
None	Curtain Boom Tow Bridles
As Appropriate	
	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
	Booming Team Leader
	Safety Supervisor
/ None	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
/	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)



Nearest Cache: Sandpoint (4.1 miles) Second Cache: Bonners (31.1 mile)

## **Site-Specific Points of Contact**

David Pafundi - (208) 263-3440 Ryan Luttman - (208) 263-3407

Nearest Address: 785 Rd Schweitzer Mtn. Sandpoint ID 83864

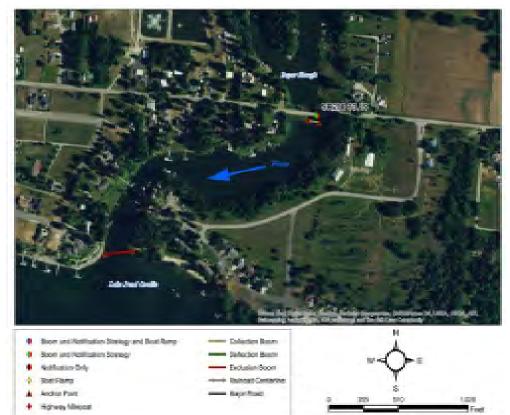
### Site Access

Sandpoint, Idaho

- 1. Head north on N Fifth Ave toward Alder St 0.3 mi
- 2. Turn left onto Larch St 0.2 mi
- 3. At the traffic circle, take the 1st exit onto N Boyer Ave 2.1 mi
- 4. Turn left onto Schweitzer Mountain Rd 1.2 mi
- 5. Turn right onto Boyer Rd. 0.8 mi
- 6. Turn left onto Schweitzer Mountain Rd 1.2 mi

# **Boyer Slough**

Site Lat Long:	48.309266 -11.491667 (http://www.google.com/maps/place/48.309266,-116.491667)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	River flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Boyer Slough. Secure upstream end of boom River Right to fixed anchor. Secure downstream end of boom River Left to fixed anchor. Vacuum truck access is good. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. Parking for vehicles and equipment on Whiskey Jack Rd near bridge over the slough. No boat ramp. Narrow shoulder. No boat launch facilities. Bottle Bay Bridge boat launch is 7.9 miles away.
Field Notes:	<ul> <li>Use wooden pillars in slough to anchor boom at bridge. Second boom at mouth of slough anchored with steel posts to create containment or exclusion.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>
Resources Targeted:	Boyer slough, fish habitat, wetlands habitat, and community recreational use
Watercourse:	Gradient is low; substrate is mud; approx. width is 40 ft.; approx. depth is 5 to 10 feet; braided channels; shoals; slow moving.

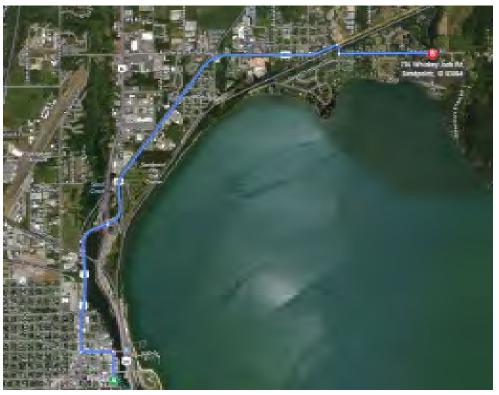


Suggested Equipment	
Quantity	Description
200 ft.	Curtain Boom Tow Bridles
As Appropriate	Portable Skimmer; Vacuum Truck
300 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 2	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
/	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)



Nearest Cache: Sandpoint (5.2 miles) Second Cache: Cabinet Gorge Dam (31.5 miles)



Nearest Address: 467-735 Whiskey Jack Rd Sandpoint ID 83864

## Site Access

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 2.7 mi
- 3. Turn right onto Kootenai Bay Rd 387 ft
- 4. Turn left onto Whiskey Jack Rd 0.8 mi



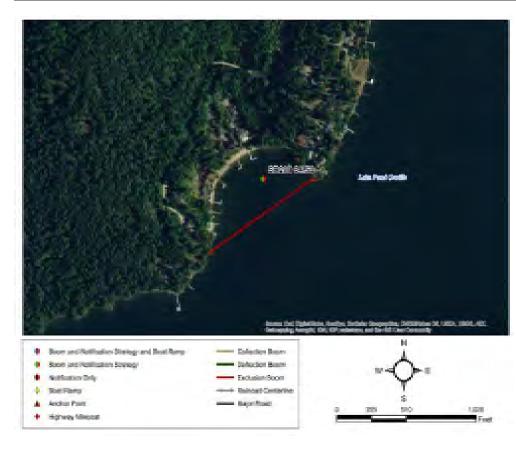
Downstream view of slough from the east side of bridge.



East view of bridge and small parking area.

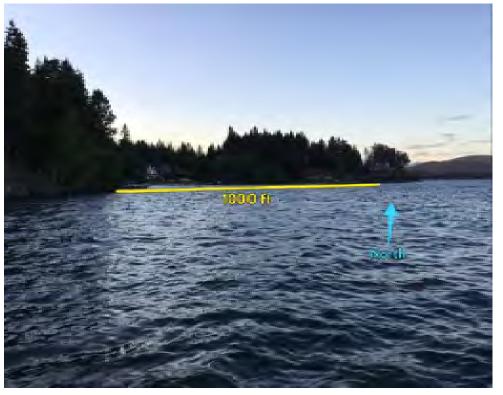
## **Oden Water Assn Water Intake**

Site Lat Long:	<u>48.298221 -116.85555</u> (http://www.google.com/maps/place/48.298221,-116.472555)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Oden Water Assn Water Intake.	
Implementation:	Secure upstream end of boom to North Shoreline to steel post. Secure downstream end of boom to South Shoreline to steel post. Vacuum truck access is poor. Notify Oden Water Association.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is none. Private community. Access from boat only. Trestle Creek boat launch is 9.4 miles away.	
Field Notes:	<ul> <li>No road access</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Community water intake	
Watercourse:	Lake Pend Oreille; approx. depth is 10 to 20 feet	



Suggested Equipment	
Quantity	Description
1000 ft.	Curtain Boom Tow Bridles
As Appropriate	
1250 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation?	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight (South Pageter)



Nearest Cache: Sandpoint (7.1 miles) Second Cache: Cabinet Gorge Dam (28.2 miles)

Carla Poelstra, Intake Manager (208) 255-4001



Nearest Address: 55 Ideal Dr. Sandpoint ID 83864

## **Site Access** - use Sandpoint City Beach boat launch, directions below

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave 246 ft
- 4. Turn right onto Bridge St 0.2 mi
- 5. Turn right

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View of water intake area from private residence east of the bay.



View of the Oden water intake cover, looking northwest.

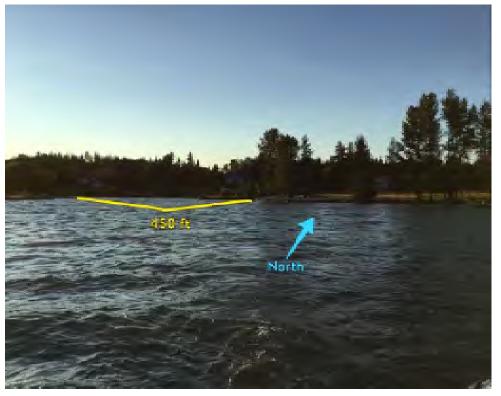
# **Culver Slough**

Site Lat Long:	48.316028 -116.455518 (http://www.google.com/maps/place/48.316028,-116.455518)
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Culver Slough.
Implementation:	Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. No boat launch facilities. Use Sandpoint City Beach boat launch. Trestle Creek boat launch is 7.6 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Culver Slough, fish habitat, wetlands, recreation.
Watercourse:	Lake Pend Oreille; substrate is mud; approx. depth is 5 to 10 feet; slow moving; shoals.



Suggested Equipment	
Quantity	Description
450 ft.	Curtain Boom Tow Bridles
As Appropriate	
525 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
1	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fechel Sylift vester)



Nearest Cache: Sandpoint (7.1 miles) Second Cache: Cabinet Gorge Dam (28.2 miles)



Nearest Address: 224 Sunnyside Rd. Sandpoint ID 83864

## **Site Access** - use Sandpoint City Beach boat launch, directions below

Sandpoint, Idaho

- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn left onto Pine St 0.3 mi
- 3. Pine St turns left and becomes N First Ave 246 ft
- 4. Turn right onto Bridge St 0.2 mi
- 5. Turn right

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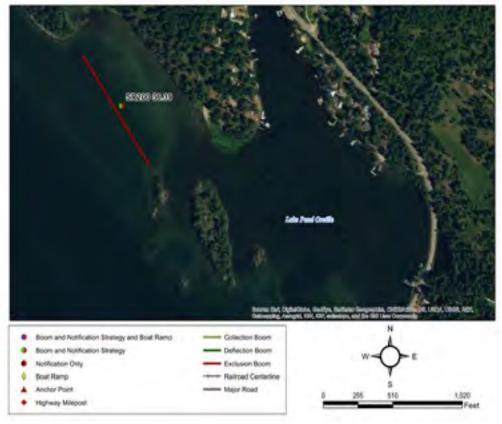


Culver slough seen from the Kaniksu Estates road.



Culver Slough from lake Pend Orellie looking northwest.

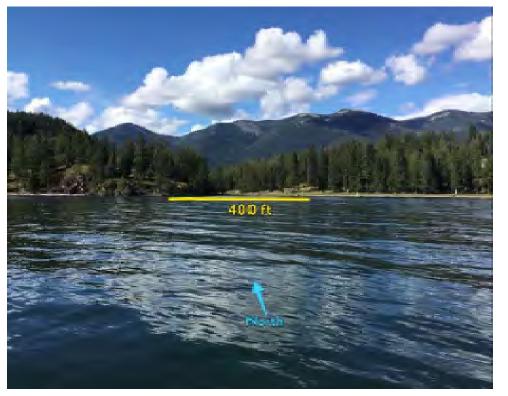
Site Lat Long:	<u>48.29857 -116.423699</u> (http://www.google.com/maps/place/48.29857,-116.423699)
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Pend Orielle state wildlife management area upper.
Implementation:	Lake Pend Oreille flow direction is to the west. Secure upstream end of boom East Shoreline to tree. Secure downstream end of boom West Shoreline to tree.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. No boat launch facilities. Hawkin's Point boat launch is 3.6 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Wildlife management area
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is over 20 feet.



Quantity	Description
0 ft.	Curtain Boom Tow Bridles
As Appropriate	
	Polypropylene Line
None	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
2	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft need	led for strategy implementation? Y

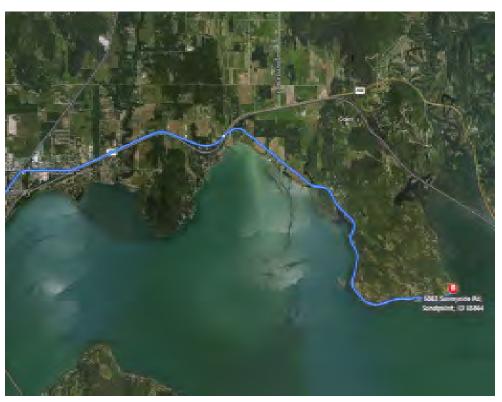
Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
4 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fash (Swiftwater)

#### Pend Orielle State Wildlife Management Area



Nearest Cache: Sandpoint (10.4 miles) Second Cache: Cabinet Gorge Dam (29.2 mile)

#### Site-Specific Points of Contact



Nearest Address: 2766-3426 Sunnyside Rd Kootenai ID 83840

#### Site Access -

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 6.4 mi
- 3. Turn right onto Sunnyside Cut Off Rd 1.2 mi
- 4. Turn left onto Sunnyside Rd for 2.1 mi
- 5. Slight right to stay on Sunnyside Rd

Destination will be on the right

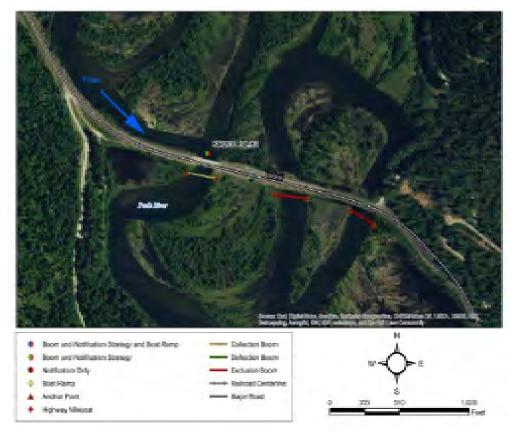


Looking north towards upper management area.



# Pack River Bridge

Site Lat Long:	48.323983 -116.385015 (http://www.google.com/maps/place/48.323983,-116.385015)
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Pack River Bridge.
Implementation:	Pack River flow direction is to the south. Deploy boom across three separate channels under the highway. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. Limited parking along SR200. No boat launch facilities. Trestle Creek boat launch is 3.9 miles away. Trestle Creek BL is 3.9 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Pack River delta, fish habitat, wetlands, recreation
Watercourse:	Pack River: gradient is low; substrate is mud; approx. width is 100 ft.; approx. depth is 5 to 10 feet; braided channels; slow moving.



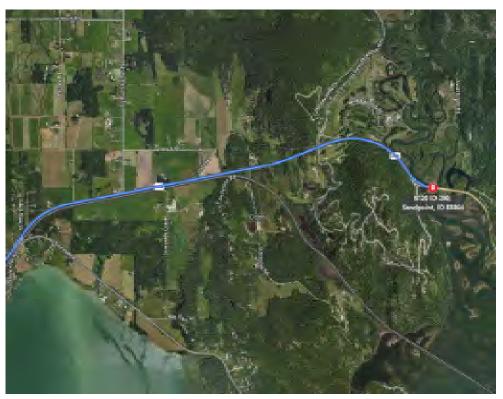
Suggested Equipment	
Quantity	Description
700 ft.	Curtain Boom Tow Bridles
As Appropriate	
900 ft.	Polypropylene Line
18	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft need	led for strategy implementation? N

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
/	Haz-Mat Tech (Boat Operator) / Haz-Mat Fach (Swiftwater)



Nearest Cache: Sandpoint (10.6 miles) Second Cache: Cabinet Gorge Dam (24.5 mile)

### **Site-Specific Points of Contact**



Nearest Address: 3800 Highway 200 Sandpoint ID 83864

## Site Access -

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 8.0 mi



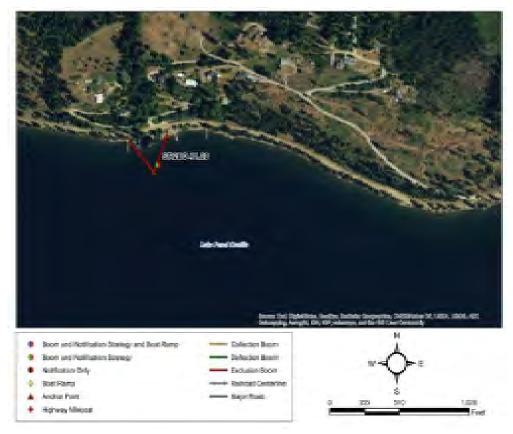
Pack River bridge from SR200 east bound.



Pack River bridge from SR200 west bound.

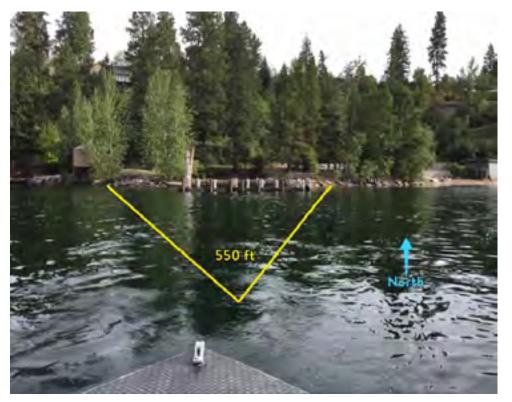
## Sunnyside Water Intake

Site Lat Long:	<u>48.279969 -116.39325</u> (http://www.google.com/maps/place/48.279969,-116.39325)
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Sunnyside water intake.
Implementation:	Lake Pend Oreille flow direction is to the west. Secure upstream end of boom East Shoreline to tree. Secure downstream end of boom West Shoreline to tree. Vacuum truck access is good. Notify Sunnyside Water Intake.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is medium. Private road with room for parking and equipment staging. No boat launch facilities. Hawkin's Point boat launch is 0.8 miles away.
Field Notes:	<ul> <li>Buoy anchor for mid point boom set</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>
Resources Targeted:	Water intake
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is over 20 feet.



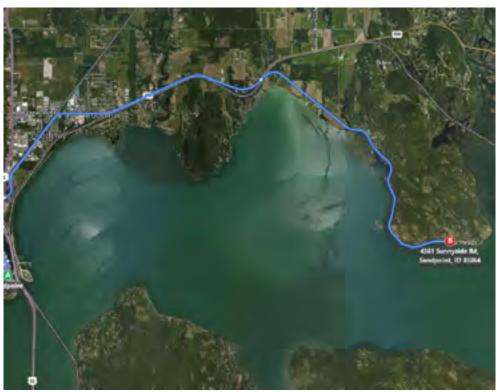
Suggested Equipment	
Quantity	Description
550 ft.	Curtain Boom Tow Bridles
As Appropriate	
650 ft.	Polypropylene Line
0	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
1	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fash (Swiftwater)



Nearest Cache: Sandpoint (12.8 miles) Second Cache: Cabinet Gorge Dam (31.6 miles)

Bob Hansen, Intake Manger (208) 265-4270



Nearest Address: 210 Steamwhistle Way Sandpoint ID 83864

#### Site Access -

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 6.4 mi
- 3. Turn right onto Sunnyside Cut Off Rd 1.2 mi
- 4. Turn left onto Sunnyside Rd 2.1 mi
- 5. Slight right to stay on Sunnyside Rd 1.3 mi
- 4787 Sunnyside Road, Sandpoint, Idaho

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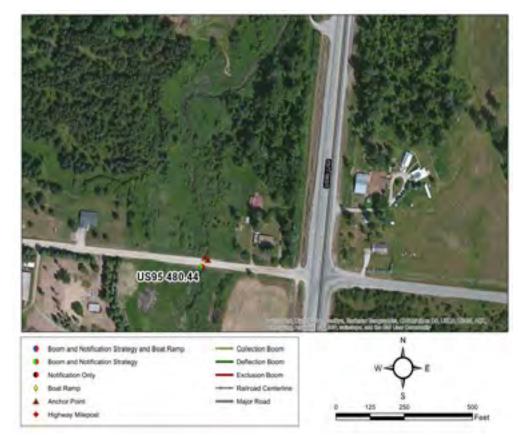
Looking north at water intake and anchor locations.



Staging area looking west.

## West Selle Rd

Site Lat Long:	448.357166 -116.549228 (http://www.google.com/maps/place/48.357166,-116.549228)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	River flow direction is to the north. Deploy collection boom and initiate contaminant recovery at W Selle Rd. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	No staging area. Limited parking available on roadside. No boat launch facilities. Sandpoint City Beach boat launch is 7.1 miles away.
Field Notes:	4WD Access: NO     Seasonal Access Only: NO     Locked Gate: NO
Resources Targeted:	Colburn creek, wildlife habitat
Watercourse:	Gradient is low; substrate is gravel; approx. width is 10 ft.; approx. depth is 1 to 5 feet; channelized; slow moving

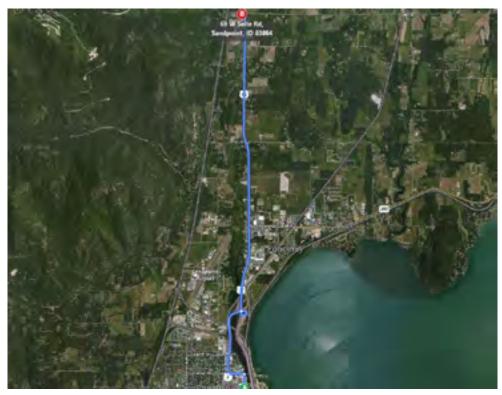


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
50 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)



Nearest Cache: Sandpoint (6.5 miles) Second Cache: Bonners (27.3 miles)



Nearest Address: 37 W Selle Rd Sandpoint ID 83864

## Site Access -

- Sandpoint, Idaho
- 1. Head south on N Fifth Ave toward Cedar St 171 ft
- 2. Turn right onto Cedar St 0.2 mi
- 3. Turn right onto N Boyer Ave 0.3 mi
- 4. At the traffic circle, take the 2nd exit and stay on N Boyer Ave -
- 2.1 mi
- 5. Turn right onto Schweitzer Cutoff Rd 0.2 mi
- 6. Turn left at the 1st cross street onto US2 E/US-95 N 3.3 mi
- 7. Turn left onto W Selle Rd 187 ft

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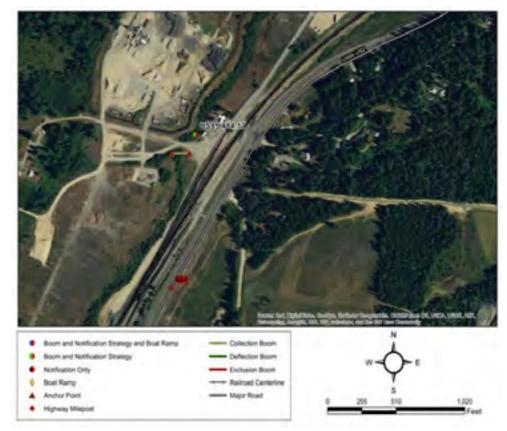
Looking west at the upstream end of culvert and strategy area.



Looking east across bridge.

## **East Colburn**

Site Lat Long:	48.408283 -116.527569 (http://www.google.com/maps/place/48.408283,-116.527569)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	River flow direction is to the north. Deploy collection boom and initiate contaminant recovery at East Colburn. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. Small parking area available along road shoulder adjacent to Colburn creek culvert. No boat launch facilities. Sandpoint City Beach boat launch is 10.6 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Sand creek, Sandpoint municipal water supply, wildlife habitat
Watercourse:	Gradient is low; substrate is gravel; approx. width is 15 ft.; approx. depth is 1 to 5 feet; channelized; slow moving



Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
50 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fighe Swift water)



Nearest Address: 1-499 Browns Rd Sandpoint ID 83864

#### Site Access -

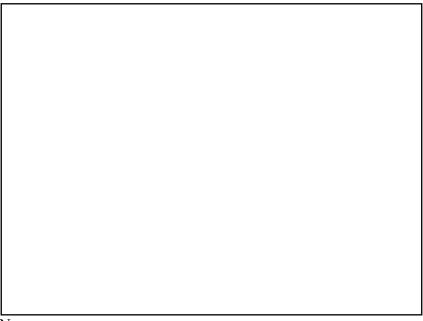
Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 361 ft 3. Take the ramp onto US-95N - 8.7 mi 4. Turn left onto Browns Rd - 203 ft 5. Turn left to stay on Browns Rd - 246 ft

Nearest Cache: Sandpoint (10.3 miles) Second Cache: Bonners (23.5 miles)

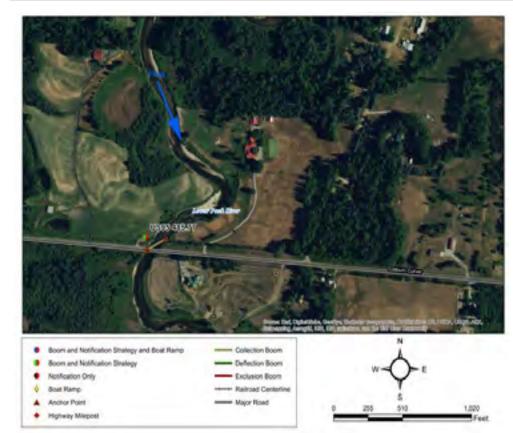
## **Site-Specific Points of Contact**



Looking south at upstream end of culvert and collection point.



Site Lat Long:	48.407838 -116.478474 (http://www.google.com/maps/place/48.407838,-116.478474)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Pack River flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Lower Pack River Collection Point. Secure upstream end of boom River Left to steel post. Secure downstream end of boom River Right to steel post. Vacuum truck access is poor.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. Small grass parking area on west side of bridge, north of bridge. No boat launch facilities. Trestle Creek boat launch is 14.5 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Pack River, wildlife habitat, recreation
Watercourse:	Pack River: gradient is low; substrate is sand; approx. width is 90 ft.; approx. depth is 1 to 5 feet; channelized; slow moving

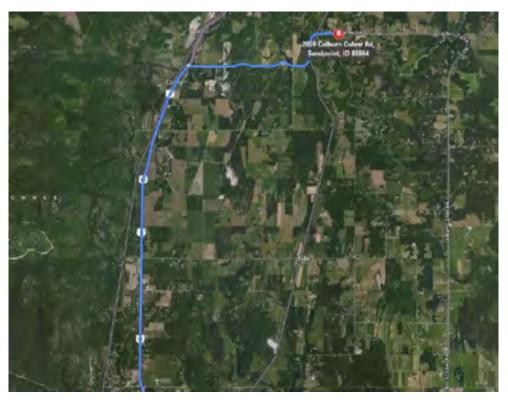


Suggested Equipment	
Quantity	Description
150 ft.	Curtain Boom Tow Bridles
As Appropriate	
225 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fache Swiftwater)



Nearest Cache: Sandpoint (12.4 miles) Second Cache: Bonners (26.9 miles)



Nearest Address: 2771 Rd Colburn Culver Sandpoint ID 83864

## Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 361 ft 3. Take the ramp onto US-95N - 8.1 mi 4. Turn right onto Colburn Culver Rd - 2.9 mi

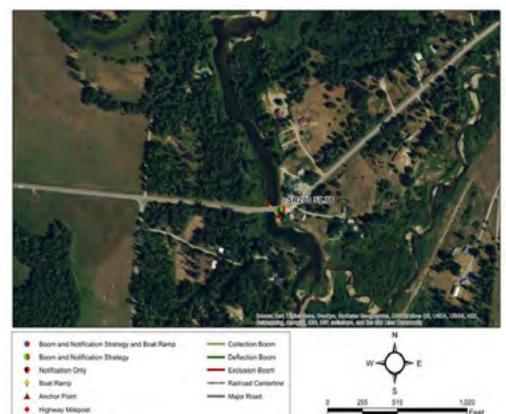


Looking north from collection point on River right to upstream anchor on River left.



Looking west from river bank to staging area.

Site Lat Long:	48.364336 -116.408388 (http://www.google.com/maps/place/48.364336,-116.408388)
Strategy Objective:	Notification and contaminant collection and recovery.
Implementation:	Pack River flow direction is to the south. Deploy collection boom and initiate contaminant recovery at Rapid Lightning Rd Bridge. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good. Notify Northside Fire District.
Site Safety Note:	Complete Job Safety Analysis.
Staging Area:	On site staging is small. Small sandy parking area south of bridge near collection point. No boat launch facilities. Trestle Creek boat launch is 8.2 miles away.
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO
Resources Targeted:	Pack River, reservoir, wildlife habitat, recreation
Watercourse:	Pack River: gradient is low; substrate is sand; approx. width is 70 ft.; approx. depth is 5 to 10 feet; channelized; slow moving



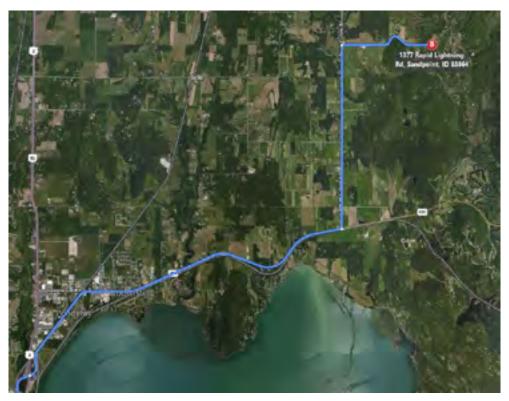
Suggested Equipment	
Quantity	Description
150 ft.	Curtain Boom Tow Bridles
As Appropriate	
200 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Swiftwater)



Nearest Cache: Sandpoint (12.3 miles) Second Cache: Cabinet Gorge Dam (28.8 miles)

Brad Midden, Fire Chief (208) 255-6868



Nearest Address: 1572 Rd Rapid Lightning Sandpoint ID 86864

#### Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 6.2 mi

- 3. Turn left onto Colburn Culver Rd 2.8 mi
- 4. Turn right onto Rapid Lightning Rd/Rapid Lightning Creek Rd
- 1572 Rapid Lightning Creek Road



Looking north from collection point on River right to upstream anchor on River left.



Looking east from shore into staging area.

Cardboard Sector 5

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# NorthwestArea Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
	SR200 40.78	MRL4 107.95	Pack River Trestle	Uncertain	SR200 42.59
	SR200 42.09	MRL4 106.71	Trestle Creek	Unlikely	SR200 42.59
u	SR200 46.4	MRL4 102.4	Red Fir Resort Water Intake	Yes	SR200 42.59
ŇO	SR200 48.08	MRL4 100.86	Islandview Resort Water	Yes	SR200 47.9
Sam			Intake		
- 5 S	SR200 49.45	MRL4 99.36	Kullyspell Estates Water	Yes	SR200 47.38 or SR200 49.46
ctor			Intake		
Sec	SR200 50.19	MRL4 98.52	David Thompson Wildlife	Unlikely	SR200 47.38
			Preserve		
	SR200 50.4	MRL4 98.43	Denton Slough	Unlikely	SR200 51.69

## Sector 5 Sam Owen Fire District

SR200 40.78

SR200 42.09

ale a

SR200 46.4

SR200 48.08

SR200 49.45

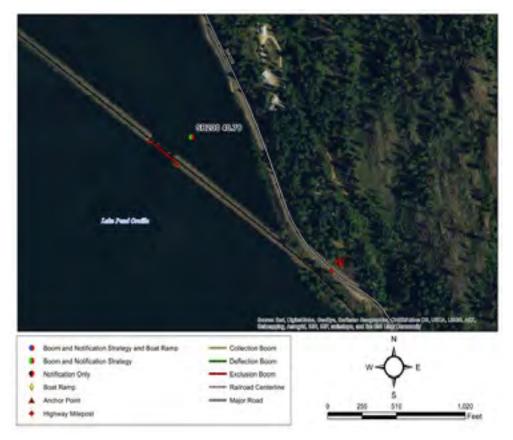
SR200 50.19 🔍

SR200 50.4

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### **Pack River Trestle**

Site Lat Long:	48.29822 -116.36682 (http://www.google.com/maps/place/48.29822,-116.36682)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Pack River Trestle.	
Implementation:	Pack River flow direction is to the south. Secure upstream end of boom to East Shoreline to steel post. Secure downstream end of boom to West Shoreline to steel post. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. Use Trestle Creek boat ramp to deploy boom at Pack River Trestle. Small parking area adjacent to trestle for vehicle parking if needed. No boat launch facilities. Trestle Creek boat launch is 1.8 miles away.	
Field Notes:	<ul> <li>Exclusion boom on either side of trestle depending on which side of track spill occurs.</li> <li>4WD Access: NO  <ul> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul> </li> </ul>	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake	
Watercourse:	Pack River: gradient is low; substrate is sand; approx. width is 900 ft.; approx. depth is over 20 feet; slow moving; channelized	

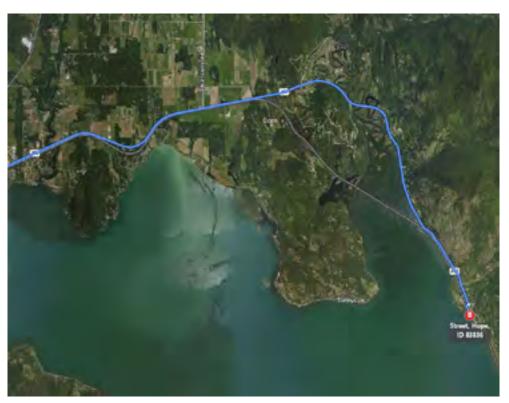


Suggested Equipment		
Quantity	Description	
300 ft.	Curtain Boom Tow Bridles	
As Appropriate		
450 ft.	Polypropylene Line	
10	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Swift water)	



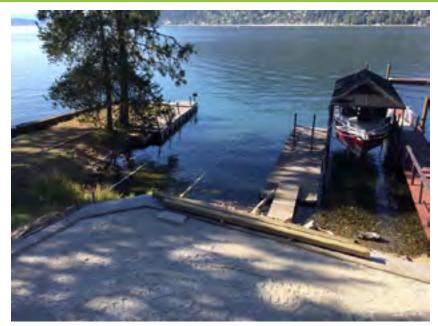
Nearest Cache: Sandpoint (12.7 miles) Second Cache: Cabinet Gorge Dam (22.3 miles)



Nearest Address: 41159 Highway

### Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 17.5 mi Trestle Creek Boat Launch



Looking south from SR200 toward Pack River Trestle.

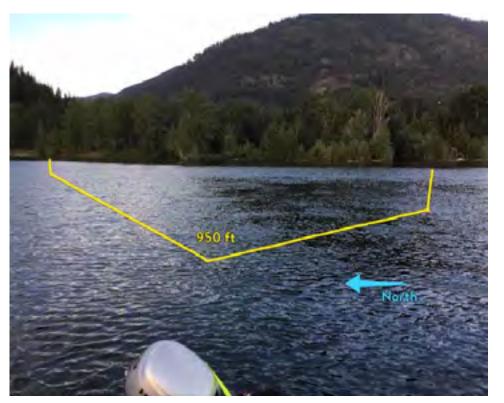
### **Trestle Creek**

Site Lat Long:	48.28316 -116.35418 (http://www.google.com/maps/place/48.28316,-116.35418)	
Strategy Objective:	Prevent contaminant from impacting sensitive area at Trestle Creek.	
Implementation:	Lake Pend Oreille flow direction is to the west. Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom South Shoreline to steel post.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Trestle Creek boat launch is 0.5 miles away.	
Field Notes:	<ul> <li>Use buoys as midpoint anchors for boom set</li> <li>Only accessible by boat from Trestle Creek boat launch</li> <li>4WD Access: NO  <ul> <li>Seasonal Access Only: YES</li> <li>Locked Gate: NO</li> </ul> </li> </ul>	
Resources Targeted:	Threatened and Endangered Species	
Watercourse:	Lake Pend Oreille: gradient is low; substrate is mud; approx. depth is 1 to 5 feet	

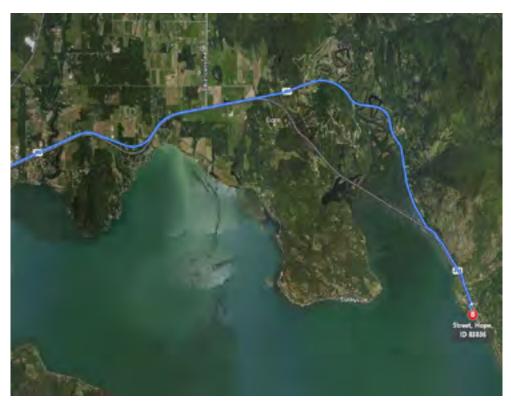


Suggested Equipment		
Quantity	Description	
950 ft.	Curtain Boom Tow Bridles	
As Appropriate		
1250 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
3	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fach (Syzifrygter)	



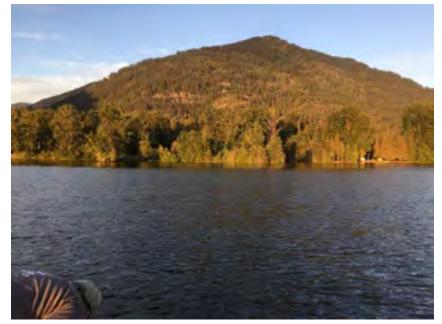
Nearest Cache: Sandpoint (14.1 miles) Second Cache: Cabinet Gorge Dam (21.1 miles)



Nearest Address: 88 N Park Rd Hope ID 83836

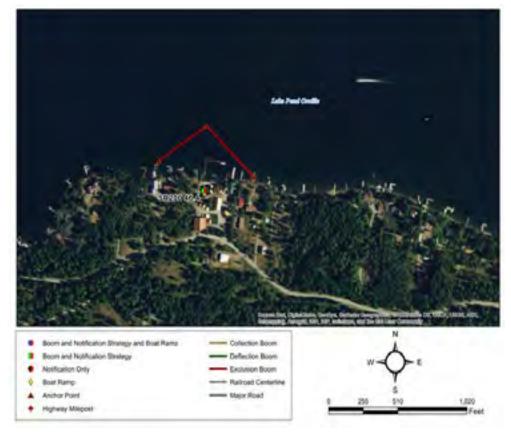
### Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 17.5 mi Trestle Creek Boat Launch



Trestle Creek looking north from Lake Pend Orellie

Site Lat Long:	48.228764 -116.301167 (http://www.google.com/maps/place/48.228764,-116.301167)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Red Fir Resort water intake.	
Implementation:	Secure upstream end of boom East Shoreline to steel post. Secure downstream end of boom West Shoreline to steel post. Vacuum truck access is poor. Notify Red Fir Water Intake.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. Limited staging area and parking available at resort. No boat launch facilities. Beyond Hope Resort boat launch is 1.8 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO	
Resources Targeted:	Municipal water intake	
Watercourse:	Lake Pend Oreille: approx. depth is 10 to 20 feet	

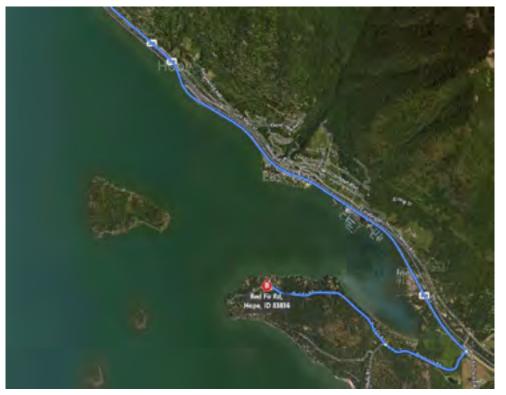


Suggested Equipment		
Quantity	Description	
900 ft.	Curtain Boom Tow Bridles	
As Appropriate		
1100 ft.	Polypropylene Line	
8	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
3	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fechel System)	



Nearest Cache: Cabinet Gorge Dam (17.0 miles) Second Cache: Sandpoint (21.9 miles)



Nearest Address: 1147 Red Fir Rd Hope ID 83836

### Site Access -

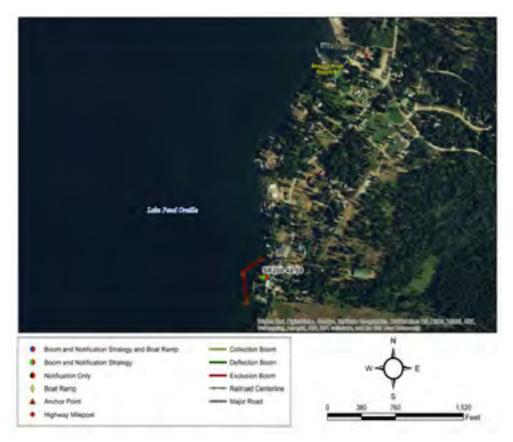
Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 18.3 mi
- 3. Turn right onto Hope Peninsula Rd/NF-1002/Peninsula Rd
- 4. Continue onto Red Fir Rd 1.3 mi
- 1147 Red Fir Road, Hope, Idaho



Water intake

Site Lat Long:	48.209413 -116.288354 (http://www.google.com/maps/place/48.209413,-116.288354)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Island View Resort water intake.	
Implementation:	Secure upstream end of boom to North Shoreline to steel post. Secure downstream end of boom to South Shoreline to steel post. Notify Island View Resort.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Use East Hope Boat Ramp for staging and boat launch. No boat launch facilities. Beyond Hope Resort boat launch is 0.5 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: YES • Locked Gate: NO	
Resources Targeted:	Municipal water intake	
Watercourse:	Lake Pend Oreille: substrate is gravel; approx. depth is 10 to 20 feet	



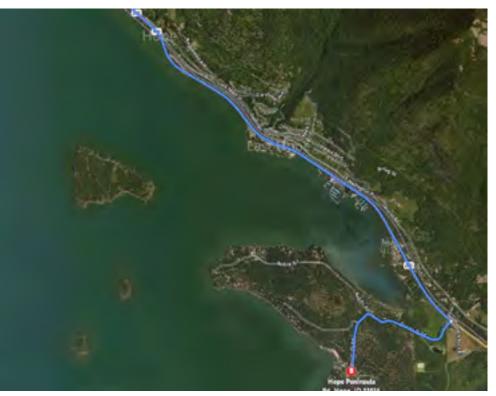
Suggested Equipment		
Quantity	Description	
550 ft.	Curtain Boom Tow Bridles	
As Appropriate		
750 ft.	Polypropylene Line	
None	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
3	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Syster)	



Nearest Cache: Cabinet Gorge Dam (16.8 miles) Second Cache: Sandpoint (21.8 miles)

Misha Van Booven (208) 264-5509



Nearest Address: 1767 Peninsula Rd Hope ID 83836

### Site Access -

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 18.3 mi
- 3. Turn right onto Hope Peninsula Rd/NF-1002/Peninsula Rd 0.8 mi
- 4. Turn left onto Hope Peninsula Rd/Peninsula Rd 1.0 mi
- 1767 Peninsula Road, Hope, Idaho

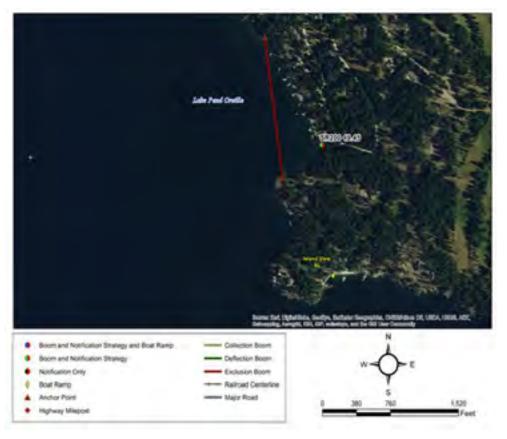


Surface water intake.



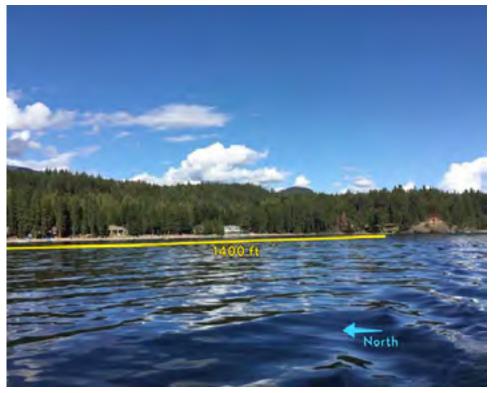
Looking towards the intake from the lake, facing north.

Site Lat Long:	48.197571 -116.28636 (http://www.google.com/maps/place/48.197571,-116.28636)		
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Kullyspell Estates water intake.		
Implementation:	Secure upstream end of boom to North Shoreline to steel post. Secure downstream end of boom to South Shoreline to steel post. Notify Kullyspell Water Intake.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	No staging area. Use East Hope Boat Launch for access and staging. No boat launch facilities. Island View boat launch is 0.3 miles away. Island View BL is 0.3 miles away.		
Field Notes:	<ul> <li>Use Island View Boat Launch for access. Access from boat only.</li> <li>4WD Access: NO · Seasonal Access Only: YES · Locked Gate: NO</li> </ul>		
Resources Targeted:	Municipal water intake		
Watercourse:	Lake Pend Oreille: substrate is gravel; approx. depth is 10 to 20 feet		



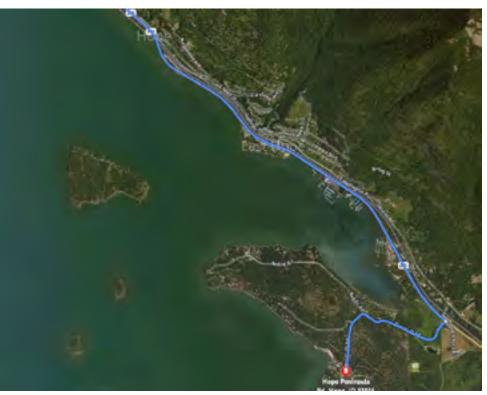
Suggested Equipment		
Quantity	Description	
1500 ft.	Curtain Boom Tow Bridles	
As Appropriate		
1900 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
1	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fache Syniftygater)	



Nearest Cache: Cabinet Gorge Dam (17.8 miles) Second Cache: Sandpoint (22.8 miles)

Jim Erdman, Intake Manager (208) 290-4184



Nearest Address: 575 Osprey Cr Hope ID 83836

**Site Access** - Boat access ony, use Island view boat launch, directions below

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 18.3 mi
- 3. Turn right onto Hope Peninsula Rd/NF-1002/Peninsula Rd 0.8 mi
- 4. Turn left onto Hope Peninsula Rd/Peninsula Rd 1.3 mi
- 5. Turn left onto E David Thompson Rd 0.1 mi
- 6. Turn right onto Osprey Cir 0.5 mi
- 7. Slight left onto Kienholz Dr 266 ft
- Kienholz Drive, Hope, Idaho

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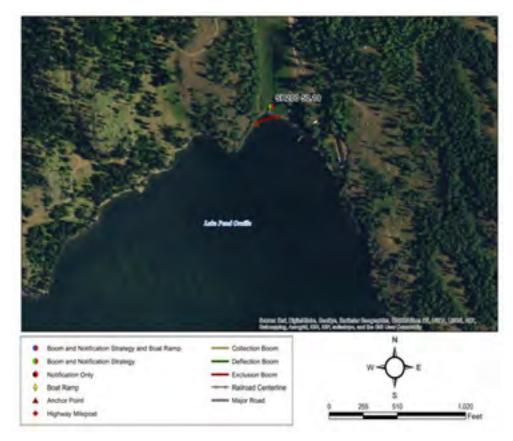


Water intake for Kullyspell Estates located offshore in this area.



Looking at the estates from the lake, facing north.

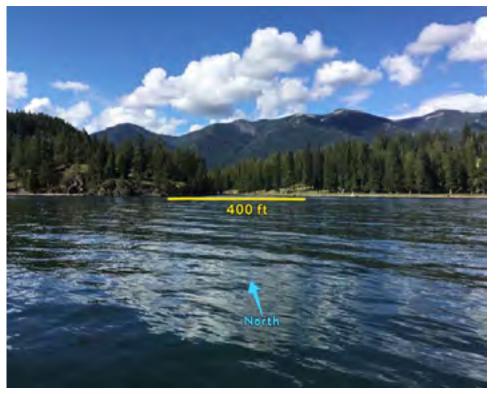
Site Lat Long:	48.191753 -116.261614 (http://www.google.com/maps/place/48.191753,-116.261614)		
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at David Thompson Wildlife Preserve.		
Implementation:	Secure upstream end of boom North Shoreline to steel post. Secure downstream end of boom North Shoreline to steel post. Vacuum truck access is poor. Not accessible by boat in low water.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	No staging area. No boat launch facilities. Hope Marina boat launch is 2.6 miles away.		
Field Notes:	<ul> <li>Private road extends along wildlife preserve, through this road one could access the preserve via land. A private driveway or yard could potentially be used as a staging area, but no boat ramp is present. Closest boat ramp is Hope Marina.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>		
Resources Targeted:	Wildlife		
Watercourse:	Lake Pend Oreille:		



Suggested Equipment				
Quantity	Description			
400 ft.	Curtain Boom Tow Bridles			
As Appropriate				
525 ft.	Polypropylene Line			
6	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
1	In Water Anchors			
As Appropriate	PFD work vests/rubber boots			
As Appropriate	Throw bags, first aid kit			
Jet boat/raft needed for strategy implementation? Y				

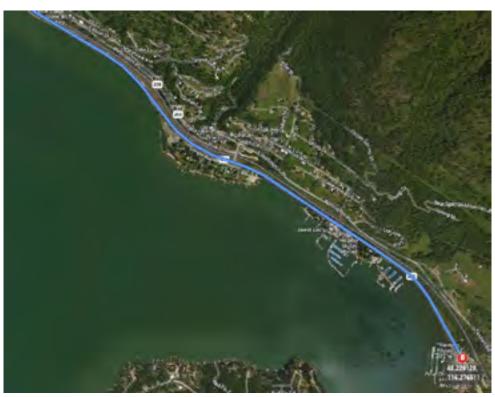
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tege (Syai frygter)	

#### **David Thompson Wildlife Preserve**



Nearest Cache: Cabinet Gorge Dam (16.9 miles) Second Cache: Sandpoint (21.9 miles)

### **Site-Specific Points of Contact**



Nearest Address: 296 Hope School Rd Hope ID 83836

#### Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 18.3 mi 3. Turn right onto Hope Peninsula Rd/NF-1002/Peninsula Rd - 92 ft 4. Turn left onto Hope School Rd - 0.3 mi 5. Turn left - 141 ft 6. Slight right - 92 ft 255 Hope School Road, Hope, Idaho



Close-up view of wildlife preserve, facing northwest.

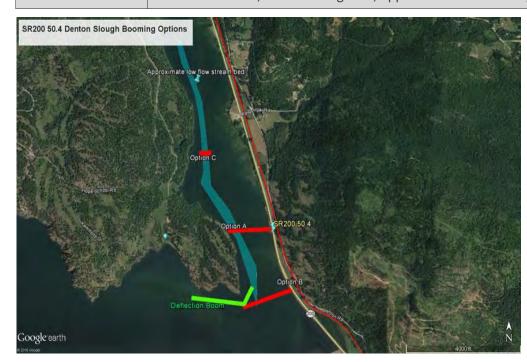


Private residences, that may be used as a possible staging ground, they lie just east of wildlife preserve.

## **Denton Slough**

### (MRL4 98.43) SR200 50.4

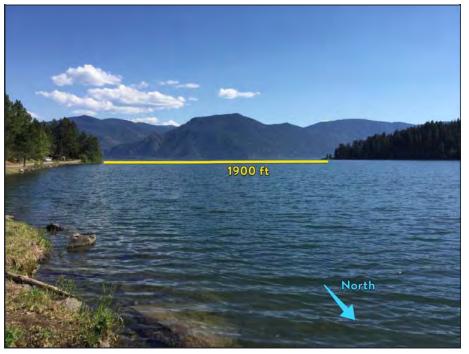
Site Lat Long:	48.192413 -116.246086 (http://www.google.com/maps/place/48.192413,-116.246086)		
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Denton Slough.		
Implementation:	Three booming options are suggested depending upon source of contamination, wind direction and water level. See Section 4.3.2 and the end of this strategy data sheet for further descriptions for 3 booming options.		
Site Safety Note:	Complete Job Safety Analysis. Low water lake levels will result in very muddy and shallow channels		
Staging Area:	On site staging is large. Large parking area for vehicles and equipment on north side of slough, south side of the highway. No boat launch facilities. Clark Fork River Driftyard boat launch is 1.5 miles away.		
Field Notes:	<ul> <li>Use Clark Fork River boat ramp for access from water. No boat ramp at this location. Boom to be placed across inlet of slough or around point at south side of slough inlet depending on wind or spill location.</li> <li>See supplemental information at the end of this strategy data sheet for further information.</li> </ul>		
Resources Targeted:	Recreation, Reservoir, Threatened and Endangered Species, cultural resources		
Watercourse:	Lake Pend Oreille; substrate is gravel; approx. width is 1500 ft.; approx. depth is over 20 feet; slow moving; channelized		



Suggested Equipment			
Quantity		Description	
1900 ft.		Curtain Boom Tow Bridles	
As Appropriate		skimmer and vacuum truck	
2400 ft.		Polypropylene Line	
10	10 Steel Post Anchors		
As Appropriate		Post pounder, shovels, knife, wood saw	
3 In Water Anchors		In Water Anchors	
As Appropriate		PFD work vests/rubber boots	
As Appropriate Throw bags, first aid kit		Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		eeded for strategy implementation? Y	
Suggested Personnel			
Quantity	Title (Function)		
1	Booming Team Leader		
1	Safety Representative		
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)		
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)		

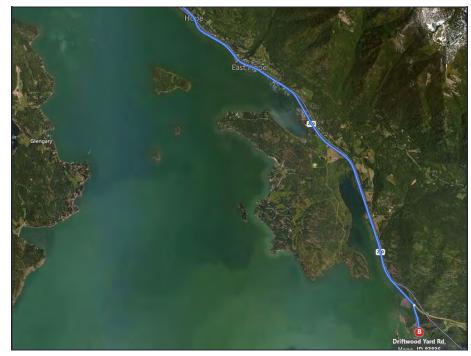
Visited on 2016-06-29

### **Denton Slough**



Nearest Cache: Cabinet Gorge Dam (12.8 miles) Second Cache: Sandpoint (22.2 miles)

Site-Specific Points of Contact: US Army Corps of Engineers State Historical Preservation Office Kalispell Tribe



Nearest Address: 4523 Denton Rd Hope ID 83836

#### Site Acess- directions to Clark Fork River Driftyard boat launch

Sandpoint, Idaho

- 1. Head north on on US-2 E/N Fifth Ave
- 2. Continue onto ID-200
- 3. Continue for 21.6 miles
- (If you cross over the RR track bridge, you went too far)
- 4. Turn right onto Driftyard Road; continue for about 1 mile.

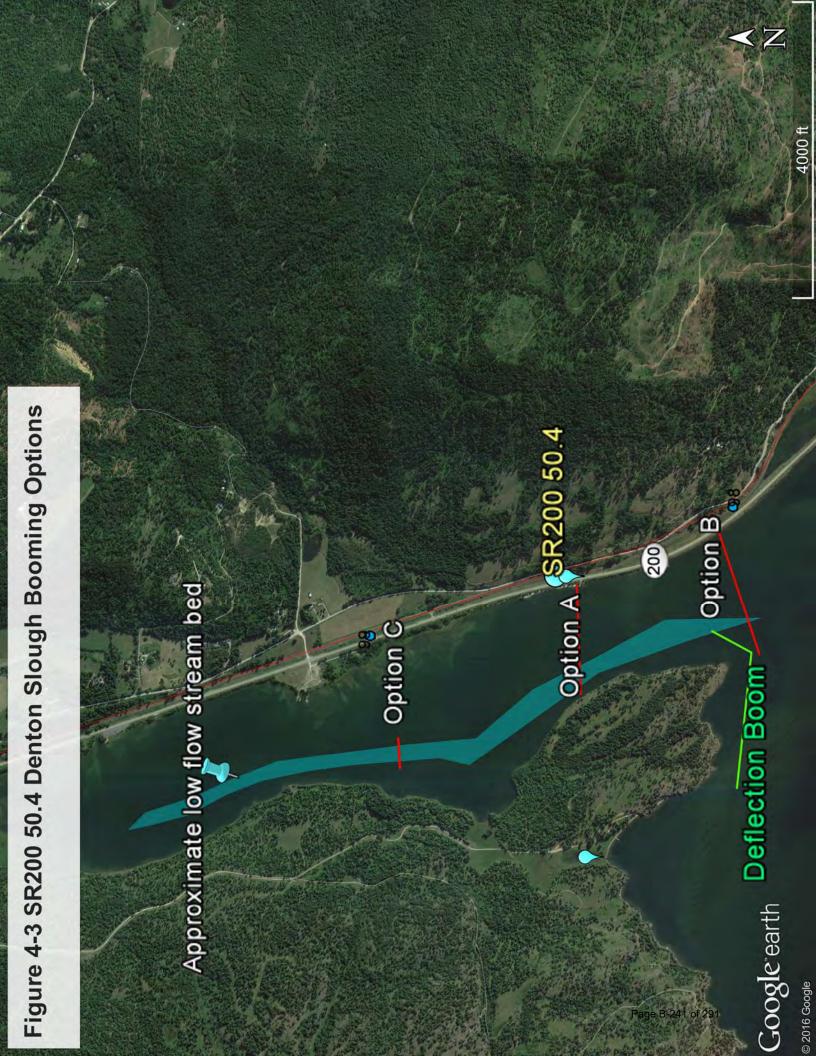


Denton slough staging area.



View from west end of staging area looking at the mouth of Denton slough.

Denton Slough	(MRL4 98.43) SR200 50.4			
Supplemental Information	ı			
Implementation	<ul> <li>Three booming options are suggested depending upon source of contamination, wind direction and water level.</li> <li>See Section 4.3.2 for further descriptions and a larger booming photo.</li> <li>Boom Option A—secure boom to east and west shorelines to steel posts with one in-water anchor in the middle.</li> <li>Boom Option B—Secure east side to steel post and west side to an inwater anchor, with another in-water anchor in the middle if needed. Boom Option C for low water situations – secure east and west sides to steel posts driven into channel bottom.</li> <li>Anticipate significant mud for Boom Option C.</li> <li>Deploy deflection boom as shown in photo below for contamination moving from the lake northwards.</li> </ul>			
Field Notes	<ul> <li>No vehicle access on west side; Dormar Drive, also known as Hope School Road, is gated and does not reach the shore.</li> <li>Vacuum truck access is good on east side</li> <li>Use Clark Fork River boat ramp for access from water. No boat ramp at this location</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: No</li> <li>Locked Gates: <ul> <li>West side Yes</li> <li>East side NO</li> </ul> </li> </ul>			
Contact Notes	For all booming options, contact US Army Corps of Engineers, State Historical Preservation Office, and Kalispell Tribe for boom anchor location limitations.			



Cardboard Sector 6

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# NorthwestArea Committee 2020

Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
	SR200 51.69	MRL4 97.35	Driftyard Boat Launch	Unknown	On-Site
	SR200 54.83	MRL4 94.47	Johnson Creek Trestle	Unlikely	SR200 54.83
	SR200 55.30	MRL4 94.22	Johnson Creek Collection	Unknown	On-Site
논	SR200 56.05	MRL4 92.92	Clark Fork Bridge	Yes	SR200 57.07
Sector 6 Clark Fork	SR200 57.12	Mrl4 91.79	Lower Fish Hatchery Slough	Uncertain	SR200 57.07
	SR200 58.62	MRL4 90.45	Upper Fish Hatchery Slough	Uncertain	Uncertain
Se	SR200 60.79	MRL4 87.66	Clark Fork River Access	Yes	SR200 60.79
	SR200 61.63	MRL4 86.81	Cabinet Gorge Fish Hatchery	Yes	On-Site
	SR200 62.95	MRL4 85.35	Cabinet Gorge Dam	Yes	On-Site

## Sector 6 Clark Fork

SR200 54.83 🔍

SR200 56.05

ALC: N

SR200 57.12

SR200 58.62

24

SR200 60.79

SR200 62.95

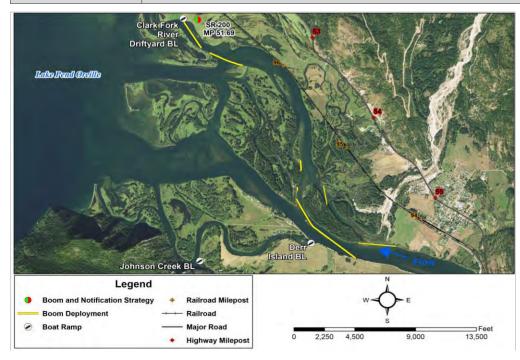
SR200 61.63

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### **Driftyard Boat Launch**

### (MRL4 97.35) **SR200 51.69**

Site Lat Long:	48.173538 -116.231988 (http://www.google.com/maps/place/48.173538,-116.231988)		
Strategy Objective:	Notification and collection and recovery.		
Implementation:	Boom will go out in five segments. The most upstream segment is segment 1, with each downstream segment increasing in sequentail number. Secure upstream end of segment 1 on River Left to steel post. Add mid point anchors as needed. Secure downstream end of segment 1 on River Left (of River Right channel braid) to steel post. Secure segments 2, 3, and 4 on River left to steel posts as to prevent product from leaving river right channel. Secure upstream end of segment 5 River Left to steel post. Secure downstream end of segment 5 River right channel.		
Site Safety Note:	Complete Job Safety Analysis.		
Staging Area:	On site staging is large. Site facilities include concrete boat launch and large parking area.		
Field Notes:	4WD Access: NO Seasonal Access Only: NO Locked Gate: NO		
Resources Targeted:	: Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake.		
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx width is 840 ft; approx. depth is 10 to 20 feet; braided channels; slow moving		



Suggested Equipment		
Quantity	Description	
8,850 ft.	Curtain Boom Tow Bridles	
As Appropriate	Portable Skimmer; Vacuum Truck; Absorbent Boom	
3,000 ft.	Polypropylene Line	
30	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
5	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		
Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
12 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
2 / 2	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)	

Visited on 2018-05-17

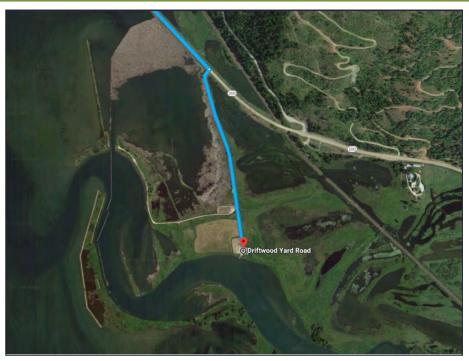
### **Driftyard Boat Launch**

### (MRL4 97.35) SR200 51.69



Nearest Cache: Cabinet Gorge Dam (11.5 miles) Second Cache: Sandpoint (23.0 miles)

### **Site-Specific Points of Contact**



Nearest Address: Driftwood Yard Rd Hope ID 83836

### Site Access

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 21.6 mi
- 3. Turn right onto Driftwood Yard Rd- 0.5 mi



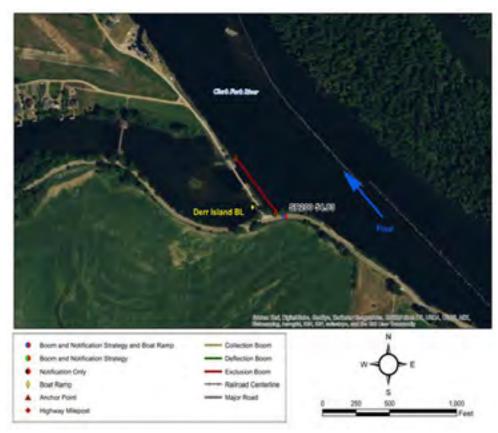
An aerial view of potential staging area.



Looking downstream, where the most upstream piece of boom would be placed.

### Johnson Creek Trestle

Site Lat Long:	48.141411 -116.205066 (http://www.google.com/maps/place/48.141411,-116.205066)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Johnson Creek Trestle.	
Implementation:	Clark Fork flow direction is to the west. Secure upstream end of boom River Left to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. The staging area consists of a small gravel boat ramp, off of a county road. There is very limited parking and working area. Gravel boat launch. Derr Island boat launch is at site.	
Field Notes:	<ul> <li>The Johnson Creek road trestle is privately owned by Delta Shore estates. With access to this road one could do exclusion boom without a boat, but a boat would greatly assist the operation.</li> <li>4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO</li> </ul>	
Resources Targeted:	Wildlife, Recreation	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 900 ft.; approx. depth is 10 to 20 feet; braided channels; slow moving	

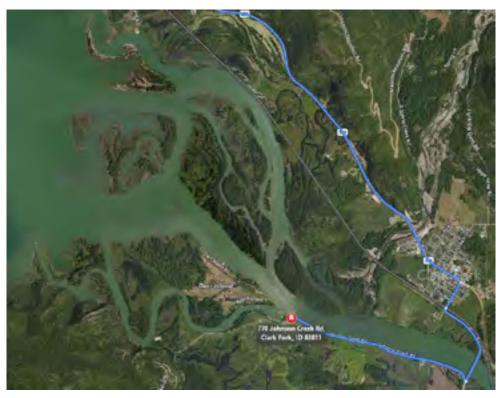


Suggested Equipment		
Quantity	Description	
300 ft.	Curtain Boom Tow Bridles	
As Appropriate		
400 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
10	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
1 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Tech (Boat Operator)	



Nearest Cache: Cabinet Gorge Dam (10.5 miles) Second Cache: Sandpoint (29.6 miles)



Nearest Address: 1348 Johnson Crk Rd Clark Fork ID 83811

### Site Access -

Sandpoint, Idaho
1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi
2. Continue onto ID-200 - 25.4 mi
3. Turn right onto Stephen St - 0.3 mi
4. Turn left onto S River Rd - 0.7 mi
5. Continue onto Johnson Creek Rd - 295 ft
6. Turn right to stay on Johnson Creek Rd - 1.6 mi
Destination will be on the right

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Looking South, towards Johnson Creek road bridge over Clark Fork South braid.

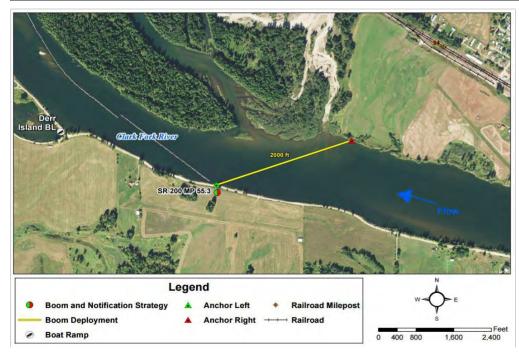


Looking South, towards Johnson Creek road bridge over Clark Fork South braid.

## Johnson Creek Collection

## (MRL4 94.22) SR200 55.30

Site Lat Long:	48.139049 -116.197012 (http://www.google.com/maps/place/48.139049,-116.197012)	
Strategy Objective:	Notification and collection and recovery.	
Implementation:	Clark Fork flow direction is to the west. Deploy collection boom and initiate recovery. Secure upstream end of boom River Right to tree or steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. No boat launch facilities. Derr Island Boat Launch is 0.5 miles downstream.	
Field Notes:	4WD Access: NO       Seasonal Access Only: NO       Locked Gate: NO	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake.	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. Width is 900 ft.; approx. depth is over 20 feet; slow to medium velocity based on	

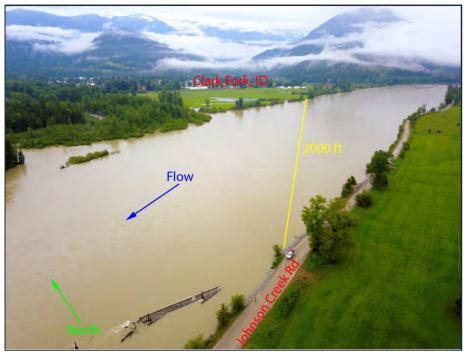


Suggested Equipment		
Quantity		Description
2,000 ft.		Curtain Boom Tow Bridles
As Appropriate		Portable Skimmer; Vacuum Truck; Absorbent Boom
2,500 ft.		Polypropylene Line
8		Steel Post Anchors
As Appropriate		Post pounder, shovels, knife, wood saw
0		In Water Anchors
As Appropriate		PFD work vests/rubber boots
As Appropriate		Throw bags, first aid kit
Jet boat/raft ne		eeded for strategy implementation? Y
Suggested Personnel		
Quantity	Title	e (Function)
1	Boo	ming Team Leader
1	Safe	ty Representative
8 / 0	Haz-	Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
2 / 2	Haz-	Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)

Visited on 2018-05-17

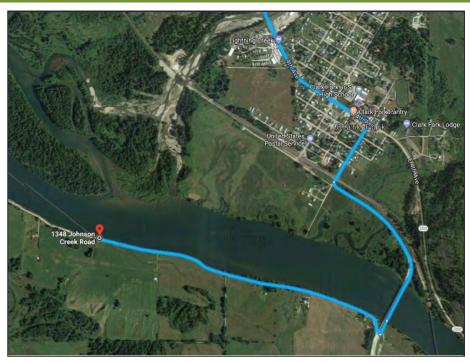
## **Johnson Creek Collection**

### (MRL4 94.22) SR200 55.30



Nearest Cache: Cabinet Gorge Dam (9.3 miles) Second Cache: Sandpoint (28.5 miles)

### **Site-Specific Points of Contact**



Nearest Address: 1348 Johnson Creek Rd Clark Fork ID 83811

## Site Access

Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 25.4 mi
- 3. Turn right onto Stephen St- 0.3 mi
- 4. Turn left onto S River Rd- 0.7mi
- 5. Turn right onto Johnson Creek Rd- 1.1 mi



Looking River Left at potential collection eddy and staging area.

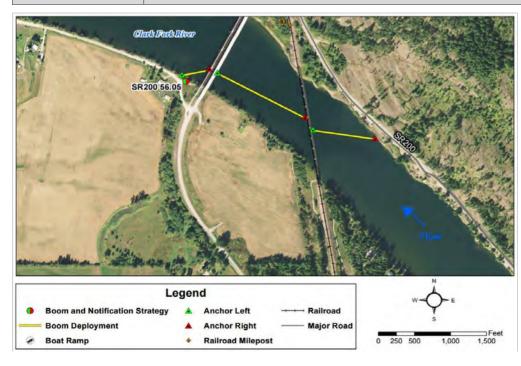


Looking River Right at possible anchor location for upstream end of boom.

## **Clark Fork Bridge**

## (MRL4 92.92) **SR200 56.05**

Site Lat Long:	48.135 -116.174465 (http://www.google.com/maps/place/48.135,-116.174465)	
Strategy Objective:	Notification and collection and recovery.	
Implementation:	Clark Fork flow direction is to the west. Boom will go out in three segments. The upstream segment is segment 1, middle segment is segment 2, and downstream segment is segment 3. Secure upstream end of segment 1 on River Right to steel post or natural anchor. Secure downstream end of segment 1 to mid stream bridge pylon of the railroad bridge. Secure upstream end of segment 2 to mid stream railroad bridge pylon. Secure downstream end of segment 2 to midstream bridge pylon on Johnson Creek Road. Secure	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. Small vehicle and equipment parking area at sportsman access on west side of south river road bridge. No boat launch facilities. Pint Lane boat launch is 1.4 miles away.	
Field Notes:	4WD Access: NO Seasonal Access Only: NO Locked Gate: NO	
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 840 ft.; approx. depth is 10 to 20 feet; channelized; slow to moderate	



Suggested Equipment		
Quantity		Description
1800 ft.		Curtain Boom Tow Bridles
As Appropriate		Portable Skimmer; Vacuum Truck
2250 ft.		Polypropylene Line
6		Steel Post Anchors
As Appropriate		Post pounder, shovels, knife, wood saw
4		In Water Anchors
As Appropriate		PFD work vests/rubber boots
As Appropriate		Throw bags, first aid kit
Jet boat/raft ne		eeded for strategy implementation?
Suggested	Suggested Personnel	
Quantity	Title	e (Function)
1	Boo	ming Team Leader
1	Safe	ty Representative
6 / 0	Haz-	Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
2 / 2	Haz-	Mat Tech (Boat Operator) / Haz-Mat Tech (Swiftwater)

Visited on 2016-06-29

### **Clark Fork Bridge**



Nearest Cache: Cabinet Gorge Dam (9.0 miles) Second Cache: Sandpoint (28.1 miles)

#### **Site-Specific Points of Contact**



Nearest Address: 70 Johnson Crk Rd Clark Fork ID 83811

#### Site Access - by boat, directions to Johnson Creek Boat launch

#### Sandpoint, Idaho

- 1. Head north on US-2 E/N Fifth Ave toward Alder St 1.0 mi
- 2. Continue onto ID-200 25.4 mi
- 3. Turn right onto Stephen St 0.3 mi
- 4. Turn left onto S River Rd 0.7 mi
- 5. Continue onto Johnson Creek Rd 295 ft
- 6. Turn right to stay on Johnson Creek Rd 9.5 mi
- 7. Turn right onto Johnson Creek Rd/NF-278 5.0 mi

8. Turn left to stay on Johnson Creek Rd/NF-278 - 3.4 mi Johnson Creek Boat Launch



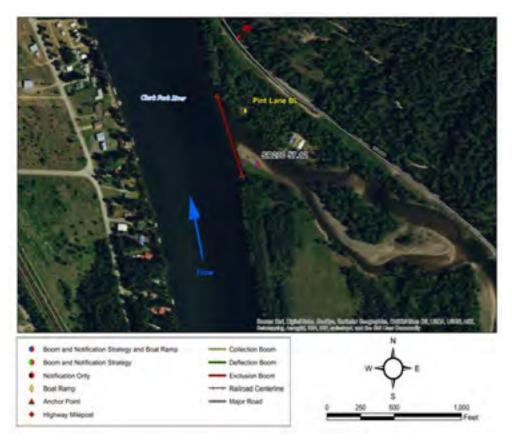
View looking upstream from collection point to River right bridge piling anchor.



Looking east at the staging area from South Side River Road.

## Lower Fish Hatchery Slough

Site Lat Long:	48.123607 -116.155906 (http://www.google.com/maps/place/48.123607,-116.155906)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Lower fish hatchery slough.	
Implementation:	Clark Fork flow direction is to the west. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. Gravel boat launch. Pint Lane boat launch is at site.	
Field Notes:	<ul> <li>Nearby private boat launch.</li> <li>Only accessible by boat</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: YES</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Threatened and Endangered Species, Reservoir, Wetland	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 858 ft.; approx. depth is 10 to 20 feet	



Suggested Equipment		
Quantity	Description	
250 ft.	Curtain Boom Tow Bridles	
As Appropriate		
300 ft.	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel	
Quantity Title (Function)	
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fache System

## **Lower Fish Hatchery Slough**



Nearest Cache: Cabinet Gorge Dam (6.2 miles) Second Cache: Sandpoint (28.9 miles)

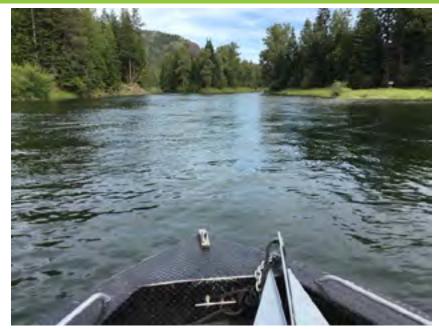
## **Site-Specific Points of Contact**



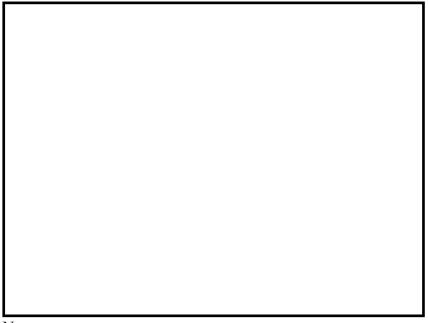
Nearest Address: 57140 Highway 200 Clark Fork ID 83811

### Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 25.5 mi 57140 Idaho-200, Clark Fork, Idaho

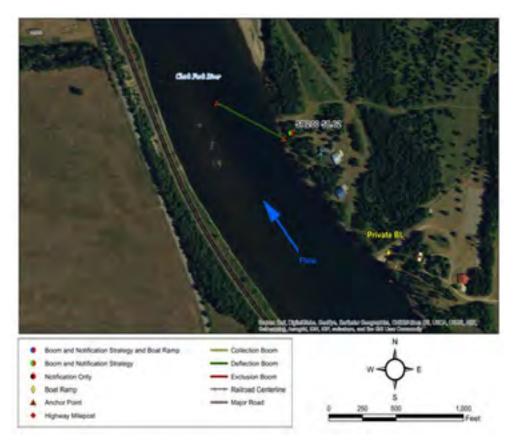


Lower fish hatchery slough from down River looking east



## **Upper Fish Hatchery Slough**

Site Lat Long:	48.105616 -116.143659 (http://www.google.com/maps/place/48.105616,-116.143659)	
Strategy Objective:	Notification and deflection away from shoreline.	
Implementation:	Clark Fork flow direction is to the west. Deflect contaminant moving downstream away from shoreline at Upper fish hatchery slough diversion. Secure upstream end of boom River Right to steel post. Secure downstream end of boom Midstream to buoy. Notify private land owner.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. No boat launch facilities. Private boat launch is 0.2 miles away.	
Field Notes:	Contact Royce Anderson 2082661177     4WD Access: NO     Seasonal Access Only: YES     Locked Gate: NO	
Resources Targeted:	Threatened and Endangered Species, Reservoir, Wetland	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 750 ft.; approx. depth is over 20 feet	



Suggested Equipment		
Quantity	Description	
800 ft.	Curtain Boom Tow Bridles	
As Appropriate		
1000 ft.	Polypropylene Line	
4	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
1	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel	
Quantity Title (Function)	
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fachel System

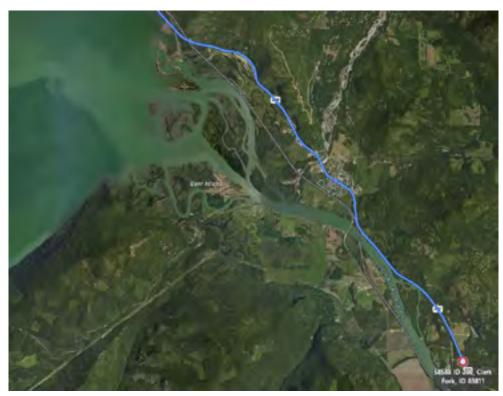
## **Upper Fish Hatchery Slough**



Nearest Cache: Cabinet Gorge Dam (11.4 miles) Second Cache: Sandpoint (30.5 miles)

## **Site-Specific Points of Contact**

Royce Anderson, land owner (208) 266-1177



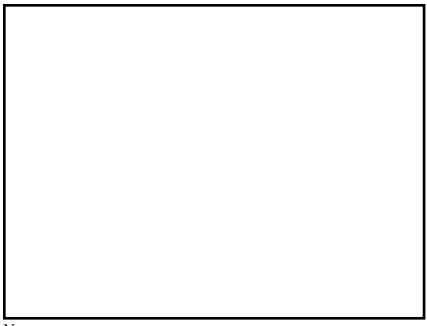
Nearest Address: 58344 Highway 200 Clark Fork ID 83811

## Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 28.7 mi 3. Turn right when possible for river access, access is by un-named two track to river Upper fish hatchery slough diversion



Looking down river at deflection site



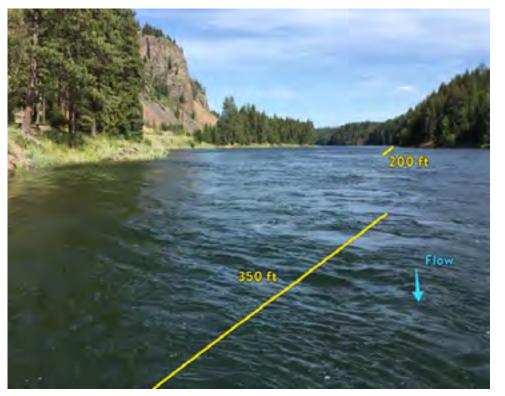
## **Clark Fork River Access**

Site Lat Long:	48.09251 -116.096934 (http://www.google.com/maps/place/48.09251,-116.096934)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Clark Fork flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Clark Fork River Access. Secure upstream end of boom River Left to steel post. Secure downstream end of boom Midstream to buoy. Secure downstream end of second boom River Left to steel post. Vacuum truck access is good. Notify Avista Utilities.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is medium. Gravel parking lot on right with a concrete boat launch. Clark Fork River Access boat launch is at site.	
Field Notes:	<ul> <li>Boat launch is locked. Contact Avista for access 406-847-1280.</li> <li>4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO</li> </ul>	
Resources Targeted:	Recreation, Reservoir, Threatened and Endangered Species	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 492 ft.; approx. depth is over 20 feet; fast moving	

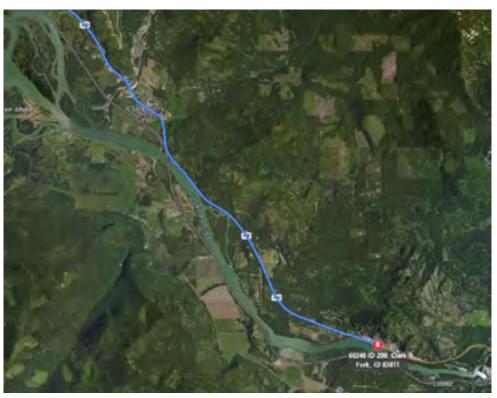


Suggested Equipment		
Quantity	Description	
550 ft.	Curtain Boom Tow Bridles	
As Appropriate		
700 ft.	Polypropylene Line	
8	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
2	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation? Y		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Synthesis (Synthesis)	



Nearest Cache: Cabinet Gorge Dam (2.5 miles) Second Cache: Sandpoint (32.5 miles)



Nearest Address: 60238 Idaho 200 Clark Fork, Idaho

## Site Access -

Sandpoint, Idaho 1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 27.8 mi 60238 Idaho 200, Clark Fork, Idaho



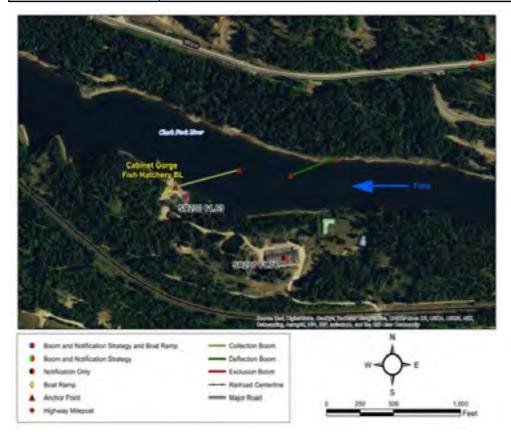
Looking upstream from collection site



Staging area looking west

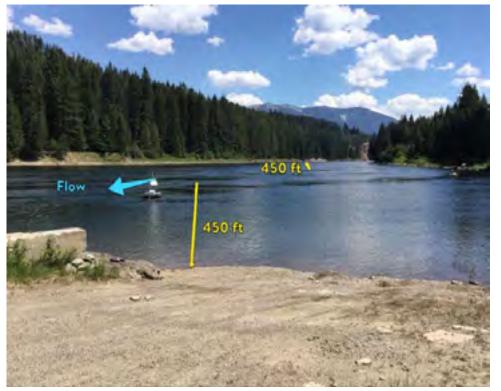
## Cabinet Gorge Fish Hatchery

Site Lat Long:	48.086624 -116.07978 (http://www.google.com/maps/place/48.086624,-116.07978)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Clark Fork flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Cabinet Gorge Fish Hatchery. Secure upstream end of boom River Right to tree. Secure downstream end of boom Midstream to buoy. Secure upstream end of second boom River Left to steel post. Vacuum truck access is good. Notify Avista fish hatchery.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Large parking and staging area on fish hatchery road adjacent to boat ramp. Gravel boat launch.	
Field Notes:	<ul> <li>Monitoring equipment in the water at collection point. May need to be moved during spill containment efforts.</li> <li>4WD Access: NO • Seasonal Access Only: NO • Locked Gate: NO</li> </ul>	
Resources Targeted:	Critical bull trout habitat, fish hatchery release area, Clark Fork River delta, downstream municipal and irrigation water supplies, recreational use, wildlife habitat	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 450 ft.; approx. depth is 10 to 20 feet; slow moving	



Suggested Equipment		
Quantity	Description	
900 ft.	Curtain Boom Tow Bridles	
As Appropriate		
1150 ft.	Polypropylene Line	
5	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
4	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Strater)	



Nearest Cache: Cabinet Gorge Dam (10.9 miles) Second Cache: Sandpoint (35.4 miles)

Tim Swant, Hatchery Manager (406) 847-1282



Nearest Address: 220 Hatchery Rd Clark Fork ID 83811

## Site Access -

Sandpoint, Idaho
1. Head north on US-2 E/N Fifth Ave toward Alder St 2. Continue onto ID-200 - 25.4 mi
3. Turn right onto Stephen St - 0.3 mi
4. Turn left onto S River Rd - 0.7 mi
5. Continue onto Johnson Creek Rd - 295 ft
6. Continue straight onto River Rd - 6.5 mi
7. Turn left onto Cabinet Gorge Rd - 0.6 mi
8. Turn right to stay on Cabinet Gorge Rd - 0.4 mi
Cabinet Gorge Hatchery

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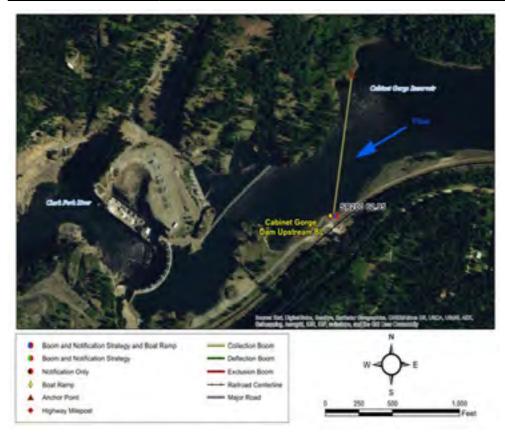
View of boat ramp and collection point looking upstream.



View looking upstream from boat ramp and collection point towards river right anchor.

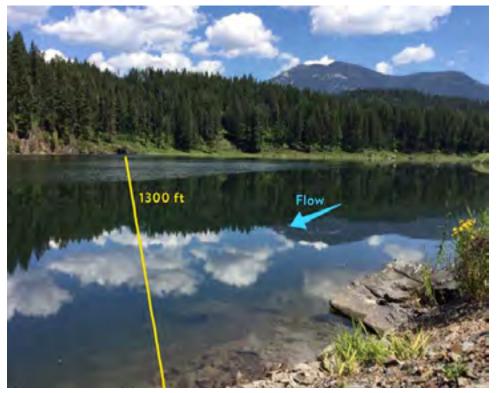
## Cabinet Gorge Dam

Site Lat Long:	48.087117 -116.05216 (http://www.google.com/maps/place/48.087117,-116.05216)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	Clark Fork flow direction is to the west. Deploy collection boom and initiate recovery at Cabinet Gorge Dam. Secure upstream end of boom River Right to tree. Secure downstream end of boom River Left to steel post. Vacuum truck access is good. Notify Avista Cabinet Gorge Dam.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is large. Equipment and vehicle parking area adjacent to rail crossing. Gravel boat launch. Cabinet Gorge Dam Upstream boat launch is at site.	
Field Notes:	<ul> <li>Locked gate on road controlled by Avista 406-847-1280.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: YES</li> </ul>	
Resources Targeted:	Cabinet gorge dam, critical bull trout habitat, Clark Fork River delta, downstream municipal and irrigation water supplies, recreational use, wildlife habitat	
Watercourse:	Clark Fork: gradient is low; substrate is gravel; approx. width is 400 ft.; approx. depth is over 20 feet; slow moving	



Suggested Equipment		
Quantity	Description	
1300 ft.	Curtain Boom Tow Bridles	
As Appropriate		
1700 ft.	Polypropylene Line	
8	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
2	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft needed for strategy implementation?		

Suggested Personnel		
Quantity	Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Swift water)	



Nearest Cache: Cabinet Gorge Dam (9.5 miles) Second Cache: Sandpoint (36.7 miles)

Avista Utilities Cabinet Gorge Dam (Control Room) (208) 266-1531



Nearest Address: 2305 Cabinet Gorge Rd Clark Fork ID 83811

#### Site Access -

Sandpoint, Idaho
1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi
2. Continue onto ID-200 - 25.4 mi
3. Turn right onto Stephen St - 0.3 mi
4. Turn left onto S River Rd - 0.7 mi
5. Continue onto Johnson Creek Rd - 295 ft
6. Continue straight onto River Rd - 6.5 mi
7. Turn left onto Cabinet Gorge Rd - 0.6 mi
8. Turn right to stay on Cabinet Gorge Rd - 0.7 mi
Destination will be on the left

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View looking upstream from collection point to river right anchor.



View looking downstream at collection point and river left anchor on observation deck.

Cardboard Sector 7

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# NorthwestArea Committee 2020

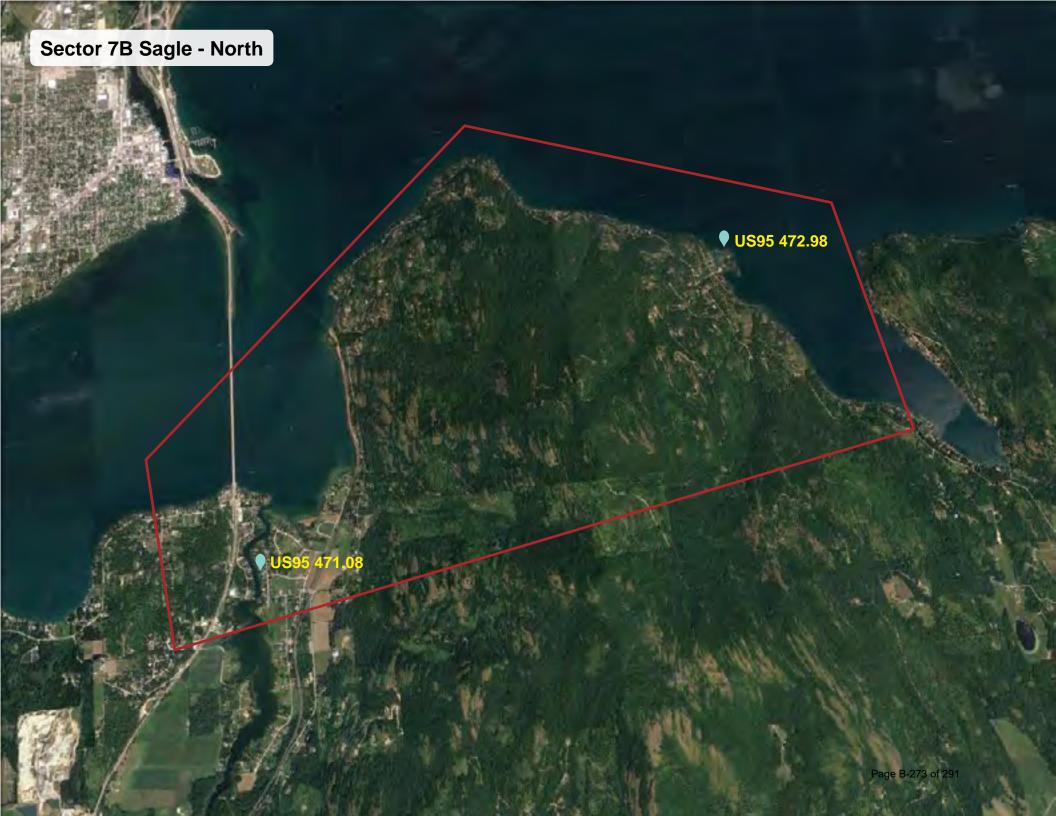
Sector & Map	Site ID & Highway Milepost	Railroad Milepost	Site Name	Accessible by Boat at Low Water?	Nearest Boat Ramp or Staging Area
(South)	US95 461.32	BNSF Spokane 16.94	Cocolalla Creek Trestle	No	US95 463.62
ıgle (So	US95 463.82	BNSF Spokane 14.22	Cocolalla Creek Outlet	No	US95 473.87
or 7A Sagle	US95 463.95	BNSF Spokane 14.07	Cocolalla Loop Road Bridge	No	US95 473.87
Sector	US95 465.11	BNSF Spokane 13.43	Round Lake	Yes	US95 465.12
Sector 7B Sagle (North)	US95 471.08	BNSF Spokane 6.7	Bottle Bay Bridge	No	On-Site
Sector Sagle (No	US95 472.98	MRL4 4.89	Sourdough Pont Water Intake	Yes	US95 472.98

## Sector 7A Sagle - South

**US95 465.11** 

US95 463.95 US95 463.82

US95 461.32



## **Cocolalla Creek Trestle**

Site Lat Long:	48.106531 -116.618517 (http://www.google.com/maps/place/48.106531,-116.618517)	
Strategy Objective:	Notification and contaminant collection and recovery of contaminated material prior to its entrance into Lake Cocolalla	
Implementation:	River flow direction is to the west. Deploy collection boom and initiate contaminant recovery at Cocolalla Creek railroad bridge. Secure upstream end of boom River Left to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is medium. Small parking area adjacent to railroad on west side of track for vehicles. No boat launch facilities. Lake Cocolalla boat launch is 2.9 miles away.	
Field Notes:	<ul> <li>Stream may be intermittent and frozen during winter.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Lake Cocolalla, fish habitat, recreation	
Watercourse:	Gradient is low; substrate is gravel; approx. width is 33 ft.; approx. depth is 1 to 5 feet; channelized; slow moving	

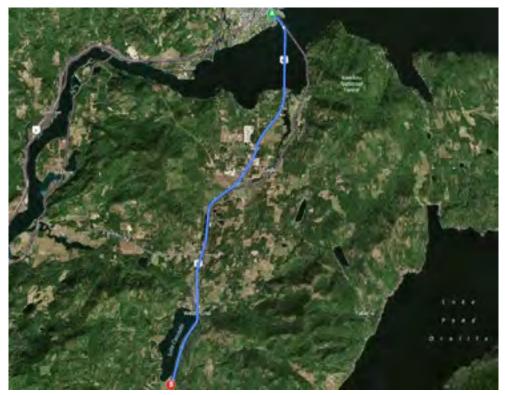


Suggested Equipment		
Quantity	Description	
50 ft.	Curtain Boom Tow Bridles	
As Appropriate		
	Polypropylene Line	
6	Steel Post Anchors	
As Appropriate	Post pounder, shovels, knife, wood saw	
None	In Water Anchors	
As Appropriate	PFD work vests/rubber boots	
As Appropriate	Throw bags, first aid kit	
Jet boat/raft need	led for strategy implementation? N	

Suggested Personnel		
Quantity	tity Title (Function)	
1	Booming Team Leader	
1	Safety Representative	
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)	
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Jech (Sydift yeater)	



Nearest Cache: Sandpoint (13.5 miles) Second Cache: Bonners (45.8 miles)



Nearest Address: 11 Rd Southside School Cocolalla ID 83813

## Site Access -

Sandpoint, Idaho 1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US - 95 S - 15.4 mi



View of the train bridge and parking area.



## **Cocolalla Creek Outlet**

Site Lat Long:	48.141084 -116.613382 (http://www.google.com/maps/place/48.141084,-116.613382)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Cocolalla Creek outlet.	
Implementation:	River flow direction is to the north. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is poor.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	No staging area. No boat launch facilities. Sandy Beach boat launch is 1.7 miles away.	
Field Notes:	<ul> <li>Access by boat for photos and precise measurements.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Cocolalla Creek, Round Lake State Park downstream, fish habitat, wetlands, municipal and irrigation water supply, recreation	
Watercourse:	Gradient is low; substrate is sand; approx. width is 150 ft.; approx. depth is 5 to 10 feet; braided channels; shoals	

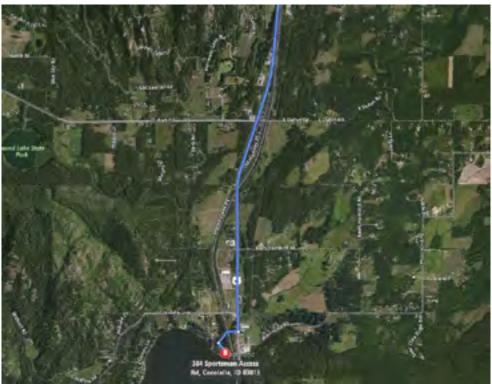


Quantity	Description
200 ft.	Curtain Boom Tow Bridles
As Appropriate	
250 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft need	led for strategy implementation? Y

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Syniftygater)



Nearest Cache: Sandpoint (11.4 miles) Second Cache: Bonners (43.7 miles)



Nearest Address: 398 Sportsmans Access

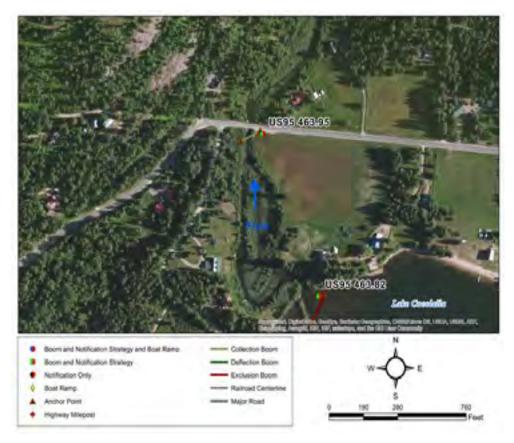
## Site Access -

Sandpoint, Idaho
1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn left onto E Superior St - 0.5 mi
5. Merge onto US - 95 S - 9.5 mi
6. Turn right onto Cocolalla Loop Rd - 0.5 mi
7. Turn left onto road directly after N Beach Rd for best access. Cocolalla Creek Outlet, Cocolalla, Idaho

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## Cocolalla Loop Rd Bridge

Site Lat Long:	48.143234 -116.614958 (http://www.google.com/maps/place/48.143234,-116.614958)	
Strategy Objective:	Notification and contaminant collection and recovery.	
Implementation:	River flow direction is to the north. Deploy collection boom and initiate contaminant recovery at Cocolalla Loop Rd Bridge. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Right to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is small. Limited parking along narrow road shoulder adjacent to bridge. No boat launch facilities. Sandy Beach boat launch is 1.4 miles away.	
Field Notes:	• 4WD Access: NO • Seasonal Access Only: YES • Locked Gate: NO	
Resources Targeted:	Cocolalla Creek, fish habitat, wetlands, Round Lake State Park downstream, municipal and irrigation water supplies, recreation	
Watercourse:	Gradient is low; substrate is sand; approx. width is 30 ft.; approx. depth is 1 to 5 feet; braided channels; shoals; slow moving	

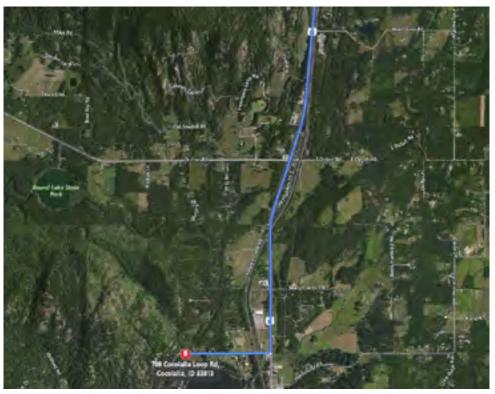


Suggested Equipment	
Quantity	Description
50 ft.	Curtain Boom Tow Bridles
As Appropriate	
50 ft.	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? N	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
0 / 0	Haz-Mat Tech (Boat Operator) / Haz-Mat Fech (Sygift yater)



Nearest Cache: Sandpoint (11.4 miles) Second Cache: Bonners (43.7 miles)



Nearest Address: 524-698 Cocolalla Lp Cocolalla ID 83813

## Site Access -

Sandpoint, Idaho 1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US - 95 S - 9.5 mi 6. Turn right onto Cocolalla Loop Rd - 0.7 mi

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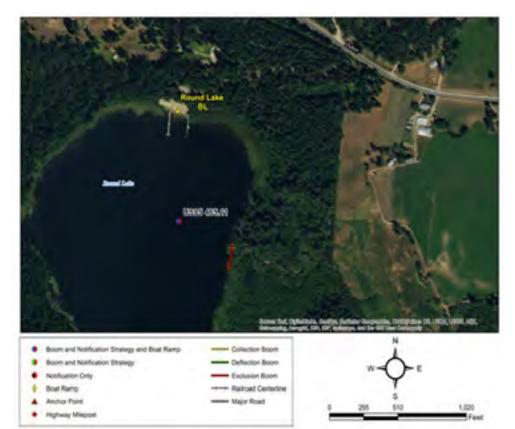
Upstream side of bridge showing creek and culvert.



Looking east across bridge at parking area.

## **Round Lake**

Site Lat Long:	48.162092 -116.637139 (http://www.google.com/maps/place/48.162092,-116.637139)	
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Round Lake.	
Implementation:	Secure upstream end of boom East Shoreline to steel post. Secure downstream end of boom East Shoreline to steel post. Vacuum truck access is good.	
Site Safety Note:	Complete Job Safety Analysis.	
Staging Area:	On site staging is medium. Medium sized parking area adjacent to boat ramp with additional parking for vehicles uphill from the ramp. Gravel boat launch. Round Lake boat launch is at the site.	
Field Notes:	<ul> <li>Exclusion boom across outlet of Cocolalla Creek where it enters lake. No gas powered motors allowed on around lake without permit.</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>	
Resources Targeted:	Municipal water intake	
Watercourse:	Round Lake State Park, fish habitat, recreation	

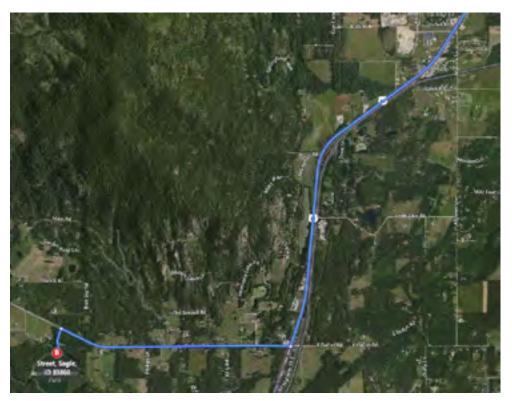


Suggested Equipment	
Quantity	Description
200 ft.	Curtain Boom Tow Bridles
As Appropriate	
	Polypropylene Line
6	Steel Post Anchors
As Appropriate	Post pounder, shovels, knife, wood saw
None	In Water Anchors
As Appropriate	PFD work vests/rubber boots
As Appropriate	Throw bags, first aid kit
Jet boat/raft needed for strategy implementation? Y	

Suggested Personnel	
Quantity	Title (Function)
1	Booming Team Leader
1	Safety Representative
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)
1 / 1	Haz-Mat Tech (Boat Operator) / Haz-Mat Fight Syster)



Nearest Cache: Sandpoint (11.3 miles) Second Cache: Bonners (43.6 miles)



Nearest Address: 1440 Dufort Rd Sagle ID 83860

## Site Access -

Sandpoint, Idaho
1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn left onto E Superior St - 0.5 mi
5. Merge onto US - 95 S - 8.0 mi
6. Turn right onto Dufort Rd - 1.9 mi
7. Turn left toward Mirror Lake Rd - 0.1 mi
8. Continue onto Mirror Lake Rd - 213 ft
Mirror Lake Rd, Westmond, Idaho

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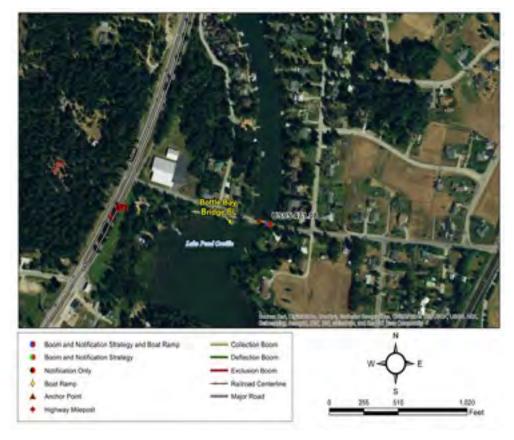
Looking southeast toward inlet.



View of parking area from boat ramp.

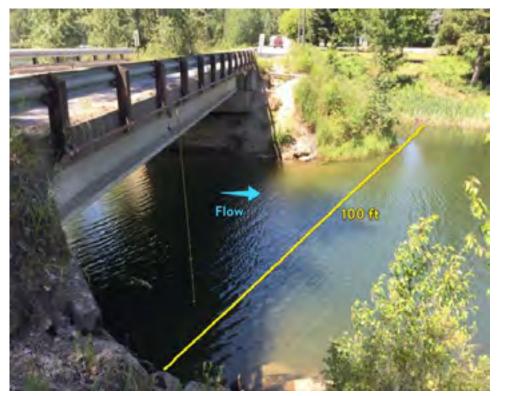
### **Bottle Bay Bridge**

Site Lat Long:	48.230107 -116.536618 (http://www.google.com/maps/place/48.230107,-116.536618)				
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Bottle Bay Bridge.				
Implementation:	River flow direction is to the north. Secure upstream end of boom River Right to steel post. Secure downstream end of boom River Left to steel post. Vacuum truck access is good.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	On site staging is small. Limited parking along road on narrow shoulder with adjacent gravel boat ramp. Boat ramp best suited for smaller sized boats and trailers. Gravel boat launch. Bottle Bay Bridge boat launch is 0.1 miles away.				
Field Notes:	<ul> <li>Boat ramp may require 4WD during periods of snow or rain.</li> <li>4WD Access: NO <ul> <li>Seasonal Access Only: NO <ul> <li>Locked Gate: NO</li> </ul> </li> </ul></li></ul>				
Resources Targeted:	Lake Pend Orielle, municipal water resources, fish habitat, wetlands, recreation				
Watercourse:	Gradient is low; substrate is mud; approx. width is 75 ft.; approx. depth is 5 to 10 feet; channelized; slow moving				



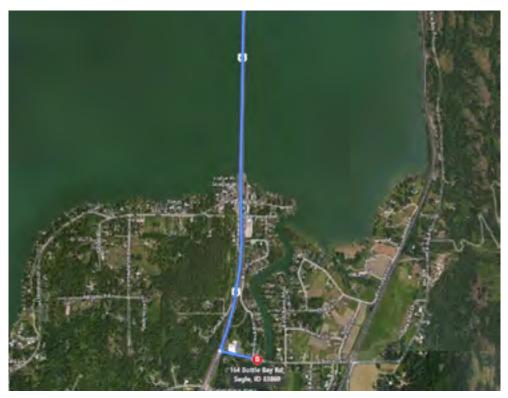
Suggested Equipment				
Quantity	Description			
100 ft.	Curtain Boom Tow Bridles			
As Appropriate				
150 ft.	Polypropylene Line			
6	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
None	In Water Anchors			
As Appropriate	PFD work vests/rubber boots			
As Appropriate	Throw bags, first aid kit			
Jet boat/raft need	led for strategy implementation? N			

Suggeste	Suggested Personnel					
Quantity	Quantity Title (Function)					
1	Booming Team Leader					
1	1 Safety Representative					
2 / 1	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)					
0 / 0	0/0 Haz-Mat Tech (Boat Operator) / Haz-Mat Feche (Sysift yeater)					



Nearest Cache: Sandpoint (4.0 miles) Second Cache: Bonners (36.3 miles)

### **Site-Specific Points of Contact**



Nearest Address: 200 Bottle Bay Rd Sagle ID 83860

### Site Access -

Sandpoint, Idaho 1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US-95 S - 2.5 mi

6. Turn left onto Bottle Bay Rd - 0.1 mi



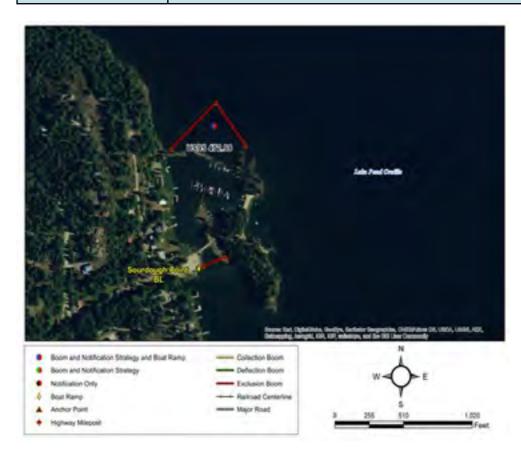
Collection site on north side of bridge.



Bridge and narrow shoulders for parking.

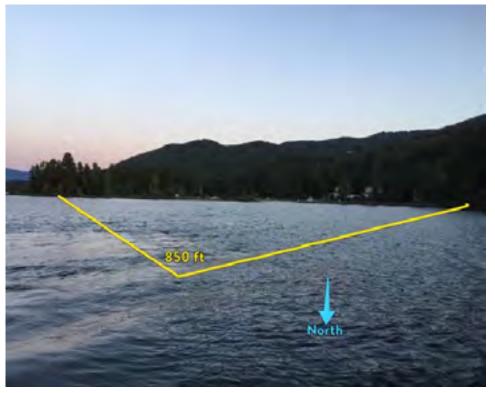
### Sourdough Point Water Intake

Site Lat Long:	48.258104 -116.468924 (http://www.google.com/maps/place/48.258104,-116.468924)				
Strategy Objective:	Notification and exclusion. Prevent contaminant from impacting sensitive area at Sourdough Point water intake.				
Implementation:	Secure upstream end of boom South Shoreline to steel post. Extend boom to the north and into the lake. Secure to a buoy and secure downstream end of boom to South Shoreline to steel post. Notify Sourdough Point water intake.				
Site Safety Note:	Complete Job Safety Analysis.				
Staging Area:	On site staging is large. Large private boat launch with big parking lot. Concrete boat launch. Sourdough Point boat launch is 0.3 miles away.				
Field Notes:	<ul> <li>Contact Water Treatment Operator: Robert Hanson 208-265-4270</li> <li>4WD Access: NO</li> <li>Seasonal Access Only: NO</li> <li>Locked Gate: NO</li> </ul>				
Resources Targeted:	Wildlife Habitat, Threatened and Endangered Species, Recreational Use, Reservoir or Lake				
Watercourse:	Lake Pend Oreille; substrate is mud; approx. depth is greater than 20 feet; slow moving; shoals				



Suggested Equipment				
Quantity	Description			
1200 ft.	Curtain Boom Tow Bridles			
As Appropriate				
1500 ft.	Polypropylene Line			
6	Steel Post Anchors			
As Appropriate	Post pounder, shovels, knife, wood saw			
1	In Water Anchors			
As Appropriate	PFD work vests/rubber boots			
As Appropriate	Throw bags, first aid kit			
Jet boat/raft need	led for strategy implementation? Y			

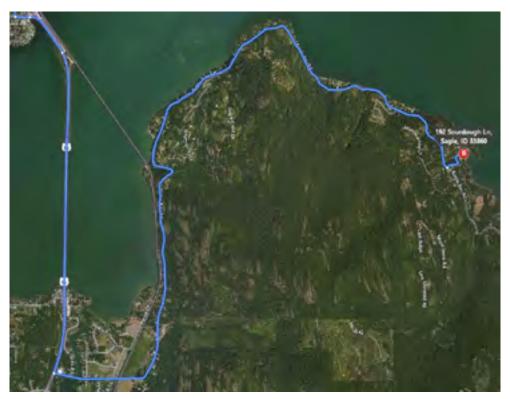
Suggested Personnel						
Quantity	Quantity Title (Function)					
1	Booming Team Leader					
1	1 Safety Representative					
3 / 0	Haz-Mat Tech (Field Worker) / 1st Responder (Traffic Flagger)					
1 / 1	1 / 1 Haz-Mat Tech (Boat Operator) / Haz-Mat Tegh (System)					



Nearest Cache: Sandpoint (10.3 miles) Second Cache: Bonners (42.7 miles)

### **Site-Specific Points of Contact**

Sourdough Point Water Intake (208) 265-4270



Nearest Address: 81 W Shoreline Ln Sagle ID 83860

### Site Access -

Sandpoint, Idaho
1. Head south on N Fifth Ave toward Cedar St - 0.2 mi
2. Turn left onto Pine St - 0.3 mi
3. Turn right onto S 1st Ave - 0.2 mi
4. Turn left onto E Superior St - 0.5 mi
5. Merge onto US - 95 S - 2.5 mi
6. Turn left onto Bottle Bay Rd - 6.2 mi
7. Turn left onto Sourdough Ln - 0.2 mi
Destination will be on the right

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Close-up on the Sourdough Point water intake, facing south.



Looking at the Sourdough Point water intake, facing southeast.

### Appendix C Oil Spill Scenario Time of Travel Analysis

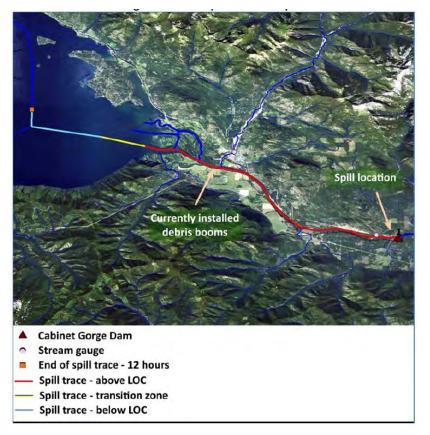
### Oil Spill Scenario Time of Travel Analysis – Clark Fork River at Cabinet Gorge Dam

This analysis employs the Incident Command Tool for Protecting Drinking Water (ICWater) to examine river travel time in the event of an oil spill on the Clark Fork River. Several scenarios were modeled to assess time of travel at different river discharge rates and oil spill volumes. All scenarios listed in Tables C-1 and C-2 begin with a spill located at 48.086 N and 116.058 W, just below Cabinet Gorge Dam (Figure C-1). A separate scenario involving a spill location further downstream is illustrated in Figure C-2 and discussed below.

Crude oil is a complex mixture of numerous petrochemical compounds, the proportions of which can vary widely. ICWater requires input of a specific chemical agent to model the transport of a pollutant spilled in a river. Since benzene is the primary compound of concern in Bakken crude, it was used as a proxy for bulk crude oil in these scenarios. The composition of Bakken crude narrowly ranges, so two different benzene contents were examined: 0.2 wt% (Table C-1) and 0.5 wt% (Table C-2). However, both of these are likely conservative values as the U.S. Environmental Protection Agency (EPA) recently reported benzene content of 0.14 wt% for a sample collected and analyzed in 2014. All scenarios assume a reported density of 6.79 pounds per gallon (42.5° API) for Bakken crude (EPA, 2014).

Reported travel times in the ICWater results indicate the amount of time it takes following the spill for benzene concentrations over the level of concern (0.005 milligrams per liter) to reach the distributary channels of the Clark Fork River Delta, near the currently installed debris booms (Figure C-1). In other words, travel times show how long before the dilute but harmful leading edge of the benzene plume will reach the delta.

Figure C-1 provides an example model output showing 12 hours of travel time following a 45,000-gallon spill of 0.2 wt% crude at 25,000 cfs. This scenario illustrates a spill that is similar in size to one that occurred near Mosier, Oregon, on June 3, 2016, at a discharge exemplary of moderate to high flow rates for the Clark Fork River.



#### Figure C-1: Example ICWater Model Output

Table C-1: Travel Times for Bakken Crude Oil Spill with 0.2 wt% Benzene

			Size of Spill (gallons)						
		30,000	45,000	100,000	300,000				
	75,000	1 hr 56 min	1 hr 33 min	1 hr 16 min	1 hr 4 min				
cfs)	50,000	2 hr 16 min	1 hr 58 min	1 hr 41 min	1 hr 26 min				
ge (	25,000	2 hr 41 min	2 hr 31 min	2 hr 16 min	2 hr 3 min				
har	10,000	3 hr 41 min	3 hr 33 min	3 hr 22 min	3 hr 8 min				
Discharge (cfs)	5,000	4 hr 44 min	4 hr 38 min	4 hr 27 min	4 hr 14 min				

			Size of Spill (gallons)						
		30,000	45,000	100,000	300,000				
	100,000	1 hr 7 min	< 1 hr	< 1 hr	< 1 hr				
	75,000	1 hr 21 min	1 hr 14 min	< 1 hr	< 1 hr				
cfs)	50,000	1 hr 47 min	1 hr 39 min	1 hr 29 min	1 hr 18 min				
Discharge (cfs)	25,000	2 hr 21 min	2 hr 14 min	2 hr 0 min	1 hr 54 min				
char	10,000	3 hr 26 min	3 hr 19 min	3 hr 11 min	3 hr 0 min				
Dise	5,000	4 hr 30 min	4 hr 26 min	4 hr 16 min	4 hr 5 min				

#### Table C-2: Travel times for Bakken crude oil spill with 0.5 wt% benzene

At several points along the Clark Fork River below Cabinet Gorge Dam, railroad tracks run within 90 ft or less of the river bank. One of these points is approximately 1.4 miles below the dam and 6 miles above the delta. In the event of a derailment and crude oil spill at this location, comparable in volume to the June 2016 spill in Mosier, Oregon, during a greater than commonly observed discharge of 25,000 cfs (~3.2 ft/sec), it would take approximately 2 to 3 hours for the leading edge of the spill to reach the delta. At a lower flow of 10,000 cfs (~2.5 ft/sec), leading edge travel time would be approximately 2 hours and 57 minutes (Figure C-2).

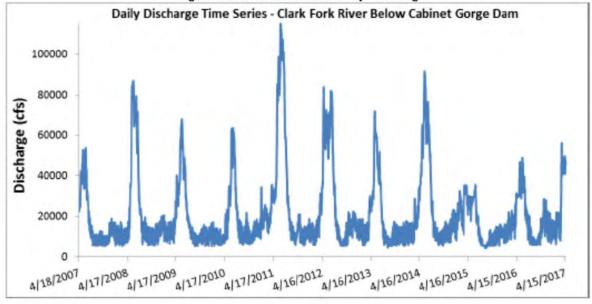
To compare flows used in ICWater model analyses scenarios with real historical flow values, Figure C-3 displays daily discharge for the last 10 years at the USGS/Avista Utilities stream gauge station downstream of the Cabinet Gorge Dam (location shown on Figure C-1), and Table C-3 displays monthly mean discharge for water years 1996–2016.

Figure C-3 Clark Fork River daily discharge recorded at the USGS/Avista Utilities stream gauge station located downstream from the Cabinet Gorge Dam. Location of the stream gauge relative to the dam is illustrated in Figure C-1.

**Clark Fork Delta** Cabinet Gorge Dam **Downstream spill location** 45,000 gallons of crude (0.2% benzene) Travel time to delta at 25,000 cfs - 2 hr Travel time to delta at 10,000 cfs - 2 hr 57 min

Figure C-2: Location of Possible OilSpill for Mode ling

Figure C-3: Clark Fork River Daily Discharge



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1995	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	12,290	21,370	34,250
1996	23,140	37,550	35,880	49,130	59,580	73,030	30,170	17,490	11,610	11,020	15,590	15,890
1997	19,530	19,170	24,080	37,410	93,000	96,050	34,910	19,080	13,440	13,200	18,670	17,480
1998	14,050	9,450	11,460	17,770	35,850	46,170	30,300	14,410	10,980	9,773	15,120	12,500
1999	13,060	11,370	16,550	22,660	38,320	60,140	30,450	14,330	9,828	9,194	17,250	19,740
2000	15,130	12,230	14,070	28,910	38,710	36,310	18,860	9,738	7,853	9,927	11,800	12,320
2001	10,990	6,156	6,916	8,844	26,990	23,630	11,890	7,046	5,818	6,334	7,065	8,779
2002	12,450	13,030	13,200	24,630	40,200	79,180	34,360	13,720	9,692	7,002	10,320	13,070
2003	7,309	11,810	13,080	26,770	38,440	44,670	16,160	8,585	6,101	6,254	12,200	12,530
2004	9,234	10,520	13,600	17,460	33,840	35,010	20,180	11,960	14,110	12,100	11,050	15,940
2005	13,280	12,320	8,114	15,840	38,970	45,880	19,550	10,680	6,443	11,140	12,710	12,200
2006	13,910	16,580	13,920	31,520	60,000	52,310	18,800	7,513	7,331	8,529	17,560	14,020
2007	13,740	12,790	21,650	27,480	42,310	35,850	15,100	8,334	8,397	8,498	7,973	14,340
2008	11,590	11,200	10,970	11,810	52,830	72,700	35,720	14,300	12,310	11,300	11,090	14,050
2009	14,720	12,790	12,960	22,390	43,990	48,170	20,150	11,250	8,402	10,010	11,420	10,250
2010	11,380	11,280	8,310	11,450	23,020	54,400	27,040	12,380	13,140	10,580	11,760	14,100
2011	17,330	20,680	18,360	30,270	63,820	101,100	63,090	19,030	10,820	13,460	12,420	11,850
2012	13,040	10,820	15,950	39,880	61,190	68,530	35,380	11,700	6,919	10,380	15,680	17,930
2013	13,870	13,430	12,520	25,010	52,340	42,930	18,580	8,633	7,052	11,300	10,830	10,510
2014	12,330	12,260	17,480	31,520	65,510	66,930	34,050	12,010	8,922	11,440	12,350	16,720
2015	18,070	25,770	26,700	30,080	27,570	25,380	10,220	5,550	7,125	7,706	10,900	11,900
2016	11,520	14,130	17,620	26,190	38,580	29,550	14,130	7,035	7,661	n.d.	n.d.	n.d.

### Table C-3: Clark Fork River Monthly Mean Discharge Values

### Appendix D Summary of Equipment Trailer Contents

Equipment	AVT	BNF1	BNF2	<b>BNF SNP</b>	RRT 1
Containment Boom (total length shown in ft)	1,716	3,800	1,000	1,000	1,000
BoomVan	0	1	0	1	0
Boom Deflectors	2	6	0	6	0
Absorbents					
Absorbent Track Pad Roll	0	1	0	1	1,000 pads
Oil Absorbent Boom Bale	0	5	0	5	
Oil Absorbent Pad Bale	0	5	0	5	
Sweep Boom; 5*	8	6	0	6	0
Skimmer, Hydraulic Powered	0	1	0	1	0
Skimmer, Shovel Head	0	1	0	1	0
Diesel Power Pack for Skimmer	0	1	0	1	0
2000-Watt Generator	1	1	0	1	0
Oil Compatible Collapsible Tank	0	1	0	1	0
Helicopter Cargo Net	0	2	0	2	0
Oil Spill PPE	No	Yes	No	Yes	No
River Safety PPE	No	Yes	No	Yes	No

Notes:

AVT:

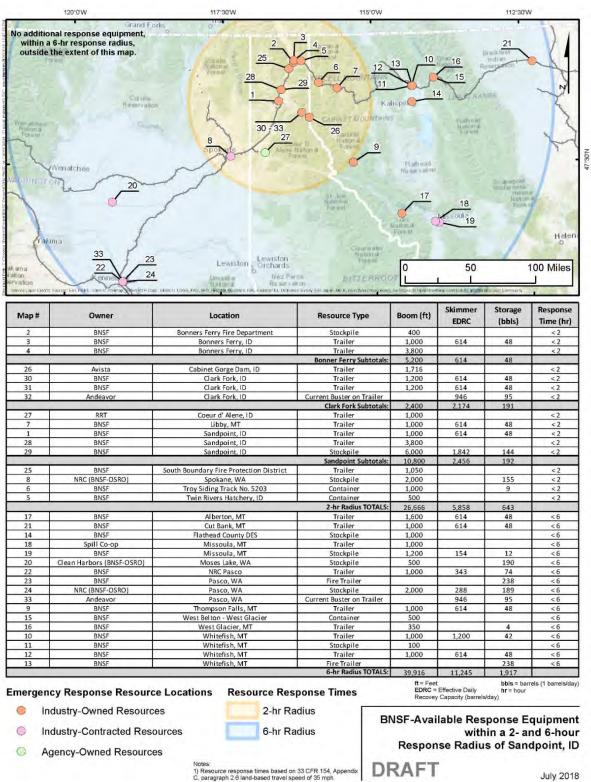
Avista 14-foot Enclosed Bumper Pull (Cabinet Gorge Dam).

BNF1: BNSF m2 24-Foot Enclosed Double Axel Bumper Pull (Bonners Ferry).

BNSF2: (supplements BNF1): BNSF M3 Enclosed double Axel Gooseneck (Bonners Ferry).

BNS SNP: BSNF M2 24-Foot Enclosed Double Axel Bumper Pull (Sandpoint).

RRT1: Idaho Office of Emergency Management Regional Response Team 1 (Coeur d'Alene).



### Appendix E High-Occupancy Facilities

The Lake Pend Oreille region has numerous high-occupancy facilities that are located very close to the rail lines and major highways. These facilities include schools, one hospital, several nursing homes, and several large employers. The table below lists the facilities with their primary contact phone number. The figures following show their location.

A nearby hazardous material spill may require prompt shelter-in-place warning or evacuation of these facilities.

The facilities on this list were included based on a subjective estimate of the number of people present. The list generally includes the following types of facilities:

- Public and private schools;
- Apartments;
- Dense mobile home and recreational vehicle parks with limited access;
- Hospitals;
- Nursing homes;
- Large hotels;
- Assisted-living facilities;
- Facilities that employ many people;
- Campground close to railroad tracks; and
- Parks that host large gatherings (e.g., Sandpoint Music Festival at War Memorial Field".

Churches and small parks were excluded from the list.

The following figures include several 05.-mile radius circles depicting approximate areas that may need evacuation in the event of a hazardous material train accident. The circles are centered on active rail lines. While the location of any accident cannot be predicted, these circles provide a general indication of the size of area needing evacuation.

The table below organizes the facilities geographically. Figures are provided following the tables areas with numerous high-occupancy facilities.

For more information, see the Bonner County Evacuation and Reception Plan, June 1, 2010, Bonner County Board of Commissioners, Bonner County Idaho.

Name	Address Facility Type		Phone	Map Figure
Community: Clark Fork			(Area Code 208)	
Clark Fork High School	121 E 4 <sup>th</sup> Ave, Clark Fork	School/High School	255-7177	
Lightning Creek Apartments	120 W 10 <sup>th</sup> Ave, Clark Fork	Living/Apartments		
Trunnell Enterprises RV Park	Hwy 200 from Sandpoint	Recreation/Campground		
Community: East Hope	· · ·	• • • • •		
Hope Elementary School	255 Hope School Rd., Hope	School/Elementary	264-5681	
Community: Trestle Creek				
Idaho Country Resort	Along Hwy 200	Recreation/Campground		
Jeb & Margaret's Trailer Haven	12 Miles E of Sandpoint	Recreation/Campground		
Trestle Creek RV Park	42303 Highway 200, Hope	Living/RV Park	264-5894	
Community: Kootenai				
Northside School	7881 Colburn-Culver Rd, Sandpoint	School/Elementary	263-2734	
Community: Ponderay				
Evacuation Circle D				
Beehive Hearthstone Village	402 W 3 Ave, Kootenai	Living/Assisted Living		D

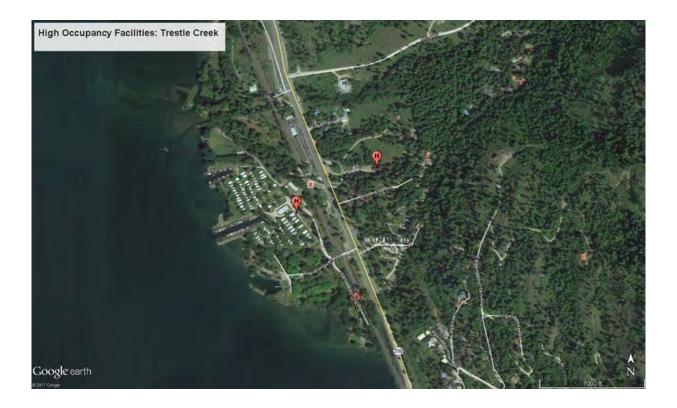
## Northwest Area Committee 2020

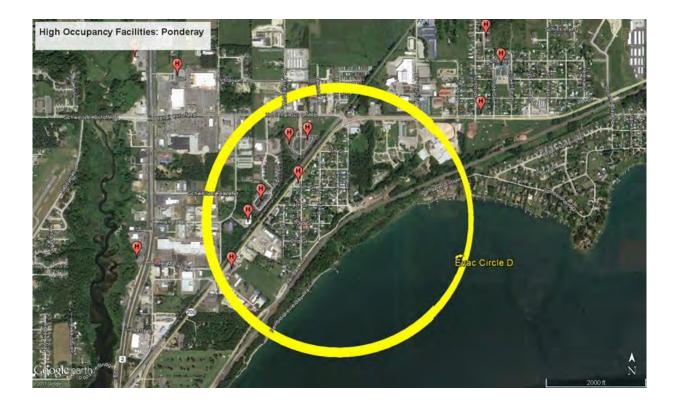
Name	Address	Facility Type	Phone	Map Figure
			(Area Code 208)	
Hotel Ruby	47725 Highway 95, Ponderay	Hotel	263-5383	D
Kootenai Elementary School	301 Sprague St, Kootenai	School/Elementary	255-4076	D
Lake Pend Oreille School Dist.	901 Triangle Dr. Ponderay	School	263-2184	D
Mountain View Village	550 Larkspur St, Ponderay	Living/Assisted Living		D
Mt. Baldy Apartments	835 Kootenai Cutoff Rd, Ponderay	Living/Apartment		D
Trinity Assisted Living	100 Humbird St, Sandpoint	Living/Assisted Living		D
Valentine Apartments	31138 Highway 200, Ponderay	Living/Apartment		D
Woodland Crossing Apartments	839 Kootenai Cutoff Rd, Ponderay	Living/Apartment		D
Hotel Ruby	477255 Highway 95 N, Ponderay	Hotel	263-5383	D
Community: Sandpoint				
Evacuation Circle A				
Alpine Vista Senior Apartments	1705 Pint St, Sandpoint	Living/Senior	265-4446	А
Bristlecone Apartments	1510 Pine St, Sandpoint	Living/Apartment		А
Forrest Bird Charter School	614 Madison Ave, Sandpoint	School/Charter		А
Northwood Terrace Apartments	307 Halley St, Sandpoint	Living/Apartment		А
Oak St Apartments	1509 Oak St, Sandpoint	Living/Apartment		Α
Pend Oreille Manor	1411 W Lake St, Sandpoint	Living/Apartment		Α
Pine Meadow Apartments	205 Halley St, Sandpoint	Living/Apartment		А
Ridley Village 1	950 Ridley Village Rd, Sandpoint	Living/Apartment		А
Ridley Village 2	1000 Ridley Village Rd, Sandpoint	Living/Apartment		А
Sandpoint High School	410 S Division Ave, Sandpoint	School/High School		А
Sandpoint Junior Academy	2255 Pine St, Sandpoint	School/Private	263-3584	А
Sandpoint Middle School	310 S Division Ave, Sandpoint	School/Junior High	265-4169	А
Sandpoint Villas Apartments	1602 Pine St, Sandpoint	Living/Apartment		А
Selkirk Ridge Apartments	117 S Lincoln Ave, Sandpoint	Living/Apartment		А
Travers Great Northern Park	2016 Park St, Sandpoint	Recreation/Park		А
Valley Vista Care Center	220 S Division Ave, Sandpoint	Living/Assisted Living	265-4514	А
Waldorf School	2007 Sandpoint West Dr, Sandpoint	School/Private	265-2683	А
Evacuation Circle B				
Bridge Assisted Living	1123 N Division Ave, Sandpoint	Living/Assisted Living	263-1524	В
Farmin Stidwell Elementary School	1626 S Spruce St, Sandpoint	School/Elementary		В
Huckleberry Apartments	1314 Huckleberry Ave, Sandpoint	Living/Apartment	255-5999	В
Lake Pend Oreille High School	1005 N Boyer Ave, Sandpoint	School/High School	263-6121	B and C
Litehouse Foods	1109 N Ella, Sandpoint	Manufacturing/Food	265-3700	В
Pend Oreille Village	910 N Division Ave, Sandpoint	Living/Apartment	-	В
Quest Aircraft Co	1200 Turbine Dr, Sandpoint	Manufacturing/Airplanes	263-1111	В
Skyline Apartments	1315 Hickory St, Sandpoint	Living/Apartment		В
Syringa Estates	1101 N Division Ave, Sandpoint	Living/Apartment		V
Evacuation Circle C				
Best Western Edgewater	56 Bridge St, Sandpoint	Hotel	263-3194	С
Bonner General Hospital	520 N 3 <sup>rd</sup> Ave, Sandpoint	Public Services/Hospital	263-1441	C
Courser Apartments	219 Church St, Sandpoint	Living/Apartment		C
Driftwood Apartments	720 N 3 <sup>rd</sup> Ave, Sandpoint	Living/Apartment		C
Farmin Park	312 Oak St, Sandpoint	Recreation/Park		C
Florence St Apartments	324 S Florence Ave, Sandpoint	Living/Apartment		C
Lake Pend Oreille High School	1005 N Boyer Ave, Sandpoint	School/High School	263-6121	B and C
LaQuinta	415 Cedar St, Sandpoint	Hotel	263-9581	C
Mountain Shadow Suites	320 N Boyer Ave, Sandpoint	Living/Condos		C
North Idaho College	12 S Euclid, Sandpoint	School/Post-Secondary	263-4594	C
Pedersen Apartments	302 Poplar St, Sandpoint	Living/Apartment		C

# Northwest Area Committee 2020

Quality inn         807 N 5 <sup>th</sup> Ave, Sandpoint         Hotel         263-2111         C           Sandpoint RV Park         Follow signs to the beach         Recreation/RV Park         -         C           Sandpoint RV Park         Follow signs to the beach         Recreation/RV Park         -         C           Superior Street Apartments         424 Sandpoint Ave, Sandpoint         Living/Apartment         -         C           Superior Street Apartments         620 Main St, Sandpoint         Living/Apartment         -         C           Wila Apartments         620 Main St, Sandpoint         Living/Apartment         -         C           Sandpoint Other High Occupancy Facilities         -         -         -         -           Cambridge Square Apartments         1205 Cedar St, Sandpoint         Living/Apartment         -         -           Lakeview Park         607 Stella Ave, Sandpoint         Living/Apartment         -         -           Lakeview Park         510 Olive Ace, Sandpoint         Living/Apartment         -         -           Sandpoint Kvergreen Assisted Uving         624 S Division Ave, Sandpoint         Living/Assited Uving         265-8524         -           Sandpoint Kvergreen Assisted Uving         624 S Division Ave, Sandpoint         Living/Assited Uving         26	Name	Address	Facility Type	Phone	Map Figure
Sandpoint City BeachFollow signs to the beachRecreation/Park-CSandpoint RV ParkFollow signs to the beachRecreation/RV Park-CSeasons Apartments424 Sandpoint Aux, SandpointLiving/Apartment-CSuperior Street Apartments620 Main St, SandpointLiving/Apartment-CVilla Apartments620 Main St, SandpointLiving/Apartment-CWashington Elementary430 S boyer Ave, SandpointSchool/Elementary263-4759CSandpoint. Other High Occupancy FAcilitiesCambridge Square Apartments1205 Cedar St, SandpointLiving/ApartmentHoliday Inn Express477326 Highway 95, PonderayHotel255-4500-Lakeview Park607 S Ella Ave, SandpointRecreation/ParkSandpoint Christian School4107 Samuelson Ave, SandpointLiving/ApartmentSandpoint Christian School477954 Highway 95, PonderaySchool/Priovate265-8624-Sandpoint Christian School4107 Samuelson Ave, SandpointLiving/Assited Living25:2354-War Memorial FieldSandpointRecreation/Community ParkCommunity: DoverNo high occupancy facilitiesCommunity: DoverSubit of Sagle RG, SagleSchool/Ricourapground				(Area Code 208)	
Sandpoint RV: Park     Follow signs to the beach     Recreation/RV Park     -     C       Seasons Apartments     424 Sandpoint Ave, Sandpoint     Living/Apartment     -     C       Supporto Street Apartments     620 Main SL, Sandpoint     Living/Apartment     -     C       Washington Elementary     430 S Boyer Ave, Sandpoint     Living/Apartment     -     C       Washington Elementary     430 S Boyer Ave, Sandpoint     Living/Apartment     -     C       Sandpoint: Other High Occupancy Facilities     -     -     -     -       Cambridge Square Apartments     1205 Cedar SL, Sandpoint     Living/Apartment     -     -       Holiday inn Express     4773254 Highway 95, Ponderay     Hotel     255-4500     -       Luther Park     510 Olive Ace, Sandpoint     Living/Assisted Living     265-3557     -       Ponderosa Apartments     4107 Samuelson Ave, Sandpoint     Living/Assisted Living     265-3557     -       Sandpoint Evergreen Assisted Living     265-4500     265-3524     -     -       Sandpoint Evergreen Assisted Living     265-3510     -     -     -       Sandpoint Evergreen Assisted Living     265-3524     -     -     -       Sochweitzer Rach Senior     4107 Samuelson Ave, Sandpoint     Living/Assited Living     265-3254     <	. ,	, ,			
Seasons Apartments       424 Sandpoint       Living/Apartment       -       C         Superior Street Apartments       302 S 2 <sup>m4</sup> Ave, Sandpoint       Living/Apartment       -       C         Washington Elementary       430 S Boyer Ave, Sandpoint       Living/Apartment       -       C         Washington Elementary       430 S Boyer Ave, Sandpoint       School/Elementary       263-4759       C         Sandpoint: Other High Occupancy PacIIIIEs       C       C       -       -         Cambridge Square Apartments       1205 Cedar St, Sandpoint       Living/Apartment       -       -         Holiday Inn Express       607 S Ella Ave, Sandpoint       Living/Apartment       -       -         Lakeview Park       610 Olive Ace, Sandpoint       Living/Apartment       -       -         Sandpoint Christian School       477954 Highway 95, Ponderay       School/Private       265-8557       -         Sandpoint Evergren Assisted Living       624 S Division Ave, Sandpoint       Living/Apartment       -       -         Sandpoint Evergren Assisted Living       624 S Division Ave, Sandpoint       Living/Assited Living       263-2354       -         Schourple Terren Assited Living       Sandpoint Ave, Sandpoint       Living/Assited Living       263-2757       -         Comm	· /				-
Superior Street Apartments       302 5 2 <sup>nd</sup> Ave, Sandpoint       Living/Apartment       -       C         Wila Apartments       620 Main St, Sandpoint       Living/Apartment       -       C         Washington Elementary       430 5 Boyer Ave, Sandpoint       School/Elementary       263-4759       C         Sandpoint: Other High Occupancy Facilities       263-4759       C       C         Cambridge Square Apartments       1205 Cedar St, Sandpoint       Living/Apartment       -       -         Holiday Inn Express       477326 Highway 95, Ponderay       Hotel       255-4500       -         Lakeview Park       607 S Ella Ave, Sandpoint       Living/Apartment       -       -         Ponderosa Apartments       4107 Samuelson Ave, Sandpoint       Living/Apartment       -       -         Sandpoint Evergreen Assisted Living       624 5 Division Ave, Sandpoint       Living/Apartment       -       -         War Memorial Field       Sandpoint       Recreation/Community Park       -       -       -         No high occupancy facilities	Sandpoint RV Park	Follow signs to the beach	Recreation/RV Park		-
Wila Apartments       620 Main St, Sandpoint       Living/Apartment       -       C         Washington Elementary       430 S Boyer Ave, Sandpoint       School/Elementary       263-4759       C         Sandpoint: Other High Occupancy Facilities       -       -       -       -         Cambridge Square Apartments       1205 Cedar St, Sandpoint       Living/Apartment       -       -         Lakeview Park       607 S Ella Ave, Sandpoint       Recreation/Park       -       -         Luther Park       510 Olive Ace, Sandpoint       Living/Apartment       -       -         Sandpoint Christian School       477954 Highway 95, Ponderay       School/Prilvate       265-8624       -         Sandpoint Evergreen Assisted Living       624 S Division Ave, Sandpoint       Living/Apartment       -       -         Schweitzer Ranch Senior       4107 Samuelson Ave, Sandpoint       Living/Assited Living       265-8624       -         War Memorial Field       Sandpoint Recreation/Community Park       -       -       -       -         Community: Dover       - <td>Seasons Apartments</td> <td>424 Sandpoint Ave, Sandpoint</td> <td>Living/Apartment</td> <td></td> <td>С</td>	Seasons Apartments	424 Sandpoint Ave, Sandpoint	Living/Apartment		С
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House of the Lord 754 Silver Birch Lane, Oldtown School/Private 437-2184			,		











### Appendix F Boat Ramps and Marinas

# NorthwestArea Committee 2020

Sector	Site ID	Site Name (See Note 1)	Usable at Low Pool Water Level? a	Latitude/Longitude	General Suitability at Full Pool (See Note 2)	Gravel or Concrete Boat Ramp	Field Notes
1A	US2 0.37	Oldtown Boat Ramp	Yes	48.185348 -117.032438	1	Concrete	Good floating dock.
1A	None	Albeni Falls Dam	Uncertain	48.179392 -116.996120	1	Concrete	No dock. Use dependent on river flows.
1A	US2 2.21	Albeni Cove Boat Ramp	No	48.176539 -116.997049	1	Concrete	Generally usable from mid-June to the end of September. Availability dependent on river flows as well as lake elevation. Access gate closed at night during open period. Closed to vehicle access during off-season. Contact USACE Albeni Falls Dam (see contact sheet at beginning of this document.
18	US2 6.38	Priest River City Boat Ramp	Yes	48.176933 -116.904242	1	Concrete	Usability confirmed at lake elevation 2,054 feet. Massive concrete and rock ballasts protect boat ramp from stream flows. High quality floating docks. Auto access is confusing—must parallel railroad tracks on Railroad Ave which is a poorly maintained road.
1B	US2 6.87	Priest River Mouth Boat Ramp also known as "The Mud Hole"	No	48.177921 -116.89271	2	Concrete	Ramp usable mid-June to end of September. Launchable elevation is 2,058 feet. Swift current on Priest River during high water flows may pose a hazard. Site may be gated at night.
2A	US2 13.38	Willow Bay Resort Boat Ramp (Marina)	No	48.152507 -116.76856	2	Concrete	Fuel available. Phone 208-265-8854
2A	US2 13.49	Riley Creek Boat Ramp	No	48.158966	2	Concrete	Usable mid-June to end of September. USACE reports launchable at lake elevation 2,058 feet. Gate closed at night during open season; closed to vehicle access during off-season.
2A	US2 14.37	Laclede Ferry Boat Ramp	Yes	48.161332 -116.754025	1	Concrete	Ramps usable mid-June to end of September. Ramp observed usable at lake elevation 2,054 feet, but docks were unusable at this elevation.

# NorthwestArea Committee 2020

Sector	Site ID	Site Name (See Note 1)	Usable at Low Pool Water Level? a	Latitude/Longitude	General Suitability at Full Pool (See Note 2)	Gravel or Concrete Boat Ramp	Field Notes
2A	US2 16.29	Morton Slough Boat Ramp	No	48.180695 -116.714602	1	Concrete	Usable mid-June to end of September. USACE reports launchable elevation is 2,059 feet. Gate closed at nigh during open season; closed to vehicle access during off-season.
2B	US2 25.15	Dover Marina Boat Ramp	No	48.244936 -116.614668	1	Concrete	Usable mid-June to end of September. Contact Dover Bay at 208-263-3083. Fuel available.
2B	US95 470.21	Springy Point Boat Ramp	No	48.236959 -116.586229	2	Concrete	Usable mid-June to end of September. USACE reports launchable elevation is 2,059 feet. Gate closed at night during open season; closed to vehicle access during off-season.
3	US95 473.87	Sandpoint City Beach Boat Ramp (Sandpoint Marina Windbag Marine)	No	48.271857 -116.541449	1	Concrete	West boat ramp was observed to be usable at 2,054 feet, but east ramp was unusable. Shallow water just offshore may require jet boats or mud buddy props rather than prop-driven boats. Marinas have no fuel for servicing facilities – only boat parking.
4A/5	SR200 41.38	Hawkin's Point Ramp	No	48.282777 -116.378872	1	Gravel	Usable mid-June to end of September. Launchable at lake elevation 2,065 feet.
5	SR200 42.59	Trestle Creek Boat Ramp	No	48.276717 -116.347099	2	Concrete	Usable mid-June to end of September. Launchable at lake elevation 2,054 feet, but the dock is unusable. Caution: Sharp rock ballast on each side of ramp. Wind from the south often makes this launch site very hazardous.
5	SR200 44.98	Hope Boat Basin Boat Ramp	Yes	48.250419 -116.315243	1	Concrete	Good access even in low water. Managed by Bonner County. This ramp is suitable for very large vessels even in low water.
5	SR200 46.25	Pringle Marina Boat Ramp	No	48.239177 -116.29388	2	Concrete and gravel	Usable at lake elevation 2,054 feet, but unusable at low pool elevation. More protection offered here than at Trestle Creek, but wind can make this launch site hazardous.

# NorthwestArea Committee 2020

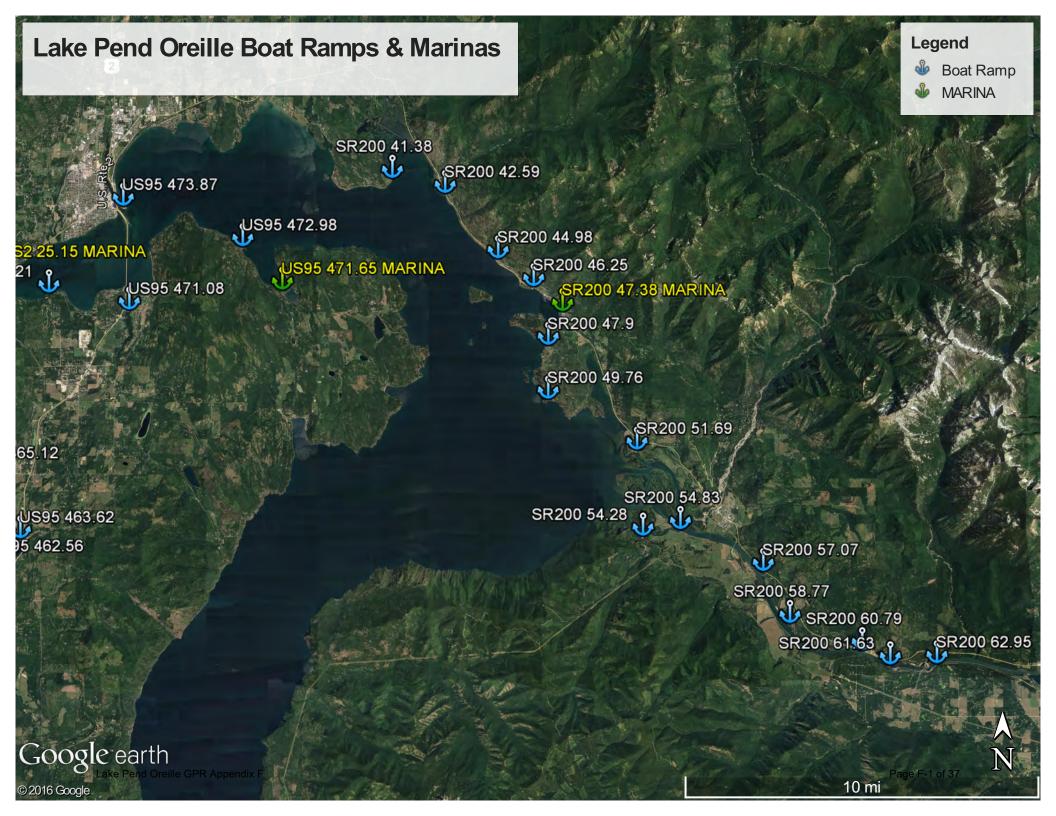
Sector	Site ID	Site Name (See Note 1)	Usable at Low Pool Water Level? a	Latitude/Longitude	General Suitability at Full Pool (See Note 2)	Gravel or Concrete Boat Ramp	Field Notes
5	SR200 47.38	Hope Marina Boat Ramp	No	48.229128 -116.276511	1	Concrete	Unusable below lake elevation 2,058 feet. Marina. Fuel available.
5	SR200 47.9	Beyond Hope Resort Boat Ramp	No	48.215623 -116.285212	2	Concrete	
5	SR200 49.76	Island View Boat Ramp	Unlikely	48.193974 -116.285392	2	Concrete	Private ramp. Small breakwater area to shelter boat parking.
6	SR200 51.69	Clark Fork River Drift Yard Boat Ramp	Yes	48.173532 -116.231974	1	Concrete	Ramp observed usable at lake elevation 2,054 feet; however, dock is unusable. Channel flowing by the launch site may be very shallow at this elevation requiring jet boats or mud buddies. Closed from March 1 through June 15 for waterflow nesting.
6	SR200 54.28	Johnson Creek Boat Ramp	No	48.138974 -116.228631	2	Concrete	Usable at lake elevation 2,054 feet but the creek channel away from the launch may be unpassable at this lake elevation. Very narrow boat ramps. No cell phone service in this area.
6	SR200 54.83	Derr Island Boat Ramp	No	48.141516 -116.206072	3	Gravel	Very rudimentary at intersection of Derr Island Road and Johnson Creek Road. Not usable at low water. Appears to be public land.
6	SR200 57.07	Pint Lane Boat Ramp	No	48.124568 -116.156401	3	Concrete ramp with thick dirt and gravel	Private land.
6	SR200 58.77	Private Boat Ramp	No	483.103583 -116.140426	2	Concrete and gravel	No dock. Use dependent on river flows. Private land.
6	SR200 60.79	Clark Fork River Access Boat Ramp	No	48.092555 -116.097287	3	Concrete	No docks. Use dependent on river flows. Private land.
6	SR200 61.63	Cabinet Gorge Fish Hatchery Boat Ramp	No	48.086706 -116.08024	3	Gravel	No dock. Use dependent on river flows.
6	SR200	Cabinet Gorge	Yes	48.087107	3	Gravel	Access controlled by Avista 406-847-1280. Usability

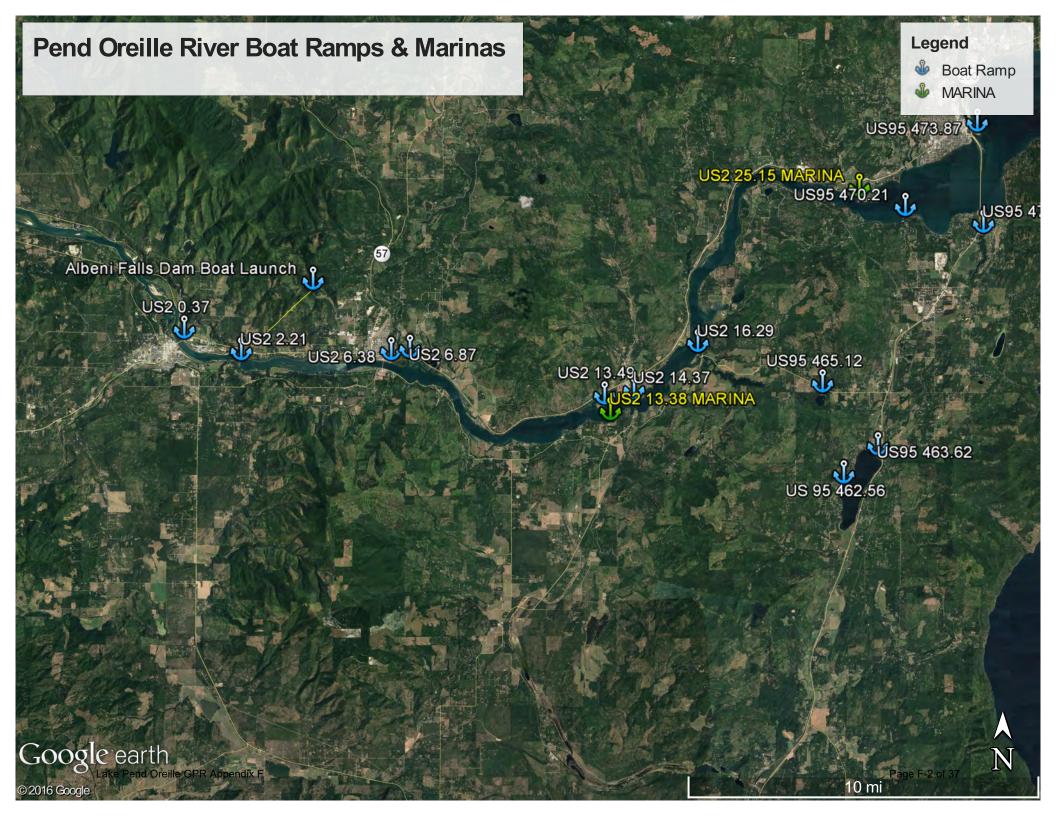
## NorthwestAreaCommittee 2020

Sector	Site ID	Site Name (See Note 1)	Usable at Low Pool Water Level? a	Latitude/Longitude	General Suitability at Full Pool (See Note 2)	Gravel or Concrete Boat Ramp	Field Notes
	62.95	Dam Upstream Boat Ramp		-116.052317			dependent upon reservoir level.
7A	US95 462.56	Sandy Beach Boat Ramp (Lake Cocolalla)	NA	18.126724 -116.624359	3	Gravel	Not maintained in winder. Very rough access.
7A	US95 463.62	Lake Cocolalla Boat Ramp	NA	48.138325 -116.60323	1	Concrete	Very good dock and ramp.
7B	US95 471.65	Bottle Bay Marina Boat Ramp	No	48.238042 -116.445367	2	Concrete	Access to boat ramp is down steep narrow road with little turn-around room. Fuel available.
7B	US95 472.98	Sourdough Point Boat Ramp	No	48.255446 -116.469042	2	Concrete	Contact Water Treatment Operation Robert Hanson 208-265-4270. This ramp goes dry early in fall. Small shallow marina has no fuel or service facilities; only boat parking. Private land.
Other	SR54 14.65	Eagle Boat Ramp Farragut State Park	Yes	47.965026 -1116.545805	1	Concrete	This is one of the best boat ramps on the lake, but it is at the southern end of the lake and a long distance from areaslikely to be impacted by hazardous material spills.
Other	SR54 15.57	Bayview Boat Ramp (Marina)	Yes	47.980766 -116.558464	1	Concrete	The boat launch by itself does not have much of a staging area, but there are plenty of adjacent lots and parking areas. Fuel available at boat ramp and at the nearby MacDonald's Hudson Bay Resort.
		War Memorial	No	48.264248 -116.558066	1	Concrete	Good staging area. Photograph no included in subsequent pages.

#### General Notes:

- 1. Highlighted rows indicate the marinas which have fuel service available.
- 2. Suitability condition: 1=Suitable for large boats such as Sheriff's department or rescue boats; 2=Suitable for small boats such as water ski boats; 3=Suitable only for small fishing skiffs, canoe launches, or row boats.
- 3. All ramps have slip, trip, fall hazards, traffic/roadway hazards, congestion, water hazards, and hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Most boat rams are unusable form mid-October through mid-May due to low water levels.

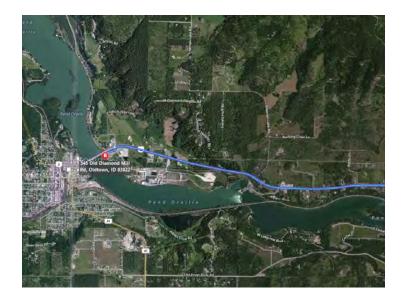




Oldtown Boat	Ramp US2 0.37
Site Lat Long:	48.185348 -117.032438 (http://www.google.com/maps/place/48.185348,-117.032438)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large parking area for vehicles and equipment adjacent to boat ramp. Concrete boat ramp.
Field Notes:	Large staging area. Ramp may not be usable in winter

1. Head south on N Fifth Ave toward Cedar St. - 0.2 mi 2. Turn right onto US 2 W/Pine St - 27.8 mi 3. Turn left at Selkirk Way - 151 ft 4. Turn right onto Old Diamond Mill Rd - 0.3 mi

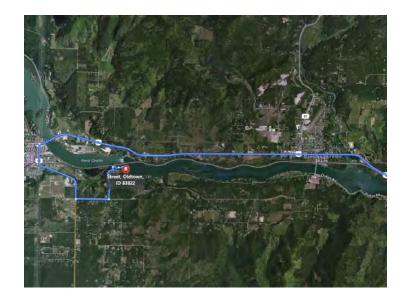




Albeni Cove Bo	at Ramp US2 2.21
Site Lat Long:	48.176539 -116.997049 (http://www.google.com/maps/place/48.176539,-116.997049)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large paved parking area for vehicles and equipment adjacent to boat ramp. Onsite boat ramp. Concrete boat ramp.
Field Notes:	Restricted access. Recreation area gate locked from 2200-0700. Sheriff Deputies and Campground Host have keys. Ramp may not be usable in winterRamp is generally usable from mid-June to the end of September. Launcable water elevation is 2055 ft. Availability dependant on river flows as well as elevation. Kept closed if flows at dam are greater than 40 cfs. Access gate closed at night furing

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn right onto US-2 W/Pine St - 22.2 mi 3. Turn left onto Wisconsin St - 0.4 mi 4. Turn right onto Old Priest River Rd - 5.0 mi 5. Turn right onto Blackthorne Rd - 0.8 mi 6. Turn left to stay on Blackthorne Rd - 459 ft 7. Continue straight onto Albeni Cove Rd - 0.3 mi 8. Sharp left - 161 ft 9. Albeni Cove Recreation Area





Priest River Cit	y Boat Ramp US2 6.38
Site Lat Long:	48.176933 -116.904242 (http://www.google.com/maps/place/48.176933,-116.904242)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large city park with large parking area and turnaround. Concrete boat ramp.
Field Notes:	Large staging area. Ramp may not be usable in winter

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn right onto US-2 W/Pine St - 22.2 mi 3. Turn left onto Wisconsin St - 0.2 mi 4. Turn left onto Railroad Ave - 394 ft 5. Railroad Avenue, Priest River, Idaho





Priest River Mo	outh Boat Ramp US2 6.87
Site Lat Long:	<u>48.177921, -116.892</u> 71 (http://www.google.com/maps/place/48.177921, -116.89271)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete parking lot, boat ramp, and grass field Concrete boat ramp.
Field Notes:	Large staging area. Ramp may not be usable in winter. Ramp usable mid June to End of September. Launchable elevation is 2058 ft. Need to verify if this area is gated at night.

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn right onto US-2 W/Pine St - 22.2 mi 3. In the town of Priest River, ID, Turn left onto Wisconsin St- 0.2 mi 4. Turn left onto Railroad Ave 5. Priest River Park

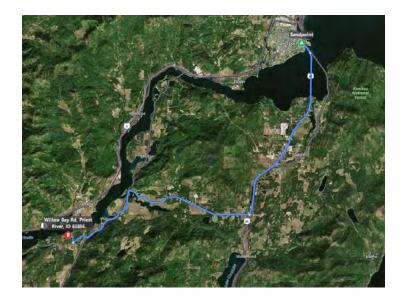




Willow Bay Res	sort Boat Ramp US2 13.38
Site Lat Long:	48.152507 -116.76856 (http://www.google.com/maps/place/48.152507,-116.76856)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete Boat Ramp. \$10 launch fee. Contact Resort office at 208-265-8854 Concrete boat ramp.
Field Notes:	Ramp may not be usable in winter

Directions to Site 1. Take US-95 S for 8.0 mi 2. Turn right onto Dufort Rd- 9.5 mi 3. Turn right onto Willow Bay Rd and continue to destination





Riley Creek Boa	ut Ramp US2 13.49
Site Lat Long:	48.158966 -116.772205 (http://www.google.com/maps/place/48.158966,-116.772205)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large asphalt parking lot with large staging area. Concrete boat ramp.
Field Notes:	Usable mid-June to End of Sept. Launcahable elevation is 2058. Gate closed at night during open season; closed to vehicle access during off-season.

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn right onto US-2 W/Pine St - 13.8 mi 3. Turn left onto Riley Creek Rd - 0.4 mi 4. Turn right onto Riley Creek Park Rd - 1.0 mi 5. Riley Creek Recreation Area, Laclede, Idaho

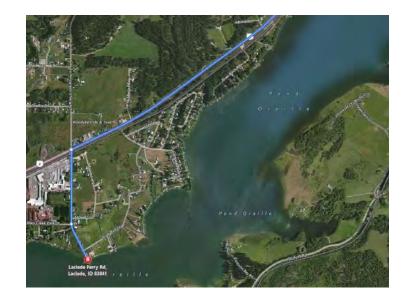




Laclede Ferry B	oat Ramp US2 14.37
Site Lat Long:	48.161332 -116.754025 (http://www.google.com/maps/place/48.161332,-116.754025)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete with a gravel parking lot Concrete boat ramp.
Field Notes:	Ramp may not be usable in winter

1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi 2. Turn right onto US-2 W/Pine St - 13. 8 mi 3. Turn left onto Riley Creek Rd - 0.4 mi 4. Continue onto Laclede Ferry Rd - 0.2 mi 5. Laclede Ferry Road, Laclede, Idaho

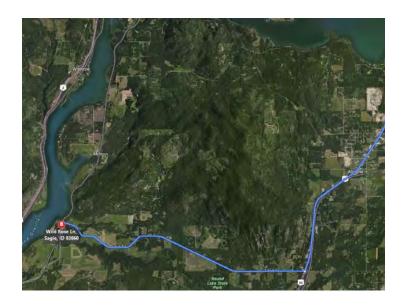




Morton Slough Boat Ramp US2 16.	
Site Lat Long:	48.180695 -116.714602 (http://www.google.com/maps/place/48.180695,-116.714602)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large parking area for vehicles and equipment adjacent to boat ramp. Concrete boat ramp.
Field Notes:	Usable mid-June to End of Sept. Launcahable elevation is 2059. Gate closed at night during open season; closed to vehicle access during off-season.

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn eft onto E Superior St - 0.5 mi 5. Merge onto US-95 S - 8.0 mi 6. Turn right onto Dufort Rd - 5.7 mi 7. Turn right onto Lakeshore Dr - 52 ft 8. Turn left onto Wild Rose Ln - 194 ft 9. Wild Rose Lane, Sagle, Idaho

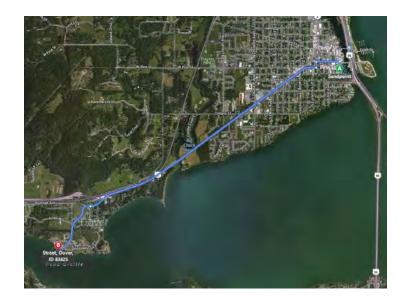




Dover Marina Boat Ramp US2 25	
Site Lat Long:	48.244936 -116.614668 (http://www.google.com/maps/place/48.244936,-116.614668)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete boat ramp.
Field Notes:	Contact Jenny Hickson with Dover bay at 208-263-3083. Ramp may not be usable in winter

1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi 2. Turn right onto US-2 W/Pine St - 2.7 mi 3. Turn left onto Old Hwy U.S. 2 - 0.2 mi 4. Continue onto Dover Bay Blvd - 0.3 mi 5. Continue onto Dover Bay Pkwy - 0.2 mi 6. Turn right onto Lakeshore Avenue - 495 ft 6. 639 Lakeshore Avenue, Dover, Idaho

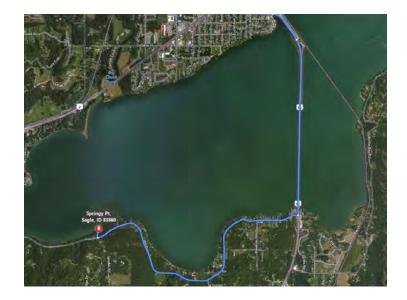




Springy Point Boat Ramp US95 470.2	
Site Lat Long:	48.236959 -116.586229 (http://www.google.com/maps/place/48.236959,-116.586229)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	A large boat ramp and dock with plenty of turn around room. A large day use parking lot is a little ways down from the boat launch. Concrete boat ramp.
Field Notes:	Usable mid-June to End of Sept. Launcahable elevation is 2059. Gate closed at night during open season; closed to vehicle access during off-season.

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US-95 S - 1.9 mi 6. Turn right onto Lakeshore Dr - 3.1 mi 7. Turn right onto Springy Point 8. 292 ft Springy Point, Sagle, Idaho





Sandpoint City Beach Boat Ramp US95 473	
Site Lat Long:	48.271857 -116.541449 (http://www.google.com/maps/place/48.271857,-116.541449)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	2 concrete boat ramps adjacent to large parking and staging area. Concrete boat ramp.
Field Notes:	Sanpoint City beach BL. Ramp may not be usable in winter

1. Head south on N Fifth Ave toward Cedar St - 171 ft 2. Turn left onto Pine St 0.3 mi 3. Pine St turns left and becomes N First Ave 246 ft 4. Turn right onto Bridge St 0.2 mi 5. Turn right

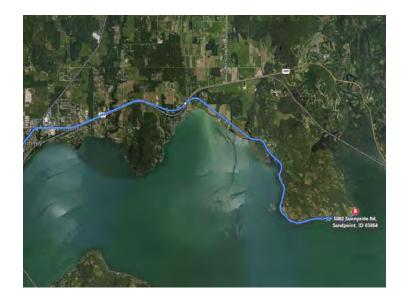




Hawkin's Point Boat Ramp SR200 41.	
Site Lat Long:	48.282777 -116.378872 (http://www.google.com/maps/place/48.282777,-116.378872)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Gravel ramp with adequate parking. Idaho Fish & Game site. Concrete dock with no cleats or other tie-off points. Gravel boat ramp.
Field Notes:	Medium sized staging area. Usable in mid-June to end of sept. Launchable elevation is 2056 ft.

1. Continue onto ID-200 for 6.4 mi 2. Turn right onto Sunnyside Cut Off Rd for 1.2 mi 3. Turn left onto Sunnyside Rd for 2.1 mi 4. Slight right to stay on Sunnyside Rd 5. Destinations will be on the right





Trestle Creek Boat Ramp SR200 42.	
Site Lat Long:	48.276717 -116.347099 (http://www.google.com/maps/place/48.276717,-116.347099)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete ramp with large parking area. Likely unusable during winter months when lake is low. Concrete boat ramp.
Field Notes:	Usable in mid-June to end of sept. Launchable elevation is 2054 ft

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 17.5 mi 3. Trestle Creek Boat Launch





Hope Boat Basin Boat Ramp SR200 44	
Site Lat Long:	48.250419 -116.315243 (http://www.google.com/maps/place/48.250419,-116.315243)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete ramp. Concrete boat ramp.
Field Notes:	Good access even in low water. Managed by Bonner County. Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 14.8 mi 3. Turn left onto W Main St - 0.8 mi 4. Continue onto Lake - 249 ft 5. Turn left onto E Main St - 7 ft 6. 199 East Main Street, Hope, Idaho





Pringle Park Boat Ramp SR200 4	
Site Lat Long:	48.239177 -116.29388 (http://www.google.com/maps/place/48.239177,-116.29388)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete and gravel boat ramps. Concrete boat ramp.
Field Notes:	Site likely not usable during winter when lake is low. Managed by ID Fish and Game. Ramp may not be usable in winter.

Directions to Site 1. Take ID-200 for 16.4 mi 2. Destination will be on the right as one passes through East Hope





Hope Marina Boat Ramp SR200 47.3	
Site Lat Long:	48.229128 -116.276511 (http://www.google.com/maps/place/48.229128,-116.276511)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete ramp near Floating Restaurant. Contact 208-264-5106. Likely not usable during winter when lake is low. Concrete boat ramp.
Field Notes:	Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 17.5 mi 3. Hope Marina BL, Hope, Idaho





Beyond Hope Resort Boat Ramp SR200	
Site Lat Long:	48.215623 -116.285212 (http://www.google.com/maps/place/48.215623,-116.285212)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete. Concrete boat ramp.
Field Notes:	Possibility that the ramp could be too shallow during winter months. Mooring fee charged for marina use. Contact 208-264-5251 for resort marina staff. Likely not usable during winter when lake is low. Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 18.3 mi 3. Turn right onto Hope Peninsula Rd/NF-1002/Peninsula Rd - 0.8 mi 4. Turn left onto Hope Peninsula Rd/Peninsula Rd - 0.6 mi 1243 Peninsula Road, Hope, Idaho

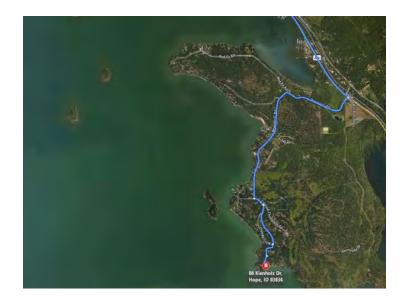




Island View Boat Ramp SR200 49.7	
Site Lat Long:	48.193974 -116.285392 (http://www.google.com/maps/place/48.193974,-116.285392)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	A large paved boat launch, though no visible parking. Looked like it was an extension to a private drive way. Concrete boat ramp.
Field Notes:	Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 18.3 mi 3. Turn right onto Hope Peninsula Rd/NF-1002/Peninsula Rd - 0.8 mi 4. Turn left onto Hope Peninsula Rd/Peninsula Rd - 1.3 mi 5. Turn left onto E David Thompson Rd - 0.1 mi 6. Turn right onto Osprey Cir - 0.5 mi 7. Slight left onto Kienholz Dr - 266 ft 8. Kienholz Drive, Hope, Idaho





Clark Fork Rive	r Driftyard Boat Ramp SR200 51.69
Site Lat Long:	48.173532 -116.231974 (http://www.google.com/maps/place/48.173532,-116.231974)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Year-round concrete ramp. Large parking area for vehicles and equipment adjacent to ramp. Concrete boat ramp.
Field Notes:	Concrete ramp. Large parking area for vehicles and equipment adjacent to ramp. Ramp usable at 2058 ft. Access closed during goose nexting season.

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 2.7 mi 3. Turn right onto Kootenai Bay Rd - 387 ft 4. Turn left onto Whiskey Jack Rd - 0.8 mi





Johnson Creek	Johnson Creek Boat Ramp SR200 54.	
Site Lat Long:	48.138974 -116.228631 (http://www.google.com/maps/place/48.138974,-116.228631)	
Strategy Objective:	Boat Launch. Access only.	
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis	
Staging Area:	Twin boat launches parallel each other, both launches are rather narrow, so larger boats and trailers may be a tight squeeze. Boat launch is accompanied by a large parking and staging area. Concrete boat ramp.	
Field Notes:	Twin boat launches parallel each other, both launches are rather narrow, so larger boats and trailers may be a tight squeeze. Boat launch is accompanied by a large parking and staging area. Concrete boat ramp. Launchable elevation is 2054 ft.	

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 25.4 mi 3. Turn right onto Stephen St - 0.3 mi 4. Turn left onto S River Rd - 0.7 mi 5. Continue onto Johnson Creek Rd - 295 ft 6. Turn right to stay on Johnson Creek Rd - 9.5 mi 7. Turn right onto Johnson Creek Rd/NF-278 - 5.0 mi 8. Turn left to stay on Johnson Creek Rd/NF-278 - 3.4 mi 9. Johnson Creek Boat Launch





Derr Island Boa	Derr Island Boat Ramp SR200 54.83	
Site Lat Long:	48.141516 -116.206072 (http://www.google.com/maps/place/48.141516,-116.206072)	
Strategy Objective:	Boat Launch. Access only.	
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis	
Staging Area:	A gravel boat launch off of a county road. There is extremely limited parking. Gravel boat ramp.	
Field Notes:	This looks to be a public boat launch, and differs from the Derr Island Private BL. If it is private it is owned by the Delta Shore Estates. Ramp may not be usable in winter	

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 25.4 mi

3. Turn right onto Stephen St - 0.3 mi 4. Turn left onto S River Rd - 0.7 mi 5. Continue onto Johnson Creek Rd - 295 ft 6. Turn right to stay on Johnson Creek Rd - 1.6 mi 7. Turn right onto Apple Grove Ln - 0.2 mi 8. Continue straight onto Derr Island Rd - 0.3 mi





Pint Lane Boat	Ramp SR200 57.07
Site Lat Long:	48.124568 -116.156401 (http://www.google.com/maps/place/48.124568,-116.156401)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete with thick dirt on it. Concrete boat ramp.
Field Notes:	Locked Gate. Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 25.5 mi 3. 57209 Idaho 200





Private Boat Ra	sR200 58.77
Site Lat Long:	48.103583 -116.140426 (http://www.google.com/maps/place/48.103583,-116.140426)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Gravel/concrete Concrete boat ramp.
Field Notes:	Private contact Royce Anderson (208) 266-1177. Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 28.7 mi 3. Turn right when possible for river access 4. Private Boat Launch





Clark Fork River Access Boat Ramp SR200	
Site Lat Long:	48.092555 -116.097287 (http://www.google.com/maps/place/48.092555,-116.097287)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Gravel parking lot on lookers right Concrete boat ramp.
Field Notes:	Boat launch is locked. Contact Avista for access 406-847-1280. Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 27.8 mi 3. 60238 Idaho 200, Clark Fork, Idaho





Cabinet Gorge	Fish Hatchery Boat RampSR200 61.63
Site Lat Long:	48.086706 -116.08024 (http://www.google.com/maps/place/48.086706,-116.08024)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large parking and staging area on fish hatchery road adjacent to boat ramp. Gravel boat rapm.
Field Notes:	Contact fish hatchery for ramp access, 406-847-1282. Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 25.4 mi 3. Turn right onto Stephen St - 0.3 mi 4. Turn left onto S River Rd - 0.7 mi 5. Continue onto Johnson Creek Rd - 295 ft 6. Continue straight onto River Rd - 6.5 mi 7. Turn left onto Cabinet Gorge Rd - 0.6 mi 8. Turn right to stay on Cabinet Gorge Rd - 0.4 mi 9. Cabinet Gorge Hatchery





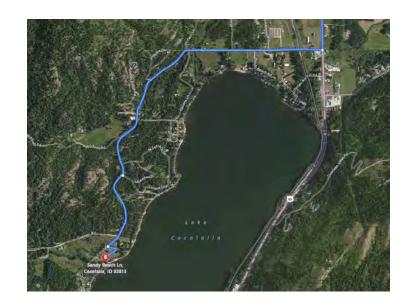
Cabinet Gorge	Dam Upstream Boat Ramp SR200 62.95
Site Lat Long:	48.087107 -116.052317 (http://www.google.com/maps/place/48.087107,-116.052317)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Equipment and vehicle parking area adjacent to rail crossing. Large staging area onsite. Gravel boat ramp.
Field Notes:	Locked gate on road controlled by Avista 406-847-1280.Ramp may not be usable in winter

1. Head north on US-2 E/N Fifth Ave toward Alder St - 1.0 mi 2. Continue onto ID-200 - 25.4 mi 3. Turn right onto Stephen St - 0.3 mi 4. Turn left onto S River Rd - 0.7 mi 5. Continue onto Johnson Creek Rd - 295 ft 6. Continue straight onto River Rd - 6.5 mi 7. Turn left onto Cabinet Gorge Rd - 0.6 mi 8. Turn right to stay on Cabinet Gorge Rd - 0.7 mi 9. Cabinet Gorge Dam



Sandy Beach Boat Ramp US 95 462.5	
Site Lat Long:	48.126724 -116.624359 (http://www.google.com/maps/place/48.126724,-116.624359)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Posted no trespassing. No contact information on sign. Ramp size and quality not verified or documented. Unknown ramp type.
Field Notes:	Ramp may not be usable in winter

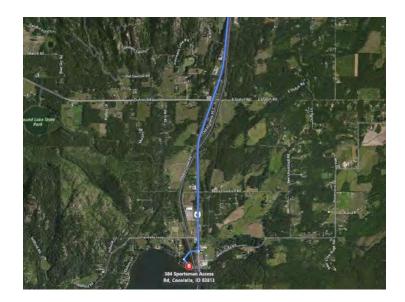
<u>Directions to Site</u> 1. Take US-95 S for 9.5 mi 2. Turn right onto Cocolalla Loop Rd 2.0 mi 3. Turn left at boat launch



Lake Cocolalla Boat Ramp US95 463.6	
Site Lat Long:	48.138325 -116.60323 (http://www.google.com/maps/place/48.138325,-116.60323)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Concrete ramp with large parking area for vehicles and equipment. Concrete boat ramp.
Field Notes:	Ramp may not be usable in winter

1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US - 95 S - 9.6 mi 6. Turn right onto Sportsman Access Rd - 0.2 mi 7. Turn left to stay on Sportsman Access Rd - 203 ft 8. 287 Sportsman Access Rd, Cocolalla, Idaho

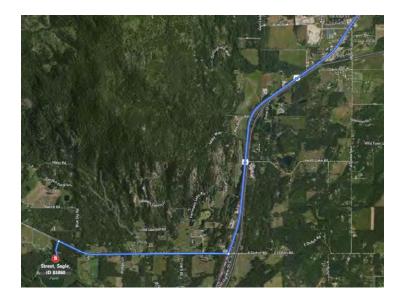




Round Lake Boat Ramp US95 465.1	
Site Lat Long:	48.164107 -116.637451 (http://www.google.com/maps/place/48.164107,-116.637451)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large gravel ramp with adjacent parking area. Gravel boat ramp.
Field Notes:	No gas powered motors allowed on boats. Electric or self propelled boats only. Ramp may not be usable in winter

1. Head south on N Fifth Ave Toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US - 95 S - 8.0 mi 6. Turn right onto Dufort Rd - 1.9 mi 7. Turn left toward Mirror Lake Rd - 0.1 mi 8. Continue onto Mirror Lake Rd - 213 ft 9. Mirror Lake Rd, Westmond, Idaho

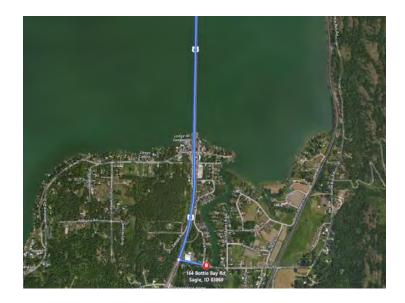




Bottle Bay Bridge Boat Ramp US95 471.08	
Site Lat Long:	48.230089 -116.537762 (http://www.google.com/maps/place/48.230089,-116.537762)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Limited parking along road on narrow shoulder with adjacent gravel boat ramp. Boat ramp best suited for smaller sized boats and trailers. Gravel boat ramp.
Field Notes:	Boat ramp may require 4WD during periods of snow or rain. Ramp may not be usable in winter.

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US-95 S - 2.5 mi 6. Turn left onto Bottle Bay Rd - 0.1 mi 7. 140 Bottle Bay Road, Sagle, Idaho

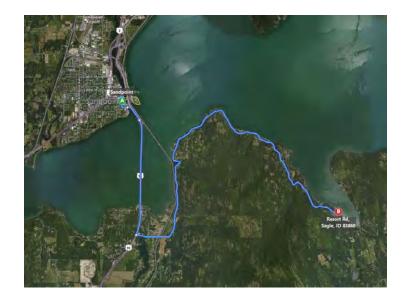




rina Boat Ramp US95 471.65
48.238042 -116.445367 (http://www.google.com/maps/place/48.238042,-116.445367)
Boat Launch. Access only.
Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Large, well taken care of, boat ramp, though it has no parking area. Concrete boat ramp.
Ramp may not be usable in winter

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US - 95 S - 2.5 mi 6. Turn left onto Bottle Bay Rd - 8.1 mi 7. Turn left onto Resort Rd - 0.1 mi 8. 125 Resort Road, Sagle, Idaho

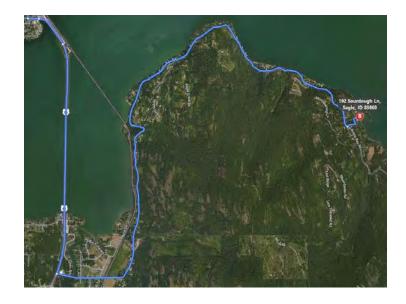




Boat Ramp US95 472.98						
3.255446 -116.469042 (http://www.google.com/maps/place/48.255446,-116.469042)						
pat Launch. Access only.						
Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis						
rge staging and parking area Concrete boat ramp.						
ontact Water Treatment Operator: Robert Hanson 208-265-4270. Ramp may not be usable in winter						

1. Head south on N Fifth Ave toward Cedar St - 0.2 mi 2. Turn left onto Pine St - 0.3 mi 3. Turn right onto S 1st Ave - 0.2 mi 4. Turn left onto E Superior St - 0.5 mi 5. Merge onto US - 95 S - 2.5 mi 6. Turn left onto Bottle Bay Rd - 6.2 mi 7. Turn left onto Sourdough Ln - 0.1 mi 8. Turn right at the 1st cross street onto E Shoreline Ln - 69 ft 9. 22 East Shoreline Lane, Sagle, Idaho

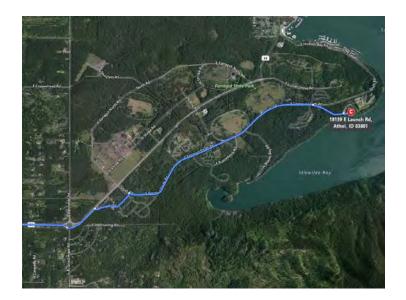




Eagle Boat Ram	np, Farragut State Park SR54 14.65
Site Lat Long:	47.965026 -116.545805 (http://www.google.com/maps/place/47.965026,-116.545805)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large boat ramp and staging area, plenty of room for parking. Concrete boat ramp.
Field Notes:	Located on Farragut State Park, \$10 per vehicle out-of-state fee (\$5 if you're an Idaho resident). Ramp may not be usable in winter

1. Tale US-95 S for 18 mi 2. Turn left onto Bayview Rd- 3.7 mi 3. Continue onto E Careywood Rd- 0.7 mi 4. Turn right onto N Good Hope Rd/E Perimeter Rd- 2.4 mi 5. At the traffic circle, take the 3rd exit onto ID-54 E- 2.8 mi 6. Slight right onto Blackwell Cir Dr/Locust Grove Rd-Park Entrance, continue to follow Blackwell Cir Dr- 0.6 mi 7. Turn right toward Launch Rd- 0.2 mi 8. Slight left onto Launch Rd





Bayview Boat F	Ramp SR54 15.57
Site Lat Long:	47.980766 -116.558464 (http://www.google.com/maps/place/47.980766,-116.558464)
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	Large boat launch and staging area in the town of Bayview. Concrete boat ramp.
Field Notes:	The boat launch it self doesn't have much of a staging area, but there are plenty of adjacent lots/parking area that would work just fine. Due to Farragut State park there is a \$10 out-of-state fee to launch a boat from here (\$5 if you're an Idaho resident). Ramp may not be usable in winter

1. Tale US-95 S for 18 mi 2. Turn left onto Bayview Rd- 3.7 mi 3. Continue onto E Careywood Rd- 0.7 mi 4. Continue onto E Perimeter Rd- 2.4 mi 5. Slight right onto N Main Ave- 0.2 mi 6. Turn left onto Lakeside Ave- 230 ft 7. Turn right onto E Boileaus G Dock





Sandpoint War	Memorial
Site Lat Long:	48.264697 -116.558078
Strategy Objective:	Boat Launch. Access only.
Site Safety Note:	Slip, trip, fall hazards; traffic/roadway hazards, congestion, water hazards, hazards from spilled material. Expect extreme winter conditions from middle of November to middle of March. Complete a task specific Job Safety Analysis
Staging Area:	<div>Large parking area for vehicles and equipment adjacent to boat ramp. Concrete boat ramp.</div>
Field Notes:	Ramp is unusable at low pool level.
	Photo unavailable.

Directions to Site: 1. Head north on S 1st Ave toward Lake St. 2. Turn left onto Lake St 3. Turn left onto Euclid Ave. 4. Turn right onto Lakeview Blvd. 5. Turn left into parking lot.

Appendix G Other Geographic Response Plans – Rosetta Stone

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
Sector 1A: V	Vest Pend Ore	eille	-					
US2 0.30	POVA 1430.86	Oldtown Boat Launch	Contaminant Collection	POVA 1430.8/0.3	Collection & Recovery			
US2 2.0	POVA 1428.59	Albeni Falls Dam	Contaminant Collection	POVA 1428.7/2.0	Notification only	LPO1_29.23	Albeni Falls Dam	Collection & Recovery
US2 2.21	POVA 1428.66	Albeni Cove Recreation Area	Contaminant Collection	POVA 1428.6/2.2	Collection & Recovery			
Sector 1B: V	Vest Pend Ore	eille Fire District					•	
US2 5.73	POVA 1424.79	10 <sup>th</sup> Street Surface Water	Exclusion					
US2 6.2	POVA 1424.31	Priest River South	Contaminant Collection	POVA 1421.6/6.3	Collection & Recovery	LPO1_20.2	Priest River Slough #1	Exclusion
US2 6.38	POVA 1424.13	Priest River City Water Intake	Exclusion	POVA 1424.1/6.5	Deflection	LPO1_24.86	Priest River Boat Ramp	Collection & Recovery, does not address city water intake
US2 6.87	POVA 1423.64	Priest River Mouth	Exclusion			LPO1(24.54	Priest River Trestle	Exclusion
US2 7.59	POVA 1423.0	Priest River Mouth Slough	Exclusion; Very long booms			LPO1_23.55	Priest River Slough #3	Exclusion
US2 10.19	POVA 1420.46	Carey Creek Game Management Area	Deflection			LPO1_21.68	Priest River Slough #2 (This is incorrectly named)	Exclusion
US2 10.52	POVA 1420.12	Baylor Lane Slough	Exclusion	-	-	LPO1_20.7	Priest River Slough #1 (This is incorrectly named)	Exclusion

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy			
Sector 2: Westside Fire											
US2 13.3	POVA 1417.28	Riley Creek Slough	Contaminant Collection	POVA 1417.1/13.4	Collection & Recovery	LPO1_18	Riley Creek	Exclusion			
US2 13.49	POVA 1417.06	Riley Creek Recreation Area	Contaminant Collection								
US2 14.37	POVA 1416.24	Laclede Public Water Supply	Exclusion	POVA 1416.4/14.3	Deflection						
US2 16.06	UP Spokane Railroad 62.78	Cocolalla Creek Mouth	Exclusion	UP MP 63.1 HMP 16.1 Dufort Road Bridge	Collection & Recover Location is further inland than DEQ GRP or MRL GRP	Lpo1_14.82	Morton Slough – error, this is misnamed in the MRL GRP. Correct geographical name is Cocolalla Creek Mouth	Deflection			
US2 16.29	UP Spokane Railroad 63.14	Morton Slough Boat Launch	Contaminant Collection	POVA 63.2/16.2	Collection & Recovery						
						LPO1_13.48	Upper Morton Slough	Exclusion			
						LPO1_12.46	Johnson Creek Slough	Exclusion			
						LPO1_11.06	Gypsy Bay	Exclusion			
US2 20.71	POVA 1409.86	Bay near Muskrat Lake	Exclusion			LPO1_9.66	Bay near Muskrat Lake	Exclusion			
						LPO1_9.28	Smith Creek Slough	Exclusion			
						LPO1_8.01	Pend Oreille Union Pacific Railroad Trestle	Collection & Recovery			

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
						LPO1_8.02	Snug Harbor Slough	Exclusion
						LPO1_6.73	Hornby Creek Mouth	Deflection
US2 24.89	BNSF Newport 71.01	Dover Bay Clough	Exclusion			LPO1_6.12	Dover Slough	Exclusion
						LPO1_5.65	Springy Point Slough	Exclusion
US2 25.16	BNSF Newport 71.31	Dover Bay Marina	Contaminant Collection	BNSF 71.4/25.2	Collection & Recovery			
US2 25.63	BNSF Newport 71.87	Dover Bay Water Intake	Exclusion	BNSF 71.7/25.5	Deflection	LPO1_5.3	Dover Water Intake	Deflection
Sector 3A: S	andpoint							
US2 26.68	BNSF Newport 72.79	Chuck Slough	Collection & Recovery			LPO1_4.22	Chuck Slough	Exclusion
US2 27.07	BNSF Newport 73.29	Ontario St West	Collection & Recovery	BNSF 73.7/27.1	Collection & Recovery			
US2 27.17	BNSF Newport 73.33	Ontario St East	Collection & Recovery	BNSF 73.7/27.1	Collection & Recovery			
US2 27.74	BNSF Newport 3.32	S. Ella Ave Culvert	Collection & Recovery					

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
Sector 3B: S	andpoint							
US2 28.02	BNSF Spokane 3.33	Memorial Park Culvert	Collection & Recovery					
US2 28.17	BNSF Spokane 3.35	S Euclid Ave Culvert	Collection & Recovery					
US2 28.31	BNSF Spokane 3.37	S 4 <sup>th</sup> Ave Culvert	Collection & Recovery					
US2 28.36	BNSF Spokane 3.38	S 3 <sup>rd</sup> Ave Culvert	Collection & Recovery					
US95 472.85	BNSF Spokane 4.28	Long Bridge	Collection & Recovery	BNSF 4.3/472.8	Collection & Recovery	LPO1_1.37	Sandpoint	Collection & Recovery between RR & Highway Long bridges; very confusing strategy that will not work
US95 473.84	BNSF Spokane 3.4	Sandpoint Public Works Water Intake	Exclusion	BNSF 3.2/474.3	Exclusion			
US95 473.9	BNSF Spokane 3.17	Sandpoint City Beach & Marina	Collection & Recovery	BNSF 3.1/474.4	Collection & Recovery	LPO1_0.14	Sandpoint City Beach	Deflection
US95 473.91	BNSF Spokane 3.29	Mouth of Sand Creek	Collection & Recovery					
US 95 474.31	BNSF Spokane 3.13	Lower Sand Creek	Collection & Recovery			LPO1_0.2	Sand Creek	Collection & Recovery

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
Sector 3D: S	andpoint							
US95 474.41	BNSF Spokane 3.02	E Cedar St Culvert #1	Collection & Recovery			-		
US95 474.45	BNSF Spokane 2.98	E Cedar St Culvert #2	Collection & Recovery					
US95 474.46	BNSF Spokane 2.97	E Cedar St Culvert #3	Collection & Recovery					
US95 474.78	BNSF Spokane 2.9	Alder St Culvert	Collection & Recovery					
US95 475.09	BNSF Kootenai 1402.96	N 5 <sup>th</sup> Ave Surface Water Outflow #1	Collection & Recovery					
Sector 3D: S	andpoint							
US95 475.21	BNSF Kootenai 1402.75	N 5 <sup>th</sup> Ave Surface Water Outflow #2	Collection & Recovery			-		
US95 475.22	BNSF Kootenai 1402.75	N 5 <sup>th</sup> Ave Surface Water Outflow #3	Collection & Recovery					
US95 475.3	BNSF Kootenai 1402.66	Sand Creek Trestle	Collection & Recovery			MRL4z_118.27	Sand Creek Trestle	Collection & Recovery
US95 475.32	BNSF Kootenai 1402.63	Visitor Center Culvert #1	Collection & Recovery					

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
US95 475.34	BNSF Kootenai 1402.6	Visitor Center Culvert #2	Collection & Recovery					
US95 475.4	BNSF Kootenai 1402.58	Visitor Center Culvert #3	Collection & Recovery					
US95 475.41	BNSF Kootenai 1402.55	Visitor Center Culvert #4	Collection & Recovery					
US95 475.42	BNSF Kootenai 1402.57	Baldy Mountain Rd Surface Water Outflow #2	Collection & Recovery					
US95 475.5	BNSF Kootenai 1402.53	Baldy Mountain Rd Surface Water Outflow #1	Collection & Recovery					
US95 475.53	BNSF Kootenai 1402.33	N Boyer Ave & Baldy Mountain Rd	Collection & Recovery					
Sector 4A: N	lorthside (Lak							
		Sand Creek Bike Path		MP402.5 [HMP 475.6]	Collection & Recovery			
		Baldy Mountain Rd Culvert		MP 75.0 [HMP 475.6]	Collection & Recovery			
US95 478.53	BNSF Kootenai 1399.09	Bronx Rd	Collection & Recovery	BNSF 1399.1/478.5	Collection & Recovery			

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
US95 479.99	BNSF Kootenai 1399.67	Sand Creek Water Treatment Plant	Notification only					
SR200 33.15	MRL4 114.92	Boyer Clough	Collection & Recovery			MRL4z_114.94	Boyer Slough	Collection & Recovery
SR200 34.53	MRL 113.5	Oden Water Assn Water Intake	Exclusion	MRL 13.6/34.4	Notification only	MRL4z)113.49	Kootenai Bay	Notification & Exclusion but does not address water intake
SR200 34.98	MRL4 113.0	Culver Slough	Exclusion			MRL4z_	Culver Slough	Exclusion
SR200 36.39	MRL4 109.77	Pend Oreille State Wildlife Management Area	Exclusion			MRL4z_110.29	Pend Oreille State Wildlife Management Area	Exclusion Actual location is different than for DEQ approach
SR200 38.69	MRL4 109.93	Pack River Bridge	Exclusion	MRL 109.6/38.6	Collection & Recovery			
SR200 41.28	MRL4 107.49	Sunnyside Water Intake	Exclusion	MRL 108.2/40.6	Notification Only	MRL4z_107.39	Sunnyside (does not address water intake)	Exclusion
	lorthside (Sell			Γ				
US95 480.44	BNSF Kootenai 1397.09	West Selle Rd	Collection & Recovery	BNSF 1397.1/480.5	Collection & Recovery			
US95 484.17	BNSF Kootenai 1393.33	East Colburn	Collection & Recovery					
US95 485.77	BNSF Kootenai 1391.75	Lower Pack River	Collection & Recovery	BNSF 85.0/485.7	Collection & Recovery			

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy
SR200 37.78	MRL 111.05 UP 81.9	Rapid Lightning Bridge	Collection & Recovery	UP 82.3/37.7	Collection & Recovery			
Sector 5: Sa	m Owen Fire							
SR200 40.78	MRL4 107.95	Pack River Trestle	Exclusion	MRL 107.9/40.8	Exclusion	MRL4z_108.35	Pack River Trestle	Exclusion
SR200 42.09	MRL4 106.71	Trestle Creek	Exclusion					
						MRL4z_106.21	Trestle Creek Boat Ramp	Exclusion; address boat ramp, not Trestle Creek Steam
SR200 46.4	MRL4 102.4	Red Fir Resort Water Intake	Exclusion	MRL 102.6/46.2	Notification Only	MRL4z_102.47	East Hope Peninsula	Exclusion
						MRL4z_100.85	Sam Owen Campground	Exclusion
SR200 48.08	MRL4 100.86	Islandview Resort Water Intake	Exclusion	MRL 100.6/48.2	Notification Only			
SR200 49.45	MRL4 99.36	Kullyspell Estates Water Intake	Exclusion	MRL 99.4/49.5	Notification Only	MRL4z_99.44	Sam Owen South Bay	Exclusion
SR200 50.19	MRL4 98.52	David Thompson Wildlife Preserve	Exclusion	MRL 98.5/50.3	Notification Only			
SR200 50.4	MRL4 98.43	Denton Slough	Exclusion	MRL 98.4/50.4	Notification Only	MRL4z_98.46	Denton Slough	Collection & Recovery

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy				
Sector 6: Clark Fork												
SR200 54.83	MRL4 94.47	Johnson Creek Trestle	Exclusion	-		MRL4z_94.52	Johnson Creek Trestle	Exclusion; Identical to the brainstorming we did with F&G on 4/12/16. See page 271. Only called for 650 ft of curtain boom				
SR200 54.50	MRL 94.26	Mouth of Clark Fork	Diversion with Collection Downstream			MRL4z_97.35	Mouth of Clark Fork	Collection & Recovery				
SR200	MRL4	Clark Fork	Collection &	MRL 93.0/56.0	Collection &	MRL4z_93.62	Clark Fork, ID	Collection &				
56.05	92.92	Bridge	Recovery		Recovery		Trestle	Recovery				
SR200 57.12	MRL4 91.79	Lower Fish Hatchery Slough	Exclusion			MRL4z_91.83	Lower Fish Hatchery Slough	Exclusion				
SR200 58.62	Mrl4 90.45	Upper Fish Hatchery Slough	Deflection			MRL4z_90.56	Upper Fish Hatchery Slough	Exclusion				
						MRL4z_89.31	Twin Creek	Exclusion				
SR200	MRL4	Clark Fork River	Contaminant	MRL 87.7/61.3	Collection &							
60.79	87.66	Access	Collection		Recovery							
SR200	MRL4	Cabinet Gorge	Collection &	MRL 86.8/61.7	Notification Only	MRL4z_86.79	Cabinet Gorge Fish	Collection &				
61.63	86.81	Fish Hatchery	Recovery				Hatchery	Recovery				
SR200 62.95	MRL4 85.35	Cabinet Gorge Dam	Contaminant Collection	MRL 85.4/63.0 (action) MRL 85.7/62.7	Notification & Contaminant Collection	MRL4z_85.35	Cabinet Gorge Dam	Collection & Recovery				
				(notification only)	Upstream of Dam & Notification Only at the Dam							

Site ID & Highway Milepost	Railroad Milepost	Site Name	DEQ Approach	Corresponding BNSF Strategy	BNSF Approach	MRL Site Designator	MRL Site Name	MRL Strategy					
Sector 7A: Sagle (South)													
		Lake Pend Oreille – Open Water Recovery		MP 96.9 [HMP51.7]	Collection & Recovery		-						
US95 461.32	BNSF Spokane 16.94	Cocolalla Creek Trestle	Collection & Recovery	MP 16.9 [HMP 461.3]	Collection & Recovery								
			HWY 95 [Cocolalla Creek South of BNSF 16.9]	BNSF 20.6 [HMP 458.2]	Collection & Recovery		-						
US95 463.95	BNSF Spokane 14.07	Cocolalla Loop Rd Bridge	Contaminant Collection	BNSF 14.2/463.9	Collection & Recovery								
Sector 7B: Sa	agle (North)												
US95 471.08	BNSF Spokane 6.7	Bottle Bay Bridge	Exclusion	BNSF 6.6/471.0	Collection & Recovery								
		Waterlife Discovery Center Sandpoint Fish Hatchery		BNSF 7.4/470.5	Notification Only	LPO1_3.42	Sandpoint Fish Hatchery	Exclusion					
US95 472.98	BNSF 4.4	Sourdough Point Water Intake	Exclusion	BNSF 4.4/473.1	Notification Only								