

# **MIDDLE COLUMBIA RIVER**

## **JOHN DAY POOL**

### **Geographic Response Plan**

**(MCRJ-GRP)**

## **CHAPTER 4**

### **Response Strategies and Priorities**

**AUGUST 2017**

## **Before you print this document**

This chapter and its appendices, as well as the appendix at the end of Chapter 6, are provided in “landscape” page orientation. The detailed 2-page information sheets for each pool’s response strategies, notification strategies, staging areas, and boat launch locations in appendices 4A through 4D ([83-274](#)) have been designed for duplex printing (front and back side of paper), “open to top” configuration.

## 4.1 CHAPTER INTRODUCTION

This chapter provides information on GRP response strategies and the order (priority) they should be implemented, based on potential oil spill origin points (POSOPs) and their proximity and relative priority of sensitive resources near those point locations. Area maps, sector maps, and information on staging areas and boat launch locations are also provided in this chapter. 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 4.3 should be used to decide the order that GRP strategies are deployed. The downstream movement of oil 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, sensitive areas, and flight restrictions can be found in Chapter 6 of this plan. Information on protection techniques can be found in Appendix A. Information on shoreline countermeasures can be found in the Northwest Area Shoreline Countermeasures Manual ([NWACP Section 9420](#)). The Northwest Area Contingency Plan (NWACP) is available online at <http://www.rrt10nwac.com/NWACP/Default.aspx>.

The GRP strategies provided in this chapter have been created to reduce spilled oil's impact on sensitive resources. They are not 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 oil spills. Control and containment of an oil spill is always a higher priority than the implementation of GRP response strategies. Although designed to be implemented during the initial phase of an oil spill, GRP strategies may continue to be used throughout a response at the discretion of the Incident Commander, Unified Command, or the Environmental Unit.

### 4.1.1 On-site Considerations

#### ***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, lake, or marine environment is the spilled oil likely to travel before response personnel will be ready and able to deploy GRP response strategies?

Are permits required? Consult the Northwest Area Contingency Plan Permit Summary Table (NWACP Section 9401) for information specific to your location and circumstance.

Will equipment or vehicles need to be staged on or near a roadway? If so, traffic control may be required. Contact the Washington State Patrol, the Oregon State Police, or local, county, municipality, or tribal police for assistance. At minimum, [Washington Department of Transportation \(WADOT\) guidelines](#) for work zone traffic control should be followed when working on or near a roadway.

- Washington State Patrol District #3 (509) 575-2320
- Washington State Patrol District #5 (360) 449-7909
- Oregon State Patrol, The Dalles Area (541) 296-9646
- See Local Government Contact Sheets [Spill Response Contact Sheet1](#)

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

- On-scene conditions (weather, currents, tides, waves, river speed, and debris) may require that strategies be modified in order to be effective. There is a significant chance that weather and conditions experienced at a particular strategy location during an actual spill event will be different from that when data was gathered during field visits. Response managers and responders may modify the strategies provided in this chapter 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.

Oil containment boom must be free of twists, gaps, and debris in order to remain effective.

The GRP response strategies provided in this chapter were designed for use with persistent heavy oils that float on water and may not be suitable for other petroleum products or hazardous substances. For information about non-floating oil spill response, refer to the Non-Floating Oil Spill Response Tool in the [Northwest Area Contingency Plan](#) (NWACP), Section 9412.

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

Oil containment boom should be maintained and periodically monitored to ensure its effectiveness. Changes in river or current speed will likely require modifications to boom deflection angles (see Table 4.1). Depending on conditions, some booming strategies may require around-the-clock tending.



### ***Water Speed and Boom Deflection Angle***

Measure the speed that water is moving by anchoring a line with two floating markers/buoys attached that are spaced 100 feet apart. Time the movement of floating debris between the two buoys, and then use Table 4.1 to estimate the water speed based on the travel time of the debris between the two buoys. You can also measure 100 feet along a straight portion of river bank or shoreline, and time the movement of debris between those points, but this method is generally less accurate than using the buoys. The maximum boom deflection angle is also provided in the table, based on the water speed measurements.

**Table 4-1: Water Speed Drift Measurement Table**

<b>Time to Drift 100 Feet (seconds)</b>	<b>Velocity (ft/sec)</b>	<b>Velocity (m/sec)</b>	<b>Velocity (knots)</b>	<b>Max Boom Deflection Angle (degrees)</b>	<b>Boom required for 100-foot Profile to Current (feet)</b>	<b>Anchors needed if Placed Every 50 feet (number)</b>
6	16.7	5.1	10.00	4.0	1,429	30
8	12.5	3.8	7.50	5.4	1,071	22
10	10.0	3.1	6.00	6.7	857	18
12	8.3	2.5	5.00	8.0	714	15
14	7.1	2.2	4.29	9.4	612	13
17	5.9	1.8	3.53	11.4	504	11
20	5.0	1.5	3.00	13.5	429	10
24	4.2	1.3	2.50	16.3	357	8
30	3.3	1.0	2.00	20.5	286	7
40	2.5	0.8	1.50	27.8	214	5
60	1.7	0.5	1.00	44.4	143	4
>86	≤1.2	≤0.35	≤0.70	90.0	100	3

Source: Oil Spill Response in Fast Currents. A Field Guide. U.S. Coast Guard Research and Development Center. October, 2001

#### 4.1.2 Historical River Flow Ranges

Stream-flow data from U.S. Geological Survey (USGS) was used to determine the mean monthly river discharge for the Columbia River and its tributaries. River discharge is recorded in cubic feet per second (cfs); velocities are in miles per hour (mph). Table 4.1 provides information that can be used to calculate local river velocities on-site, based on the time it takes a floating object to drift 100 feet downstream from any given point in a river or creek. Additional information for USGS gage stations in the planning area are provided below, and may include real-time or near real-time streamflow data. The USGS National Water System Mapper is useful for locating gage stations of interest, and is available online at <http://maps.waterdata.usgs.gov/mapper/index.html>.

**Table 4-2: Historical River Streamflow Ranges**

Monthly Average Flow in Cubic Feet per Second (cfs)						
	Priest Rapids	The Dalles	Walla Walla	Yakima	Klickitat	White Salmon
<b>Jan</b>	114,000	168,000	1,120	4,190	2,090	1,510
<b>Feb</b>	109,000	171,000	1,250	4,820	2,400	1,600
<b>Mar</b>	104,000	180,000	1,390	4,920	2,370	1,610
<b>Apr</b>	126,000	224,000	1,280	5,140	2,340	1,540
<b>May</b>	164,000	285,000	880	5,800	2,500	1,590
<b>Jun</b>	187,000	295,000	402	4,460	1,920	1,300
<b>Jul</b>	148,000	202,000	52	1,760	1,190	919
<b>Aug</b>	111,000	148,000	23	1,560	846	723
<b>Sep</b>	75,300	105,000	43	1,850	749	636
<b>Oct</b>	78,100	109,000	71	2,170	792	652
<b>Nov</b>	93,100	128,000	308	3,020	1,040	868
<b>Dec</b>	110,000	153,000	771	3,530	1,450	1,180
<b>MPH</b>	0.5 mph	0.5 mph		3.5 mph		

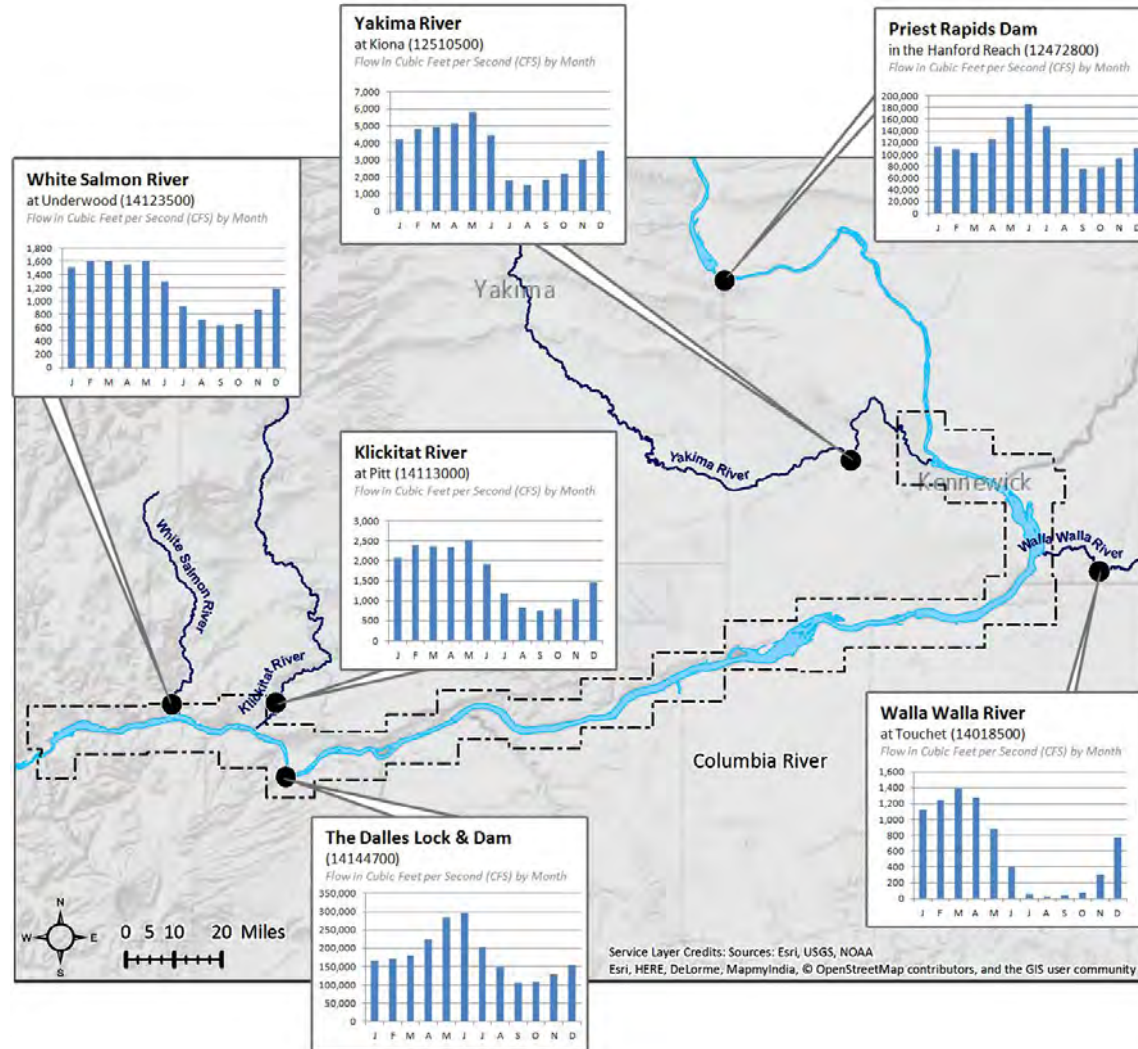


Figure 4-1: USGS Mean Monthly Discharge Measurements for the Columbia River and Tributaries

## 4.2 AREA OVERVIEW MAPS

The following maps provide a geographic overview of the Middle Columbia River-John Day GRP area. Sector maps in Section 4.4 of this chapter provide more detail on the location of response strategies, notification strategies, staging areas, boat launch locations, and Potential Oil Spill Origin Points (POSOPs). Detailed information for each location can be found in the matrices of Section 4.5 or in the chapter appendices. Priority tables for potential oil spill origin points can be found in Section 4.3.2.

The following area maps are provided, by pool, for reference:

[Response Strategy Locations](#)

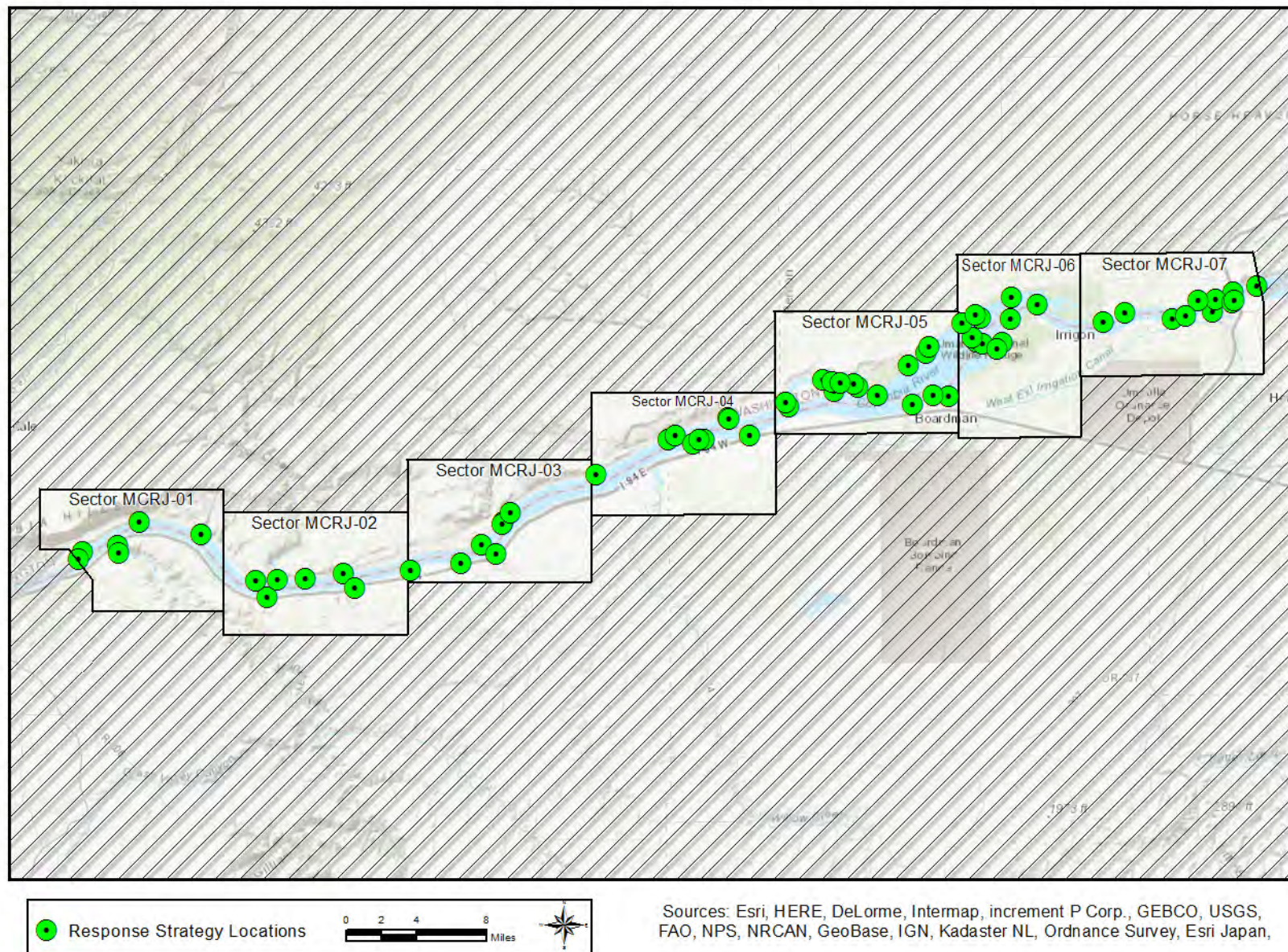
[Notification Strategy Locations](#)

[Staging Areas](#)

[Boat Launch Locations](#)

[Potential Oil Spill Origin Points](#)



**Figure 4-2: Response Strategy Locations**



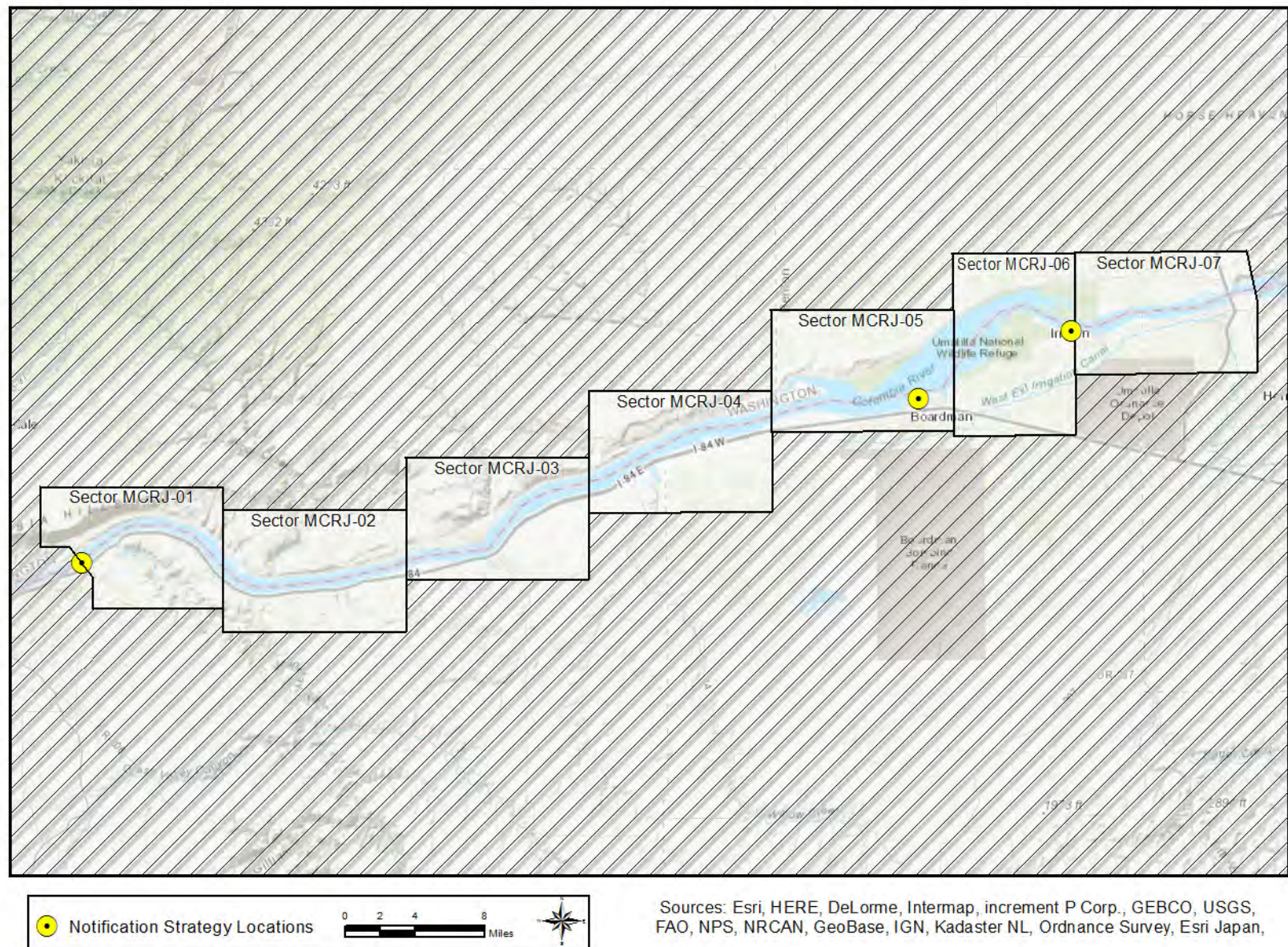


Figure 4-3: Notification Strategy Locations



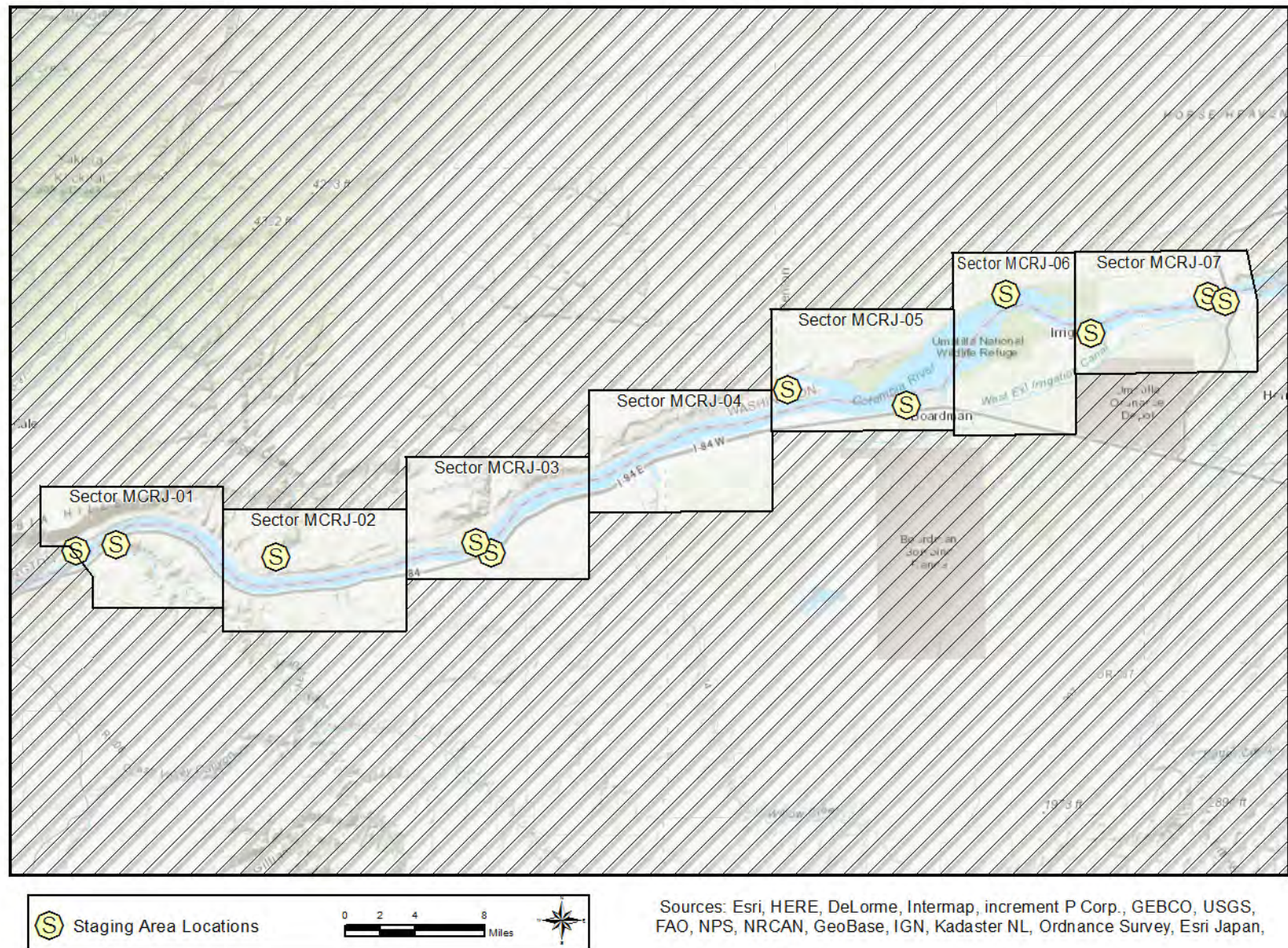


Figure 4-4: Staging Area Locations







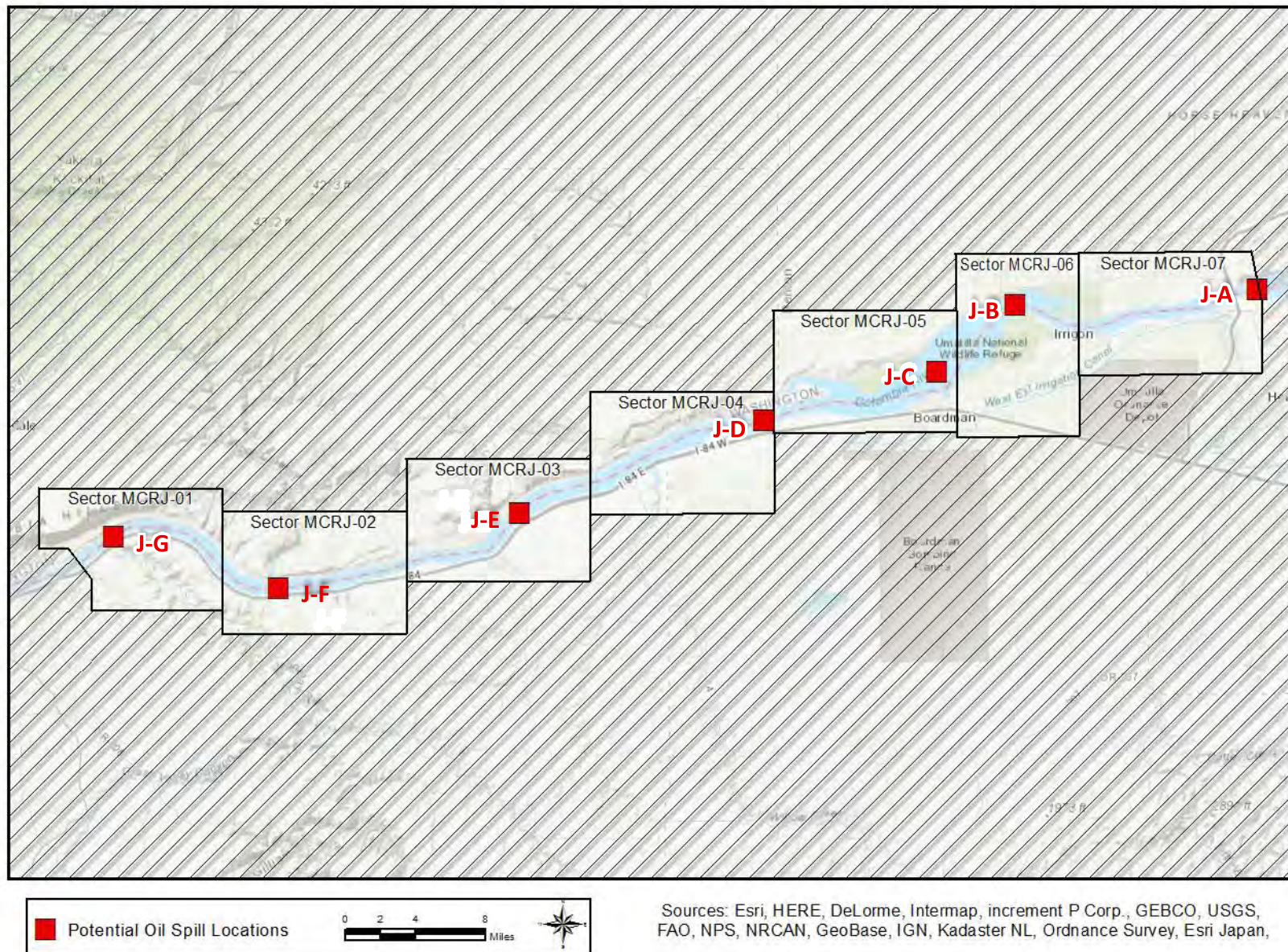


Figure 4-6: Potential Oil Spill Origin Points

## 4.3 STRATEGY AND RESPONSE PRIORITIES

### 4.3.1 General Response Priorities

The following list provides the order of response priorities after an oil spill in the planning area occurs.

- Safety is always the number one priority. Do not implement GRP strategies or take actions that will unduly jeopardize public, worker, or personal safety.
- Notify local public health and safety personnel.
- Control and contain the source of the spill; mobilize resources to the spill location. Source control and containment are always a higher priority than the implementation of GRP strategies.
- Determine the priority or order GRP strategies should be implemented based on the location of the spill or affected area. Priorities based on POSOPs are included in this chapter and should be used unless the situation or circumstances dictate otherwise (see Section 4.3.2).
- As response resources become available, implement the GRP Strategies in order of priority or as necessary based on the scenario, trajectory, or conditions of the day.
- Permits may be required. Consult the Northwest Area Contingency Plan Permit Summary Table ([NWACP Section 9401](#)) for information.

### 4.3.2 Strategy Priorities based on Potential Oil Spill Origin Points

POSOPs are geographic locations that have a defined list of response strategy implementation priorities provided in a table within Section 4.3. The placement of each POSOP is often based on spill risks in the area. Occasionally POSOPs are generalized to ensure implementation priorities are developed throughout an entire planning area.

These points are displayed on area overview and sector maps as red boxes. In establishing response priorities during a response, or selecting an appropriate POSOP, the downstream and/or tidal movement of spilled oil and the time it takes to mobilize and deploy response resources must be considered. Generally, on streams, creeks, and rivers, GRP strategies should first be implemented downstream, well beyond the furthest extent of the spill, with deployments continuing upstream towards the spill source and in some cases slightly beyond. PSOPs are alphabetically designated.

The following tables provide the strategy implementation order for Potential Oil Spill Origin Points in the John Day Pool-GRP; example include, points J-A, J-B, J-C and J-D. The priority tables provided in this section were developed using a combination of variables, including: notification time, travel time for responders and equipment, average and seasonal flow rates, average winds, deployment time, proximity to the spill source, trustee input, the relative priority of the resources at risk, and other considerations.

***“Source control and containment are a higher priority than GRP strategy implementation”***



Table 4-3: J-A (McNary Lock and Dam ~J-292.55)

J-A (McNary Lock and Dam ~J-292.55)				
Implementation Priority	Strategy Number	Sector Map (Page #)	Strategy Matrix (Page #)	Strategy Details (Page #)
1	J-287.1L	57	72	195
2	J-288.0L	57	72	197
3	J-288.8R	57	72	199
4	J-289.6L	57	72	201
5	J-289.9R	57	73	203
6	J-290.8L	57	73	205
7	J-290.9L	57	73	207
8	J-291.0R	57	73	209

**Table 4-4: J-B (Paterson Area ~J-277.7)**

<b>J-B (Paterson Area ~J-277.7)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Detail (Page #)</b>
1	J-275.0L	56	69	175
2	J-275.0R	56	69	177
3	J-275.5L	56	69	179
4	J-275.8R	56	70	181
5	J-275.9M	56	70	183
6	J-277.3L	56	70	185
7	J-277.7R	56	71	187

**Table 4-5: J-C (Boardman Area ~J-272)**

<b>J-C (Boardman Area ~J-272)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Details (Page #)</b>
1	J-266.6R	55	66	155
2	J-269.3L	61	66	157
3	J-269.9R	61	66	159
4	J-270.2L	61	67	161
5	J-271.4L	61	67	163
6	J-272.2R	61	67	165

**Table 4-6: J-D (Sixmile Canyon Area ~J-260)**

<b>J-D (Sixmile Canyon Area ~J-260)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Details (Page #)</b>
1	J-256.8M	54	63	129
2	J-257.3L	54	63	131
3	J-258.6R	54	63	133
4	J-258.65R	54	63	135
5	J-259.8L	54	64	137

**Table 4-7: J-E (Roosevelt Area ~J-245.2)**

<b>J-E (Roosevelt Area ~J-245.2)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Details (Page #)</b>
1	J-242.7L	53	61	113
2	J-242.3R	53	61	111
3	J-244.4R	53	62	115
4	J-244.5R	53	62	117
5	J-245.1R	53	62	119

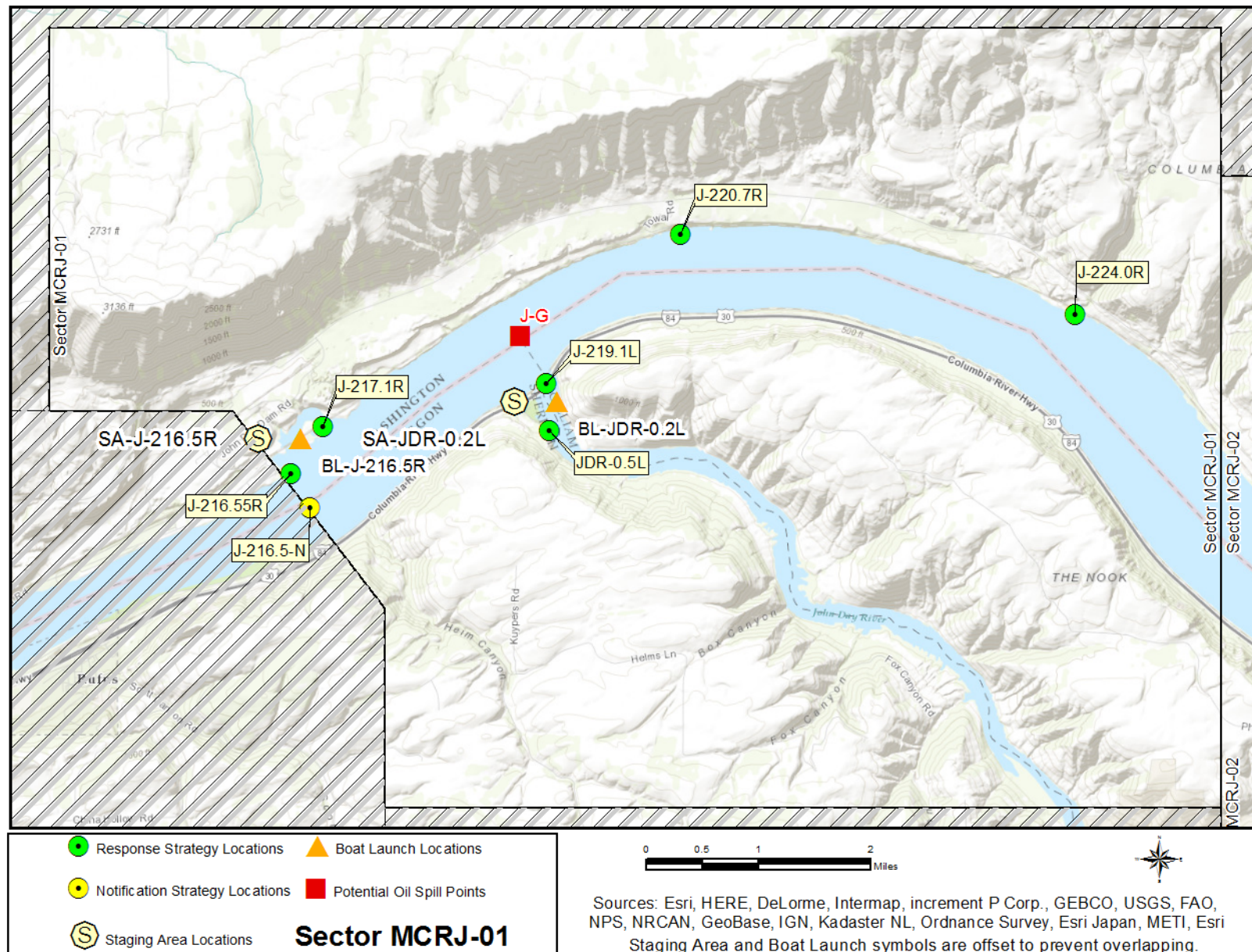


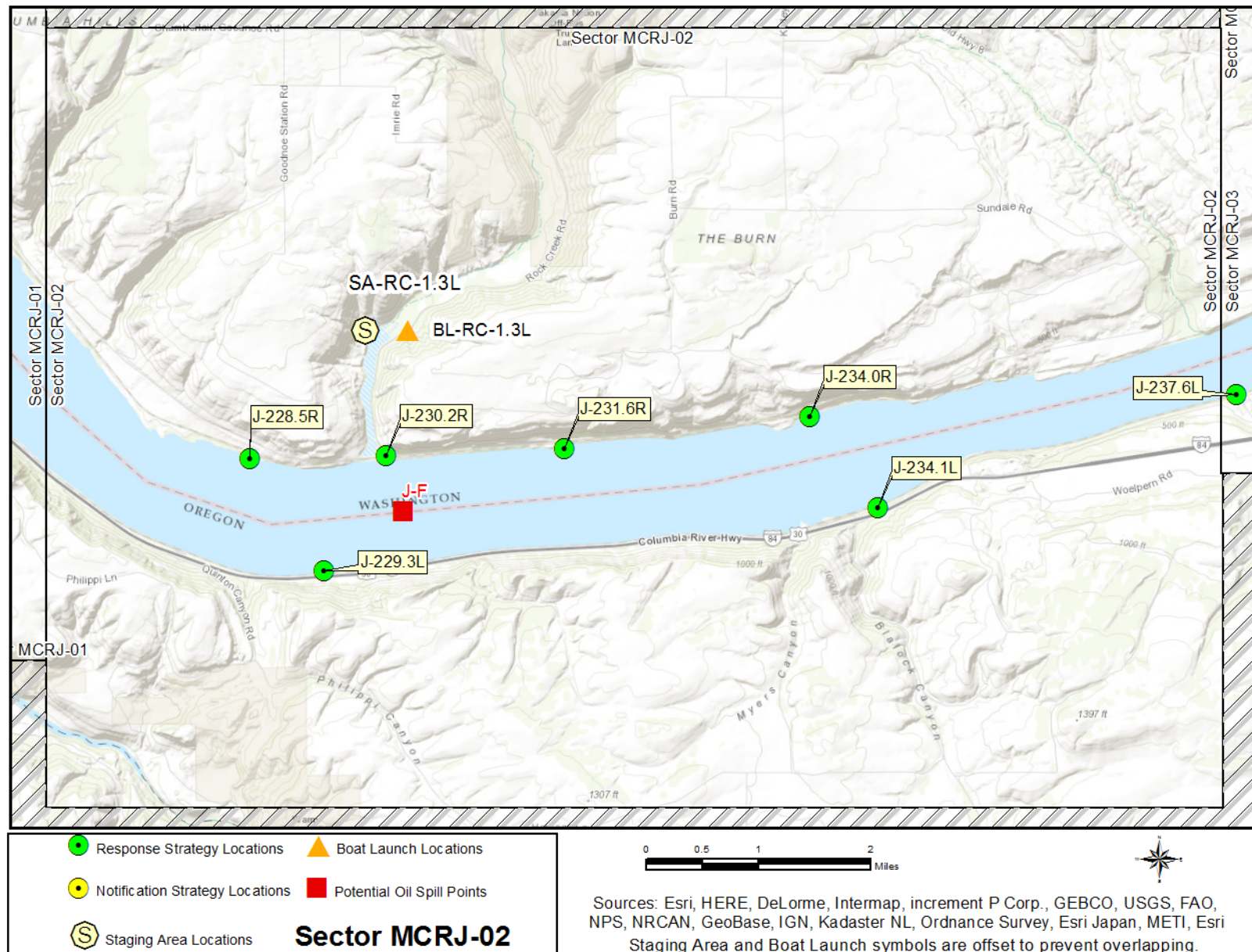
**Table 4-8: J-F (Rock Creek Confluence~J-230.2)**

<b>J-F (Rock Creek Confluence~J-230.2)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Details (Page #)</b>
1	J-228.5R	52	60	95
2	J-229.3L	52	60	97
3	J-230.2R	52	60	99

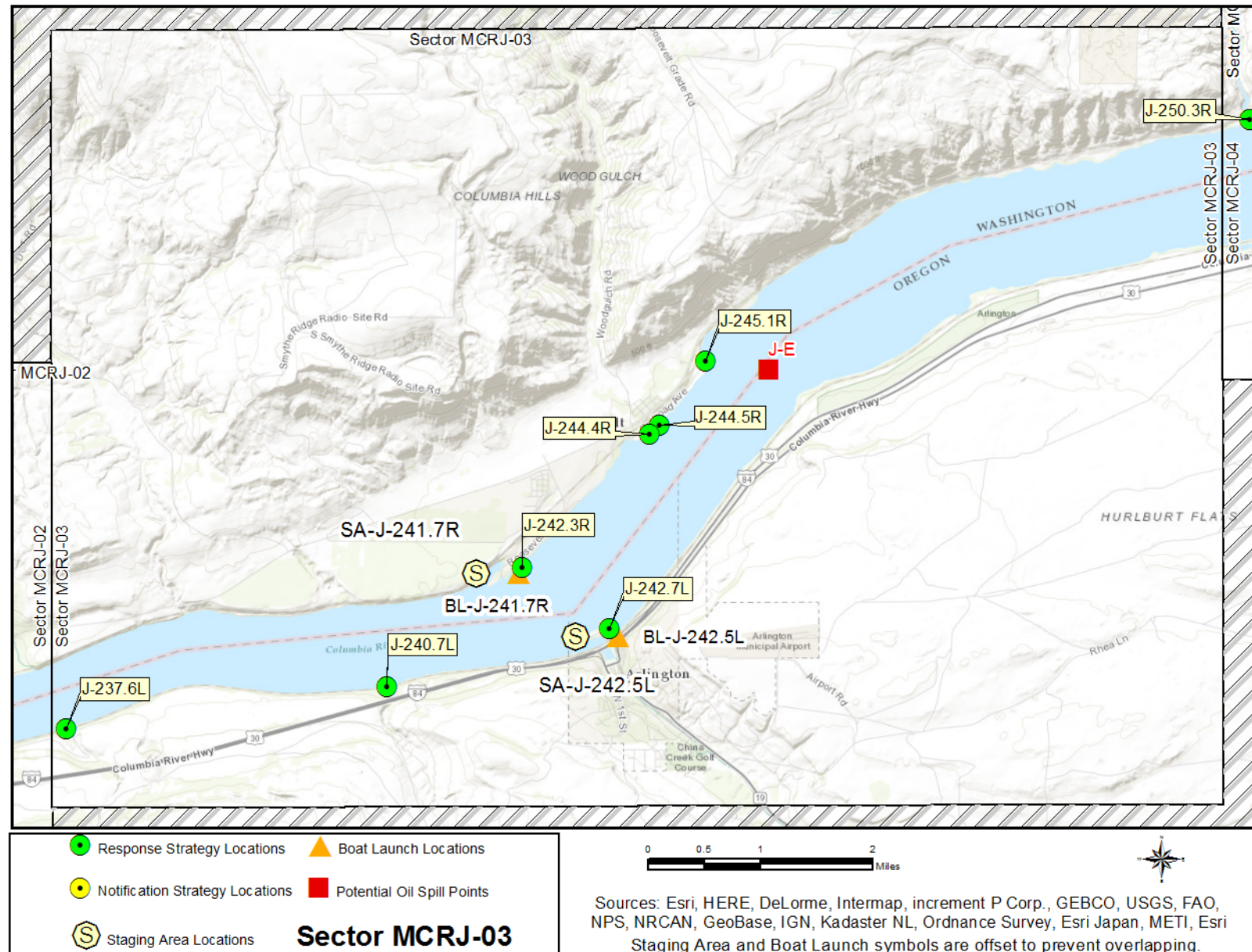
**Table 4-9: J-G (John Day River Confluence~J-219.1)**

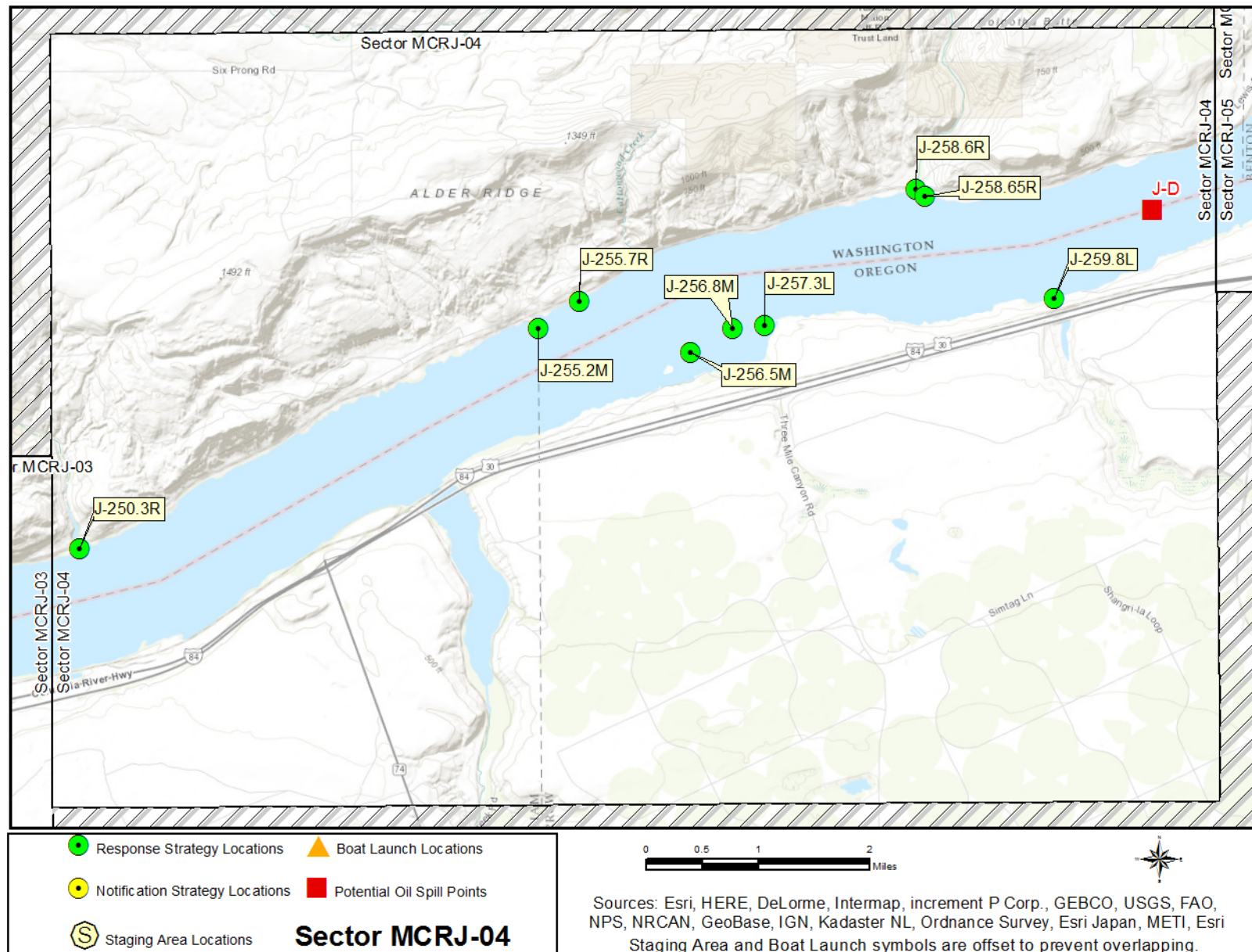
<b>J-G (John Day River Confluence~J-219.1)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Details (Page #)</b>
1	J-216.55R	51	59	85
2	J-217.1R	51	59	87
3	J-219.1L	51	59	89





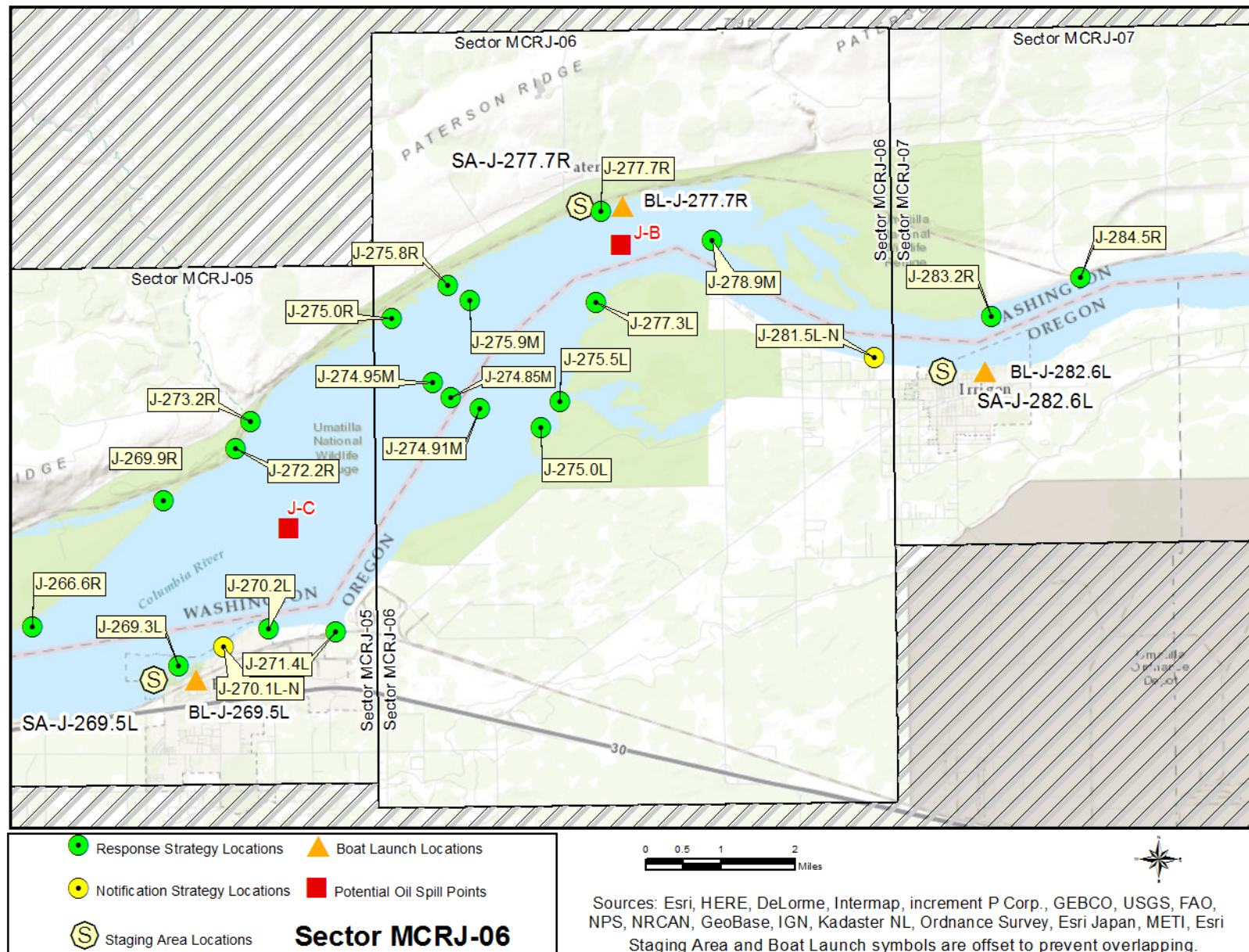




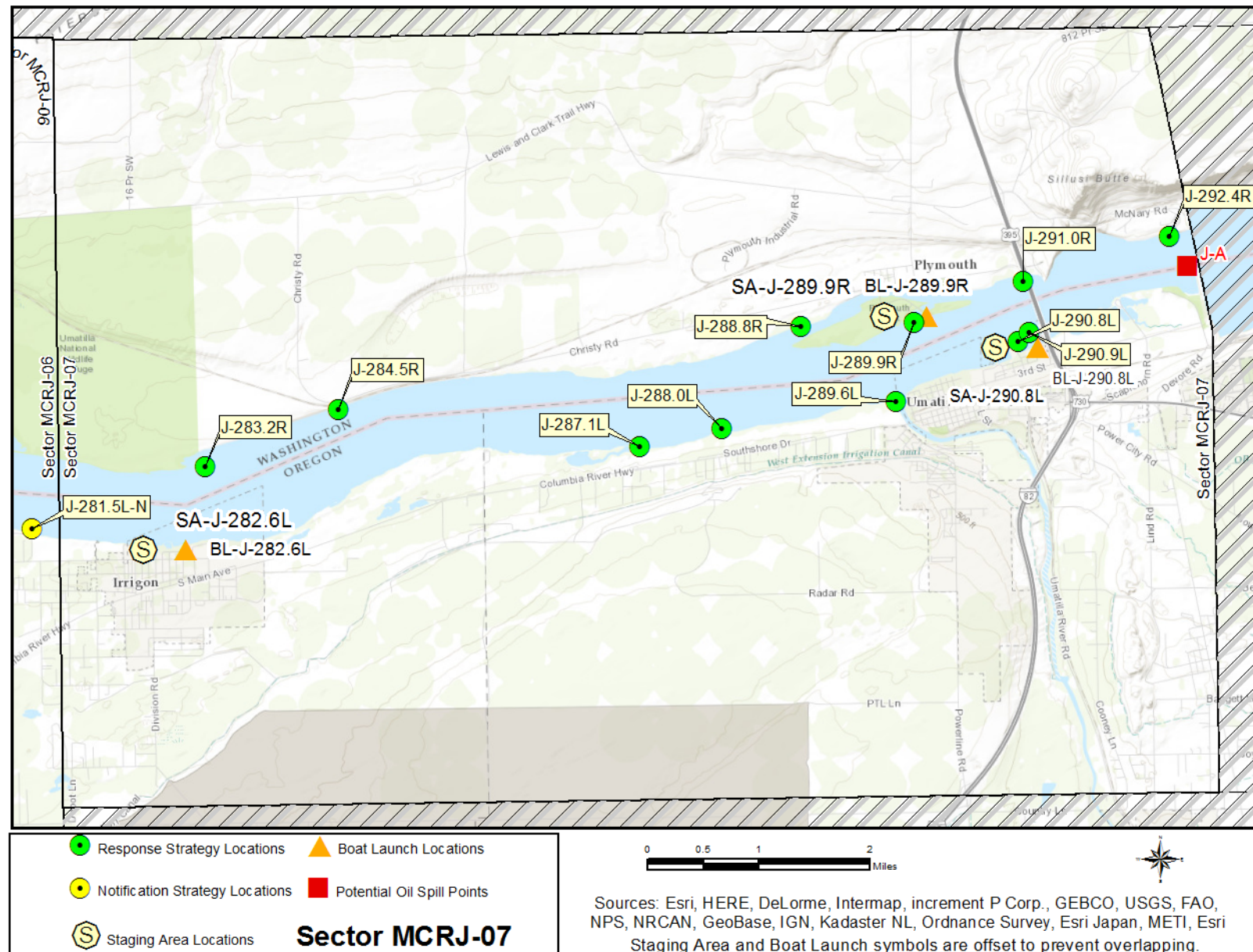








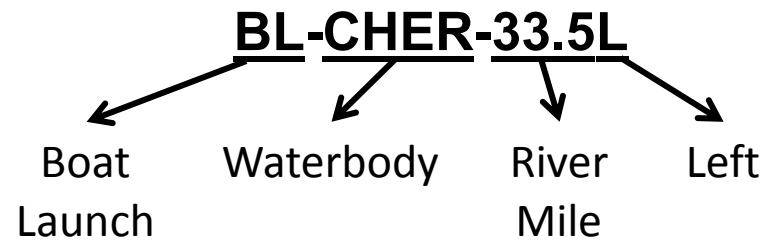




## 4.5 MATRICES

### 4.5.1 Naming Conventions (Short Names)

Each strategy, staging area, and boat launch location in this document has been given a unique “Short Name” which includes one to six letters denoting the associated waterbody. Following the letters are numbers that specify the location. On rivers or other linear waterbodies, the location is named by river mile: the distance from the mouth of the river or creek upstream to the site location. Some short names indicate whether the site is located on river right, river left, or mid-river by an “R”, “L” or “M” after the river mile. On lakes, the numbers indicate the location by shoreline mile, typically starting at the northernmost point and increasing clockwise around the lake. In marine areas, the numbers do not have a geographic meaning. Notification strategies are indicated by an “-N” at the end of the name. Staging Areas and Boat Launches are indicated by the prefix “SA” or “BL”.



Associated river body short name designations used within the Middle Columbia include:

D=The Dalles Pool  
 J=John Day Pool  
 M=McNary Pool  
 JDR=John Day River

N = Notification Strategy  
 SA = Staging Area  
 BL = Boat Launch

L = River Left  
 R = River Right  
 M = River Middle

## 4.5.2 Response Strategy Matrices

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-216.55R</a>	John Day Dam Locks 45.71990 -120.69606	Collection	Boom 1000ft	Yes	Onsite Can stage some equipment onsite with dam access, otherwise use <a href="#">SA-J-216.5R</a> / Railroad Island Park	Lock and Dam	Must pre-notify the John Day Dam control room (541) 298-9712 for access to the dam	51	85
<a href="#">J-217.1R</a>	Entrance to Lake Umatilla 45.72606 -120.69026	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-J-216.5R</a> / Railroad Island	Public Recreation Site/Area, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations	Launch from <a href="#">BL-J-216.5R</a> / Railroad Island	51	87
<a href="#">J-219.1L</a>	John Day River 45.73162 -120.64891	Exclusion	Boom 1200ft	Yes	Remote Stage at <a href="#">SA-JDR-0.2L</a> / Le Page Park	Resident Warmwater Fish, Salmonid Concentrations and Habitat, Sensitive Resources Nearby, Shorebird Concentrations, Wintering Waterfowl	Launch at <a href="#">BL-JDR-0.2L</a> / Le Page Park	51	89
<a href="#">J-220.7R</a>	Towal Road (FBS MP-124.5) 45.75094 -120.62409	Collection	Boom 1000ft	Yes	Onsite Stage recovery equipment onsite, other equipment at boat launch at Le Page Park <a href="#">BL-JDR-0.2L</a>	Downstream Habitat, Freshwater Wildlife, Sensitive Resources Nearby	Launch on the opposite side of the river at <a href="#">BL-JDR-0.2L</a> / Le Page	51	91

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-224.0R</a>	MP 116 Highway 14 (FBS MP-128.2) 45.74069 -120.55118	Collection	Boom 1000ft	Yes	Onsite Gravel road with large area for trucks, Vac truck and boom staged on site.	Downstream Habitat, Freshwater Wildlife, Sensitive Resources Nearby	Launch at <a href="#">BL-RC-1.3L</a> / Rock Creek	<a href="#">51</a>	<a href="#">93</a>
<a href="#">J-228.5R</a>	Two miles W of Rock Creek 45.70288 -120.48661	Collection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-RC-1.3L</a> / Rock Creek	Downstream Resources, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at <a href="#">BL-RC-1.3L</a> / Rock Creek	<a href="#">52</a>	<a href="#">95</a>
<a href="#">J-229.3L</a>	East of Quinton Canyon Road 45.68843 -120.47294	Collection	Boom 1000ft	Yes	Onsite Stage vac truck on site via private UPPR road.	Sensitive Resources Nearby, Waterfowl and Shorebird Concentrations	Launch boat on-site (alternate boat launch is Rock Creek <a href="#">BL-RC-1.3L</a> on the WA side)	<a href="#">52</a>	<a href="#">97</a>
<a href="#">J-230.2R</a>	Rock Creek/Paterson Slough 45.70333 -120.46148	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-RC-1.3L</a> / Rock Creek	Waterfowl and Salmonid Concentrations and Habitat	Launch at <a href="#">BL-RC-1.3L</a> / Rock Creek	<a href="#">52</a>	<a href="#">99</a>
<a href="#">J-231.6R</a>	MP 122.5 Highway 14 (FBS MP-135.2) 45.70418 -120.42858	Collection	Boom 1000ft	Yes	Onsite Can stage vac truck on site	Downstream Resources	Boat ramp from Rock Creek <a href="#">BL-RC-1.3L</a>	<a href="#">52</a>	<a href="#">101</a>
<a href="#">J-234.0R</a>	MP 125 Highway 14 45.70835 -120.38327	Collection	Boom 800ft	Yes	Onsite Gravel road with room for roadside parking	Downstream Resources	Launch on site at single gravel ramp	<a href="#">52</a>	<a href="#">103</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-234.1L</a>	Blalock Port Road 45.69657 -120.37074	Collection	Boom 1000ft	Yes	Onsite 350' x 50' Gravel staging area at primitive boat launch	Downstream Resources	Launch on site at primitive boat ramp. Ramp has been silted up, so care must be taken when launching.	<a href="#">52</a>	<a href="#">105</a>
<a href="#">J-237.6L</a>	Lang Canyon-High Water Only 45.71109 -120.30457	Exclusion	Boom 100ft	Yes	Remote Arlington Marina <a href="#">SA-J-242.5L</a>	Goose Wintering/Loafing Area, Public Recreation Site/Area, Salmonid Concentrations and Habitat, Sensitive Nesting Species, Sensitive Wetland Habitat	Launch boat from Arlington Marina <a href="#">BL-J-242.5L</a>	<a href="#">53</a>	<a href="#">107</a>
<a href="#">J-240.7L</a>	Jones Canyon 45.71641 -120.24520	Exclusion	Boom 100ft	Yes	Remote Arlington Marina <a href="#">SA-J-242.5L</a>	Sensitive Nesting Species, Shorebird Concentrations	Launch boat from Arlington Marina <a href="#">BL-J-242.5L</a>	<a href="#">53</a>	<a href="#">109</a>
<a href="#">J-242.3R</a>	Roosevelt Ferry 45.73184 -120.22023	Collection	Boom 1000ft	Yes	Onsite Roosevelt Park Recreation Area <a href="#">SA-J-241.7R</a>	Downstream Resources	Boat Launch on site <a href="#">BL-J-241.7R</a>	<a href="#">53</a>	<a href="#">111</a>
<a href="#">J-242.7L</a>	Arlington Grain Terminal 45.72385 -120.20403	Collection	Boom 500ft	Yes	Onsite Plenty of staging available on site.	Downstream Resources, Sensitive Resources Nearby	Launch boat from Arlington Marina <a href="#">BL-J-242.5L</a>	<a href="#">53</a>	<a href="#">113</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-244.4R</a>	Roosevelt South 45.74900 -120.19648	Exclusion	Boom 200ft	Yes	Onsite Can stage equipment on site.	Resident Warmwater Fish, Salmonid Concentrations and Habitat, Sensitive Resources	Boat ramp at Roosevelt Rec Area ( <a href="#">BL-J-241.7R</a> )	<a href="#">53</a>	<a href="#">115</a>
<a href="#">J-244.5R</a>	Roosevelt Central (FBS MP-147.3) 45.75019 -120.19458	Collection	Boom 1000ft	Yes	Onsite Can stage equipment on site at railyard.	Downstream Resources	Boat ramp at Arlington Marina ( <a href="#">BL-J-242.5L</a> ) or Roosevelt Rec Area ( <a href="#">BL-J-241.7R</a> ).	<a href="#">53</a>	<a href="#">117</a>
<a href="#">J-245.1R</a>	Roosevelt North 45.75849 -120.18615	Collection	Boom 800ft	Yes	Onsite Equipment can be staged onsite.	Downstream Resources	Launch boat from Roosevelt Rec Area ( <a href="#">BL-J-241.7R</a> ) or Arlington Marina.	<a href="#">53</a>	<a href="#">119</a>
<a href="#">J-250.3R</a>	Pine Creek-High Water 45.78947 -120.08513	Exclusion	Boom 200ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Salmonid Concentrations and Habitat, Sensitive Resources	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	<a href="#">54</a>	<a href="#">121</a>
<a href="#">J-255.2M</a>	MP 145.5 Highway 14 45.81783 -119.99962	Exclusion	Boom 1000ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	<a href="#">54</a>	<a href="#">123</a>
<a href="#">J-255.7R</a>	MP 146 Highway 14 45.82129 -119.99181	Exclusion	Boom 600ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	<a href="#">54</a>	<a href="#">125</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-256.5M</a>	Threemile Canyon West 45.81448 -119.97128	Exclusion	Boom 500ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	54	127
<a href="#">J-256.8M</a>	Threemile Canyon Central 45.81763 -119.96344	Deflection	Boom 700ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	54	129
<a href="#">J-257.3L</a>	Threemile Canyon East 45.81801 -119.95750	Exclusion	Boom 600ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	54	131
<a href="#">J-258.6R</a>	Alder Creek 45.83553 -119.92907	Exclusion	Boom 200ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R.</a>	Waterfowl and Salmonid Concentrations and Habitat	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	54	133
<a href="#">J-258.65R</a>	Just upstream of Alder Creek 45.83469 -119.92744	Collection	Boom 1000ft	Yes	Onsite Need to check bridge clearance on access road for a vac truck.	Waterfowl and Salmonid Concentrations and Habitat,	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	54	135

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-259.8L</a>	Sixmile Canyon 45.82119 -119.90349	Exclusion	Boom 500ft	Yes	Onsite Stage on site off Tower Rd, gravel road with off road parking by anchor point	Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	54	137
<a href="#">J-262.3M</a>	Crow Butte North Channel 45.84753 -119.86095	Exclusion	Boom 2000ft	Yes	Remote Crowe Butte Park <a href="#">SA-J-262.7R</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch boat from Crow Butte Park <a href="#">BL-J-262.7R</a>	55	139
<a href="#">J-262.5M</a>	Crow Butte Park West 45.84416 -119.85775	Deflection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-J-262.7R/</a> Crow Butte	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch from <a href="#">BL-J-262.7R/</a> Crow Butte	55	141
<a href="#">J-264.6R</a>	Crow Butte - Highway 14 MP 155.5 45.86596 -119.81733	Deflection	Boom 900ft	Yes	Remote Crow Butte Park/ <a href="#">SA-J-262.7R</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch boat from Crow Butte Park, <a href="#">BL-J-262.7R</a>	55	143



Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-264.8R</a>	Crow Butte Water Intake 45.86474 -119.80587	Exclusion	Boom 200ft	Yes	Onsite Can stage some equipment on site or at Crow Butte Park/ <a href="#">SA-J-262.7R</a>	Water Intakes	Launch boat from Crow Butte Park, <a href="#">BL-J-262.7R</a>	<a href="#">55</a>	<a href="#">145</a>
<a href="#">J-265.0M</a>	Eastern end of Crow Butte Island 45.85685 -119.80391	Deflection	Boom 1500ft	Yes	Remote Stage at <a href="#">SA-J-262.7R</a> / Crow Butte	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch at <a href="#">BL-J-262.7R</a> / Crow Butte	<a href="#">55</a>	<a href="#">147</a>
<a href="#">J-265.3R</a>	Collection point NE of Crow Butte 45.86401 -119.79632	Collection	Boom 1000ft	Yes	Onsite Must cross tracks and follow gravel road adjacent to tracks to staging area - use 4-wheel drive in bad weather	Downstream Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-J-262.7R</a> / Crow Butte	<a href="#">55</a>	<a href="#">149</a>
<a href="#">J-266.0R</a>	Whitcomb Shallow Water Habitat 45.86262 -119.78094	Exclusion	Boom 300ft	Yes	Remote Stage at <a href="#">SA-J-262.7R</a> / (Crow Butte Park)	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch at Crow Butte Park, <a href="#">BL-J-262.7R</a> .	<a href="#">55</a>	<a href="#">151</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-266.4R</a>	Whitcom Island 45.86024 -119.77602	Exclusion	Boom 800ft	Yes	Remote Stage at Crow Butte Park, <a href="#">SA-J-262.7R</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch boat from Crow Butte Park ( <a href="#">BL-J-262.7R</a> )	55	153
<a href="#">J-266.6R</a>	SE end of Whitcomb Island 45.85310 -119.75237	Deflection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-J-262.7R</a> / Crow Butte	Downstream Resources, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at <a href="#">BL-J-262.7R</a> / Crow Butte	55	155
<a href="#">J-269.3L</a>	Boardman Marina 45.84508 -119.71183	Exclusion	Boom 800ft	Yes	Onsite Stage at <a href="#">SA-J-269.5L</a> / Boardman Marina	Boat Basin/Marina	Launch at <a href="#">BL-J-269.5L</a> / Boardman Marina	55	157
<a href="#">J-269.9R</a>	Whitcomb Island East End- High Water 45.87732 -119.71550	Exclusion	Boom 200ft	Yes	Remote Stage equipment at <a href="#">SA-J-269.5L</a> / Boardman Marina	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch Boat at <a href="#">BL-J-269.5L</a> , Boardman Marina	55	159

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-270.2L</a>	Marine Dr NE Beach 45.85227 -119.68674	Deflection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-J-269.5L/</a> Boardman Marina	Economic Resource, Recreational Boating, Recreational Swimming Area, Sensitive Resources	Launch from <a href="#">BL-J-269.5L/</a> Boardman Marina	<a href="#">55</a>	<a href="#">161</a>
<a href="#">J-271.4L</a>	Utility Lane wetlands E of Port of Morrow 45.85147 -119.66794	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-J-269.5L/</a> Boardman Marina	Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat	<a href="#">BL-J-269.5L/</a> Boardman Marina	<a href="#">55</a>	<a href="#">163</a>
<a href="#">J-272.2R</a>	Highway 14, MP 161.5 45.88720 -119.69539	Collection	Boom 1000ft	Yes	Onsite Can stage some equipment on site, additional staging at Boardman Marine Park	Downstream Resources	Launch boat from Boardman Marina <a href="#">BL-J-269.5L</a>	<a href="#">55</a>	<a href="#">165</a>
<a href="#">J-273.2R</a>	Glade Creek 45.89259 -119.69115	Exclusion	Boom 1000ft	Yes	Onsite Some staging available onsite, additional staging at Boardman Marina.	Waterfowl and Salmonid Concentrations and Habitat	Launch boat from Boardman Marina <a href="#">BL-J-269.5L</a>	<a href="#">55</a>	<a href="#">167</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-274.85M</a>	Sand Island 45.89677 -119.63537	Deflection	Boom 1000ft	Yes	Remote Boardman Marina <a href="#">SA-J-269.5L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch Boat at Boardman Marina, <a href="#">BL-J-269.5L</a>	56	169
<a href="#">J-274.91M</a>	Long Walk Island 45.89451 -119.62731	Deflection	Boom 500ft	Yes	Remote Boardman Marina <a href="#">SA-J-269.5L</a>	Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat, Wildlife Refuge	Launch Boat at Boardman Marina <a href="#">BL-J-269.5L</a>	56	171
<a href="#">J-274.95M</a>	Sand Island Center Channel 45.89966 -119.64036	Exclusion	Boom 1000ft	Yes	Remote Boardman Marina <a href="#">SA-J-269.5L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Sensitive Resources, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch Boat at Boardman Marina, <a href="#">BL-J-269.5L</a>	56	173

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-275.0L</a>	South of McCormack Slough- High Water 45.89074 -119.61020	Exclusion	Boom 200ft	Yes	Remote Boardman Marina <a href="#">SA-J-269.5L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch Boat from Boardman Marina, <a href="#">BL-J-269.5L</a>	<a href="#">56</a>	<a href="#">175</a>
<a href="#">J-275.0R</a>	Highway 14, MP 164 45.91232 -119.65155	Deflection	Boom 1000ft	Yes	Remote Boardman Marina <a href="#">SA-J-269.5L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch boat at Boardman Marina, <a href="#">BL-J-269.5L</a>	<a href="#">56</a>	<a href="#">177</a>
<a href="#">J-275.5L</a>	McCormack Slough- High Water 45.89575 -119.60478	Exclusion	Boom 200ft	Yes	Remote Boardman Marina <a href="#">SA-J-269.5L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch boat at Boardman Marina, <a href="#">BL-J-269.5L</a>	<a href="#">56</a>	<a href="#">179</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-275.8R</a>	Abandoned RR trestle NW of Big Blalock Island 45.91854 -119.63589	Deflection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-J-282.6L</a> / Irrigon	Bald Eagle Nesting, Great Blue Heron Rookeries, National Wildlife Refuge, Shorebird Concentrations, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat	Launch from <a href="#">BL-J-282.6L</a> / Irrigon	56	181
<a href="#">J-275.9M</a>	Telegraph Island 45.91568 -119.62968	Deflection	Boom 700ft	Yes	Remote Irrigon Boat Ramp <a href="#">SA-J-282.6L</a>	Sensitive Nesting Species, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat, Wildlife Refuge	Boat access only, launch at Irrigon Boat Ramp, <a href="#">BL-J-282.6L</a>	56	183
<a href="#">J-277.3L</a>	Channel Northeast of Long Walk Island 45.91496 -119.59451	Exclusion	Boom 1500ft	Yes	Remote Irrigon boat ramp, Boardman Marina <a href="#">BL-J-282.6L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Boat Access Only, launch from Irrigon Boat Ramp, <a href="#">BL-J-282.6L</a>	56	185

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-277.7R</a>	Paterson Road 45.93274 -119.59272	Collection	Boom 1000ft	Yes	Onsite Stage on site at <a href="#">SA-J-277.7R</a> / Paterson Slough gravel parking lot, room to park vehicles with trailers, no facilities	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch on site at <a href="#">BL-J-277.7R</a> / Paterson Slough	56	187
<a href="#">J-278.9M</a>	Paterson Slough 45.92680 -119.56200	Deflection	Boom 1000ft	Yes	Remote Irrigon boat ramp	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge	Launch boat from Irrigon Boat Ramp, <a href="#">BL-J-282.6L</a>	56	189
<a href="#">J-283.2R</a>	West of Christy Road 45.91137 -119.48438	Deflection	Boom 1000ft	Yes	Remote Irrigon Boat Ramp <a href="#">SA-J-282.6L</a>	Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations	Launch boat from Irrigon boat ramp, <a href="#">BL-J-282.6L</a>	57	191
<a href="#">J-284.5R</a>	Christy Road (FBS MP-187.2) 45.91870 -119.45944	Collection	Boom 1000ft	Yes	Onsite Room for Vac Truck on site, additional staging at Irrigon or Umatilla boat launch.	Downstream Resources	Launch boat from Irrigon boat ramp, <a href="#">BL-J-282.6L</a>	57	193

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-287.1L</a>	Wilcox Lane 45.91327 -119.40292	Deflection	Boom 700ft	Yes	Remote Port of Umatilla or Plymouth Park	Resident Fish, Salmon Concentrations and Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Plymouth Park, <a href="#">BL-J-289.9R</a> or Port of Umatilla	<a href="#">57</a>	<a href="#">195</a>
<a href="#">J-288.0L</a>	Inlet to Umatilla Water Intake 45.91550 -119.38756	Exclusion	Boom 200ft	Yes	Onsite Water intake facility with lots of parking on gravel drive all the way to the anchor points	Downstream Resources, Water Intakes, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-J-290.8L/</a> Port of Umatilla	<a href="#">57</a>	<a href="#">197</a>
<a href="#">J-288.8R</a>	W end of Plymouth Park 45.92863 -119.37239	Exclusion	Boom 600ft	Yes	Remote Stage at <a href="#">SA-J-289.9R/</a> Plymouth Park	Bald Eagle, Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-J-289.9R/</a> Plymouth Park	<a href="#">57</a>	<a href="#">199</a>
<a href="#">J-289.6L</a>	Umatilla River 45.91868 -119.35485	Exclusion	Boom 800ft	Yes	Remote Stage at <a href="#">SA-J-290.8L/</a> Port of Umatilla	Resident Fish, Salmon Concentrations and Habitat, Sensitive Resources Nearby, Waterfowl and Shorebird Concentrations	Launch from <a href="#">BL-J-290.8L/</a> Port of Umatilla	<a href="#">57</a>	<a href="#">201</a>



Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-289.9R</a>	Plymouth Park Boat Launch 45.92897 -119.35109	Collection	Boom 1000ft	Yes	Onsite Stage on site at <a href="#">SA-J-289.9R</a> / Plymouth Park	Bald Eagle, Boat Launch/Ramp, Downstream Resources, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-J-289.9R</a> / Plymouth Park	<a href="#">57</a>	<a href="#">203</a>
<a href="#">J-290.8L</a>	Umatilla Marina 45.92628 -119.33167	Deflection	Boom 300ft	Yes	Onsite Stage at the Port of Umatilla Marina	Marina, Recreational Boating	Launch on site at the Umatilla Marina	<a href="#">57</a>	<a href="#">205</a>
<a href="#">J-290.9L</a>	Port of Umatilla Marina 45.92742 -119.32951	Collection	Boom 1100ft	Yes	Onsite Gravel parking close to the anchor point, plus all needed facilities at the Port of Umatilla Marina	Downstream Resources	Launch on site at the Port of Umatilla Marina, lots of room for staging and vac truck can easily access the shoreline at the collection point.	<a href="#">57</a>	<a href="#">207</a>
<a href="#">J-291.0R</a>	Plymouth Park East 45.93422 -119.33064	Deflection	Boom 1000ft	Yes	Remote Stage across the river at <a href="#">SA-J-290.8L</a> / Port of Umatilla, it is ~1/2 mile to the site, or at Plymouth Park	Bald Eagle, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetlands	Launch from <a href="#">BL-J-290.8L</a> / Port of Umatilla	<a href="#">57</a>	<a href="#">209</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-292.4R</a>	John Day Lock, downstream 45.93980 -119.30299	Collection	Boom 500ft	Yes	Onsite Contractors must call McNary Dam control at (541) 922-2231 to access site.	Downstream Resources, Lock and Dam	Launch from <a href="#">BL-J-290.8L</a> / Port of Umatilla	<a href="#">57</a>	<a href="#">211</a>
<a href="#">JDR-0.5L</a>	LePage Park campground (J-219.1L) 45.72561 -120.64827	Collection	Boom 1000ft	Yes	Onsite Stage at LePage Park campground	Downstream Resources, Public Recreation Site/Area, Shorebird Concentrations, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl	Launch downstream at <a href="#">BL-JDR-0.2L</a> / Le Page boat launch	<a href="#">51</a>	<a href="#">213</a>

## 4.5.3 Notification Strategy Matrices

Name	Location	Strategy Type	Resources at Risk	Implementation	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">J-216.5-N</a>	John Day Lock and Dam Notification 45.71546 -120.69252	Notification	Lock and Dam	Call Control Room Operator at the John Day Lock & Dam at 541-298-9712 and inform them of any significant oil spill or potential spill that threatens to impact their lock, spillway, or fish ladders, so they can take action to protect the resources under their control, including deploying any USACE protection strategies in the area, managing flow through the spillway, and adjusting the locks	Notify the John Day Lock & Dam so that they can take action to protect their lock and fish ladders	<a href="#">51</a>	<a href="#">217</a>
<a href="#">J-270.1L-N</a>	City of Boardman Public Works Department 45.84885 -119.69938	Notification	Public Health and Safety, Water Intakes	Determine if water intake/well need to be shut down.	Alert to need to monitor and potentially shut off transient, non-community well located less than 500 feet from river bank.	<a href="#">55</a>	<a href="#">219</a>
<a href="#">J-281.5L-N</a>	City of Irrigon Public Works 45.90362 -119.51712	Notification	Public Health and Safety, Water Intakes	May shut down intakes or wells	Alert to need to monitor and potentially shut off large municipal well located less than 500 feet from river bank.	<a href="#">56</a>	<a href="#">221</a>

## 4.5.4 Staging Area Matrices

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-J-216.5R</a>	USACE Railroad Island boat launch	45.72444 -120.69804	John Day Dam Road Goldendale, WA 98620	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-217.1R</a>	Lighted staging area with 2 concrete boat rams ~ 8 degree grade	<a href="#">51</a>	<a href="#">229</a>
<a href="#">SA-J-241.7R</a>	Roosevelt Park (USACE) boat launch	45.73105 -120.22470	Roosevelt Ferry Rd. Roosevelt, WA 99356	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-242.3R</a> , <a href="#">J-242.7L</a> , <a href="#">J-244.5R</a> , <a href="#">J-244.4R</a> , <a href="#">J-245.1R</a>	Lighted staging area with double boat ramp	<a href="#">53</a>	<a href="#">231</a>
<a href="#">SA-J-242.5L</a>	Arlington Point Marina and Campground	45.72279 -120.20633	Arlington Port Rd Port of Arlington, OR 97812	Port of Arlington Arlington Point Marina (boat launch) and Campground Port of Arlington, OR 97812 (541) 454-2868	<a href="#">J-237.6L</a> , <a href="#">J-240.7L</a>	Paved staging area, marina, campground and boat launch	<a href="#">53</a>	<a href="#">233</a>
<a href="#">SA-J-262.7R</a>	Crow Butte Park boat launch	45.85626 -119.85295	1 Butte Road Prosser, WA 99350	Washington State Parks and Recreation Commission Crow Butte State Park Paterson, WA 993454 (509) 875-2644	<a href="#">J-250.3R</a> , <a href="#">J-255.2M</a> , <a href="#">J-255.7R</a> , <a href="#">J-256.5M</a> , <a href="#">J-256.8M</a> , <a href="#">J-257.3L</a> , <a href="#">J-262.3M</a> , <a href="#">J-262.5M</a> , <a href="#">J-264.6R</a> , <a href="#">J-266.0R</a> , <a href="#">J-266.4R</a> , <a href="#">J-265.0M</a> , <a href="#">J-266.6R</a>	Lighted staging area with Marina, Campground and double boat launch, ramps have a 6.5 degree grade. This is a gated facility.	<a href="#">55</a>	<a href="#">235</a>

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-J-269.5L</a>	Boardman Marina and RV Park	45.84250 -119.71276	1 Marine Dr. NW Boardman, OR 97818	Boardman Parks and Recreation Boardman, OR 97818 (541) 481-721	<a href="#">J-269.3L</a> , <a href="#">J-269.9R</a> , <a href="#">J-270.2L</a> , <a href="#">J-271.4L</a> , <a href="#">J-272.2R</a> , <a href="#">J-273.2R</a> , <a href="#">J-274.85M</a> , <a href="#">J-274.91M</a> , <a href="#">J-274.95M</a> , <a href="#">J-275.0R</a> , <a href="#">J-275.0L</a>	Paved, lighted, staging area, launch, marina and RV park	<a href="#">55</a>	<a href="#">237</a>
<a href="#">SA-J-277.7R</a>	Paterson Boat Launch, Umatilla National Wildlife R	45.93358 -119.59269	48915 Kent Rd Paterson, WA 99345	US Fish and Wildlife Service, McNary and Umatilla National Wildlife Refuges Property Contact Burbank, WA 99323 (509) 546-8300	<a href="#">J-277.7R</a>	Dirt and gravel lot, no amenities	<a href="#">56</a>	<a href="#">239</a>
<a href="#">SA-J-282.6L</a>	Irrigon Marina Park	45.90065 -119.49213	NE 10th St. Irrigon, Irrigon, OR 97844	City of Irrigon-Marina Manager Irrigon, OR 97844 (541) 922-4933	<a href="#">J-275.8R</a> , <a href="#">J-275.9M</a> , <a href="#">J-277.3L</a> , <a href="#">J-278.9M</a> , <a href="#">J-283.2R</a> , <a href="#">J-284.5R</a>	Paved launch, marina, and picnic area, 85,000 sq. ft. of paved parking	<a href="#">57</a>	<a href="#">241</a>
<a href="#">SA-J-289.9R</a>	Plymouth Park boat launch	45.92974 -119.35274	Christy Rd Plymouth, WA 99346	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-287.1L</a> , <a href="#">J-288.8R</a> , <a href="#">J-289.9R</a>	Staging area with paved lot, campground and boat launch with 8 degree grade	<a href="#">57</a>	<a href="#">243</a>



Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-J-290.8L</a>	Umatilla Marina and RV Park	45.92555 -119.33198	1710 Quincy Avenue Umatilla, OR 97882	Port of Umatilla Umatilla, OR 97882 (541) 922-3939	<a href="#">J-289.6L</a> , <a href="#">J-290.8L</a> , <a href="#">J-290.9L</a> , <a href="#">J-291.0R</a>	Paved, 106,860 sq. ft. area with three ramps. Port of Umatilla manages (541) 922-3939, RV park and marina.	<a href="#">57</a>	<a href="#">245</a>
<a href="#">SA-JDR-0.2L</a>	LePage Park	45.72935 -120.65078	410 Beech St Arlington, OR 97812	LePage Park OR (541) 506-7819	<a href="#">J-219.1L</a> , <a href="#">JDR-0.5L</a> ,	Paved, lighted, 139,350 sq. ft.	<a href="#">51</a>	<a href="#">247</a>
<a href="#">SA-RC-1.3L</a>	Rock Creek Park boat launch	45.71954 -120.46133	Rock Creek Rd Roosevelt, WA 99356	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-230.2R</a>	Rock Creek feeds into the John Day Pool at river mile 230.2; staging area and boat launch with a 7 degree grade	<a href="#">52</a>	<a href="#">249</a>

## 4.5.5 Boat Launch Matrices

Name	Name	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-J-216.5R</a>	USACE Railroad Island boat launch	45.72444 -120.69804	John Day Dam Road Goldendale, WA 98620	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-216.55R</a> , <a href="#">J-217.1R</a>	Lighted staging area with 2 concrete boat rams ~ 8 degree grade	<a href="#">51</a>	<a href="#">253</a>
<a href="#">BL-J-241.7R</a>	Roosevelt Park (USACE) boat launch	45.73105 -120.22470	Roosevelt Ferry Rd. Roosevelt, WA 99356	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-242.3R</a> , <a href="#">J-244.4R</a> , <a href="#">J-244.5R</a> , <a href="#">J-245.1R</a>	Lighted staging area with double boat ramp	<a href="#">53</a>	<a href="#">255</a>
<a href="#">BL-J-242.5L</a>	Arlington Point Marina and Campground	45.72279 -120.20633	Arlington Port Rd Port of Arlington, OR 97812	Port of Arlington Arlington Point Marina (boat launch) and Campground Port of Arlington, OR 97812 (541) 454-2868	<a href="#">J-237.6L</a> , <a href="#">J-240.7L</a> , <a href="#">J-242.7L</a>	Paved staging area, marina, campground and boat launch	<a href="#">53</a>	<a href="#">257</a>

Name	Name	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-J-262.7R</a>	Crow Butte Park boat launch	45.85626 -119.85295	1 Butte Road Prosser, WA 99350	Washington State Parks and Recreation Commission Crow Butte State Park Paterson, WA 993454 (509) 875-2644	<a href="#">J-250.3R</a> , <a href="#">J-255.2M</a> , <a href="#">J-255.7R</a> , <a href="#">J-256.5M</a> , <a href="#">J-256.8M</a> , <a href="#">J-257.3L</a> , <a href="#">J-258.6R</a> , <a href="#">J-258.65R</a> , <a href="#">J-259.8L</a> , <a href="#">J-262.5M</a> , <a href="#">J-262.3M</a> , <a href="#">J-264.6R</a> , <a href="#">J-264.8R</a> , <a href="#">J-265.0M</a> , <a href="#">J-265.3R</a> , <a href="#">J-266.0R</a> , <a href="#">J-266.4R</a> , <a href="#">J-266.6R</a>	Lighted staging area with Marina, Campground and double boat launch, ramps with a 6.5 degree grade. This is a gated facility.	<a href="#">55</a>	<a href="#">259</a>
<a href="#">BL-J-269.5L</a>	Boardman Marina and RV Park	45.84250 -119.71276	1 Marine Dr. NW Boardman, OR 97818	Boardman Parks and Recreation Boardman, OR 97818 (541) 481-721	<a href="#">J-269.3L</a> , <a href="#">J-269.9R</a> , <a href="#">J-270.2L</a> , <a href="#">J-271.4L</a> , <a href="#">J-273.2R</a> , <a href="#">J-274.85M</a> , <a href="#">J-274.91M</a> , <a href="#">J-274.95M</a> , <a href="#">J-275.0L</a> , <a href="#">J-275.5L</a>	Two concrete ramps, 7.2 degree grade, paved lot, marina and RV park	<a href="#">55</a>	<a href="#">261</a>

Name	Name	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-J-277.7R</a>	Paterson Boat Launch, Umatilla National Wildlife R	45.93358 -119.59269	48915 Kent Rd Paterson, WA 99345	US Fish and Wildlife Service, McNary and Umatilla National Wildlife Refuges Property Contact Burbank, WA 99323 (509) 546-8300	<a href="#">J-277.7R</a>	Primitive ramp, dirt and gravel	<a href="#">56</a>	<a href="#">263</a>
<a href="#">BL-J-282.6L</a>	Irrigon Marina Park	45.90065 -119.49213	NE 10th St. Irrigon, Irrigon, OR 97844	City of Irrigon-Marina Manager Irrigon, OR 97844 (541) 922-4933	<a href="#">J-275.8R</a> , <a href="#">J-275.9M</a> , <a href="#">J-277.3L</a> , <a href="#">J-278.9M</a> , <a href="#">J-283.2R</a> , <a href="#">J-284.5R</a>	Two paved ramps, 85,000 sq. ft. of paved parking	<a href="#">57</a>	<a href="#">265</a>
<a href="#">BL-J-289.9R</a>	Plymouth Park boat launch	45.92974 -119.35274	Christy Rd Plymouth, WA 99346	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-287.1L</a> , <a href="#">J-288.8R</a> , <a href="#">J-289.9R</a> ,	Staging area with paved lot, campground and boat launch with 8 degree grade	<a href="#">57</a>	<a href="#">267</a>
<a href="#">BL-J-290.8L</a>	Umatilla Marina and RV Park	45.92555 -119.33198	1710 Quincy Avenue Umatilla, OR 97882	Port of Umatilla Umatilla, OR 97882 (541) 922-3939	<a href="#">J-288.0L</a> , <a href="#">J-289.6L</a> , <a href="#">J-290.8L</a> , <a href="#">J-290.9L</a> , <a href="#">J-291.0R</a> , <a href="#">J-292.4R</a>	Paved, 106,860 sq. ft. area with three ramps Port of Umatilla manages (541) 922-3939	<a href="#">57</a>	<a href="#">269</a>
<a href="#">BL-JDR-0.2L</a>	LePage Park	45.72935 -120.65078	410 Beech St Arlington, OR 97812	LePage Park OR (541) 506-7819	<a href="#">J-219.1L</a> , <a href="#">J-220.7R</a> , <a href="#">JDR-0.5L</a>	Three paved ramps with floating docks, \$3 fee, open all year	<a href="#">51</a>	<a href="#">271</a>

Name	Name	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-RC-1.3L</a>	Rock Creek Park boat launch	45.71954 -120.46133	Rock Creek Rd Roosevelt, WA 99356	USACE John Day pool Natural Resource Manager John Day Dam, OR (541) 506-4805	<a href="#">J-224.0R</a> , <a href="#">J-228.5R</a> , <a href="#">J-230.2R</a> , <a href="#">J-231.6R</a>	Rock Creek feeds into the John Day Pool at river mile 230.2; staging area and boat launch with a 7 degree grade	<a href="#">52</a>	<a href="#">273</a>



## **APPENDIX 4A**

### **Response Strategy 2-Pagers**

## RESPONSE STRATEGIES – LIST

J-216.55R	J-217.1R	J-219.1L	J-220.7R	J-224.0R
J-228.5R	J-229.3L	J-230.2R	J-231.6R	J-234.0R
J-234.1L	J-237.6L	J-240.7L	J-242.3R	J-242.7L
J-244.4R	J-244.5R	J-245.1R	J-250.3R	J-255.2M
J-255.7R	J-256.5M	J-256.8M	J-257.3L	J-258.6R
J-258.65R	J-259.8L	J-262.3M	J-262.5M	J-264.6R
J-264.8R	J-265.0M	J-265.3R	J-266.0R	J-266.4R
J-266.6R	J-269.3L	J-269.9R	J-270.2L	J-271.4L
J-272.2R	J-273.2R	J-274.85M	J-274.91M	J-274.95M
J-275.0L	J-275.0R	J-275.5L	J-275.8R	J-275.9M
J-277.3L	J-277.7R	J-278.9M	J-283.2R	J-284.5R
J-287.1L	J-288.0L	J-288.8R	J-289.6L	J-289.9R
J-290.8L	J-290.9L	J-291.0R	J-292.4R	JDR-0.5L

## John Day Dam Locks

**J-216.55R**

**Position - Location:** 45° 43.194', -120° 41.764' 45° 43' 11.6", -120° 41' 45.8" 45.71990, -120.69606 Goldendale

**Strategy Objective:** Collection : Collect oil within the lock

**Implementation:** Deploy 500' of boom (BM-1) from the N lock wall out toward the NE to divert oil moving downstream into the lock for collection. Deploy 500' of boom (BM-1) across the lock walls to keep oil from exiting the lock if the spill source is within, collect from the N lock wall. Coordinate with USACE staff on anchor points.

**Staging Area:** Onsite : Can stage some equipment onsite with dam access, otherwise use SA-J-216.5/Railroad Island Park

**Site Safety:** Slips, Trips, Falls, Water Hazard, heavy equipment, John Day Dam

**Field Notes:** Must pre-notify the John Day Dam control room 541-298-9712 for access to the dam

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Lock and Dam



### Recommended Equipment

5 Each	Anchor - Danforth (or other appropriate type)
3 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage (if collection)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

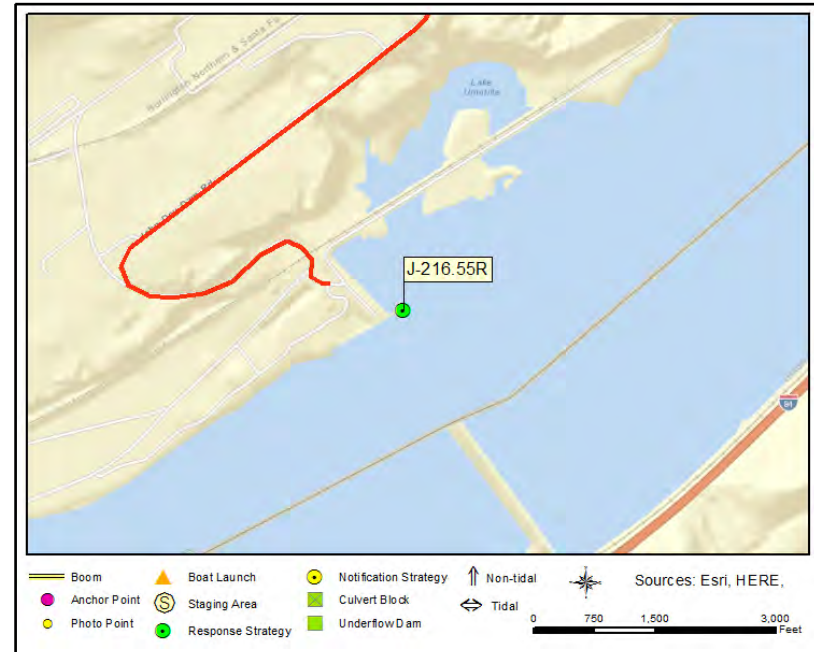
1 Boat Operator
4 Laborer
1 Supervisor

## John Day Dam Locks

J-216.55R



J-216.55R Photo: Aerial overview of locks.



## Site Contact

**USACE John Day Control Room**

Primary Contact : Emergency contact & access to dam  
541-298-9712

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

## Nearest Address

John Day Dam Road  
Goldendale, WA 98620

## Driving Directions

1. Directions to John Day Dam on the WA side. Starting at the intersection of WA Hwy-97 & WA Hwy-14, head east on WA-14 E toward Stonehenge Dr (6.9 mi)
2. Turn right onto John Day Dam Rd (2.0 mi)
3. Turn right to access the dam, or left toward the Railroad Island boat launch (0.3 mi)

## Entrance to Lake Umatilla

J-217.1R

**Position - Location:** 45° 43.564', -120° 41.416' 45° 43' 33.8", -120° 41' 24.9" 45.72606, -120.69026 Goldendale

**Strategy Objective:** Exclusion : Keep oil out of inlet that leads to impounded Lake Umatilla.

**Implementation:** Use 100' anchored to the NE side of the tunnel and run it out to the SW to anchor off-shore, thereby keeping the tunnel open for boat access. Block off inlet only if necessary as it allow use of the Railroad Island boat launch. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-216.5/Railroad Island

**Site Safety:** Steep Bank, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch from Railroad Island

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Public Recreation Site/Area, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations



## Recommended Equipment

2 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

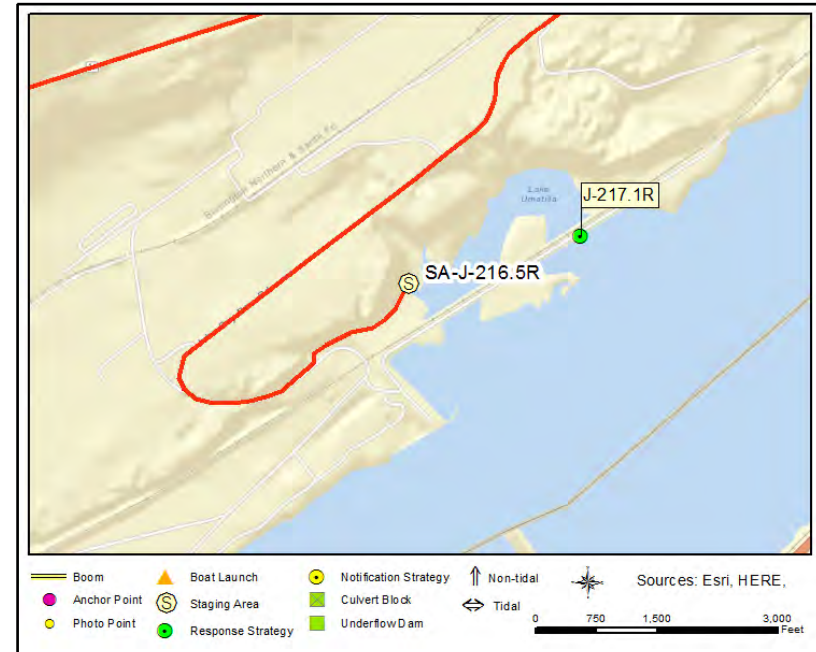


## Entrance to Lake Umatilla

J-217.1R



J-217.1R Photo: Culvert that should be boomed off.



## Site Contact

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

## Nearest Address

John Day Dam Road  
Goldendale, WA 98620

## Driving Directions

1. Directions to SA-J-216.5R/Railroad Island, starting at the intersection of WA Hwy-97 & WA Hwy-14, head east on WA-14 E toward Stonehenge Dr (6.9 mi)
2. Turn right onto John Day Dam Rd (2.0 mi)
3. Turn left toward Railroad Island boat launch (0.3 mi)

## John Day River

J-219.1L

**Position - Location:** 45° 43.897', -120° 38.935' 45° 43' 53.8", -120° 38' 56.1" 45.73162, -120.64891 Arlington

**Strategy Objective:** Exclusion : Keep oil from entering/exiting river mouth.

**Implementation:** Use 1200' of boom. Secure to 800' of boom to UPRR trestle on the NE shore and then anchor it to a piling midway to the SW shore. Anchor 400' of boom to the SW shore under the rr bridge and anchor it to the highway bridge upstream to the SE. Keep this formation to allow access to the boat launch as long as possible. Adjust angle of boom, quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-JDR-0.2L/Le Page Park

**Site Safety:** Steep Bank, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not allow

**Field Notes:** Launch at BL-JDR-0.2L/Le Page Park

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Warmwater Fish, Salmonid Concentrations and Habitat, Sensitive Resources Nearby, Shorebird Concentrations, Wintering



## Recommended Equipment

2 Each	Anchoring System(s)- Shoreside
1200 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

## John Day River

J-219.1L



J-219.1L Photo: Train trestle & Hwy bridge crossing the John Day River



## Site Contact

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

410 Beech St  
Arlington, OR 97812

## Driving Directions

1. Directions to SA-JDR-0.2L/LePage Park. Starting from Umitalla, OR 97882
2. Merge onto I-84 (64.6 mi)
5. Take exit 114 for LePage Park toward John Day River (0.2 mi)
6. Turn left onto Le Page Park Road, pass through the gate house (0.1 Mi)
7. Take the first left toward the boat launch. Destination will be at the end (0.1 mi)

**Towal Road (FBS MP-124.5)****J-220.7R**

**Position - Location:** 45° 45.056', -120° 37.445' 45° 45' 3.4", -120° 37' 26.7" 45.75094, -120.62409 Goldendale

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Anchor 1000' of boom to shore and angle up into the main part of the channel. Collect oil with a skimmer and vac truck on shore. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Stage recovery equipment onsite, other equipment at boat launch at Le Page Park BL-JDR-0.2L

**Site Safety:** Railroad Crossing, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch on the opposite side of the river at Le Page

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Habitat, Freshwater Wildlife, Sensitive Resources Nearby

**Recommended Equipment**

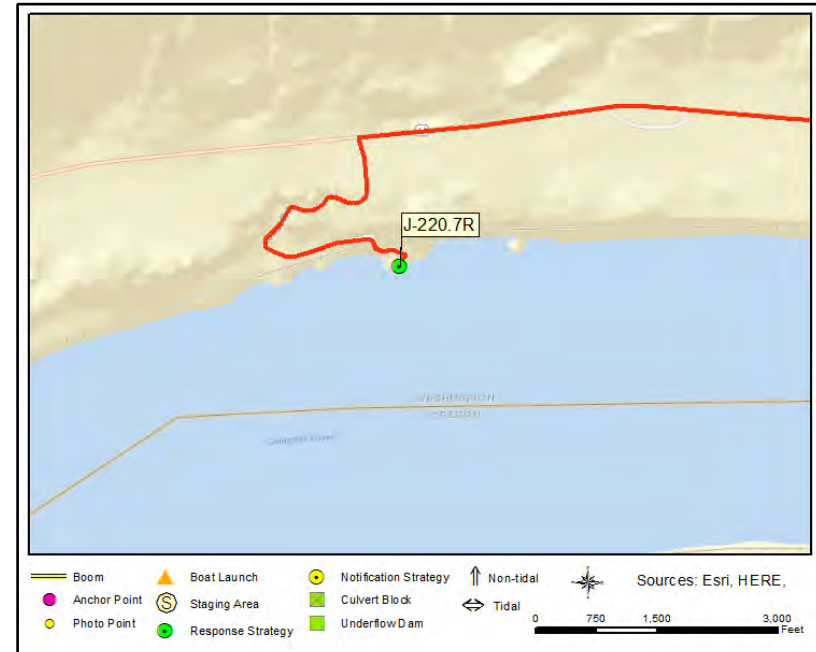
5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B3 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor

**Towal Road (FBS MP-124.5)****J-220.7R**

J-220.7R Photo: Looking upstream from the collection point.

**Site Contact****BNSF Railroad**

Primary Contact : Service Interruption Desk

WA

817-352-2832

**Nearest Address**57 Towal Road  
Goldendale, WA 98620**Driving Directions**

1. Directions to J-220.7R, starting at Plymouth, WA
2. Go west on S Plymouth Rd toward Christy Rd (0.03 miles)
3. Turn right at Christy Rd to stay on S Plymouth Rd (0.69 miles)
4. Turn left on WA-14 (68.14 miles)
5. Turn left on Towal Rd (0.39 miles)
6. Continue down across the railroad tracks to the collection spot by the river.



**MP 116 Highway 14 (FBS MP-128.2)****J-224.0R**

**Position - Location:** 45° 44.441', -120° 33.071' 45° 44' 26.5", -120° 33' 4.2" 45.74069, -120.55118 Roosevelt

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Anchor boom at shore and tow boom upstream SE of shore anchor. Adjust angle of boom, number and placement of anchors, according to conditions of the day.

**Staging Area:** Onsite : Gravel road with large area for trucks, Vac truck & boom staged on site.

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch from Rock Creek Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Habitat, Freshwater Wildlife, Sensitive Resources Nearby

**Recommended Equipment**

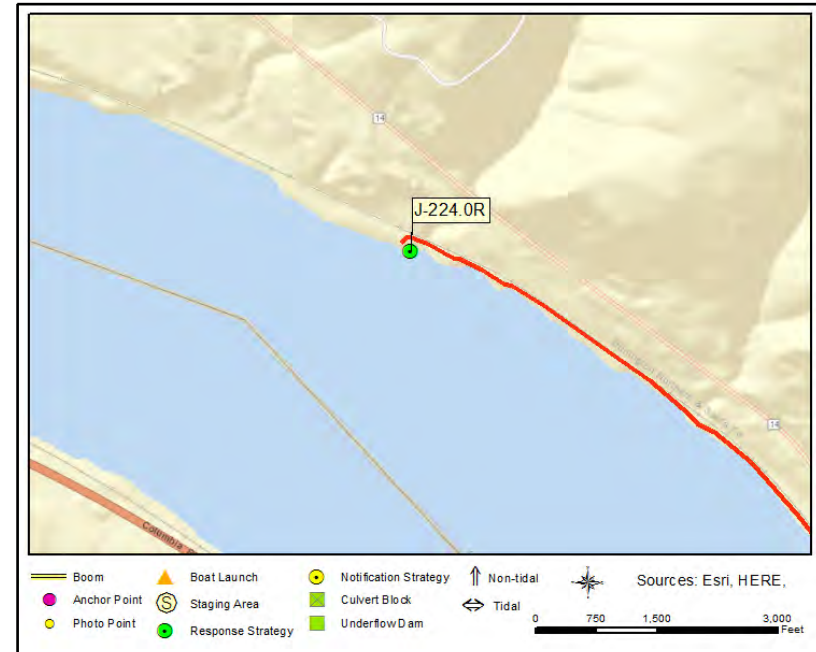
4 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage (if collection)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor

**MP 116 Highway 14 (FBS MP-128.2)****J-224.0R**

J-224.0R Photo: Aerial overview of collection location.

**Site Contact****BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

**Nearest Address**

11667 WA Highway 14  
Roosevelt, WA 99356

**Driving Directions**

1. Start at 13099 Highway 14 Roosevelt
2. Go west on WA-14 (Highway 14) (16.02 miles)
3. At approximately 11667 WA Highway 14, 99356, take a left on gravel road.
4. Cross the RR track and follow gravel road along the river until the collection point.

**Two miles W of Rock Creek****J-228.5R**

**Position - Location:** 45° 42.173', -120° 29.197' 45° 42' 10.4", -120° 29' 11.8" 45.70288, -120.48661 Roosevelt

**Strategy Objective:** Collection : Divert oil to shore for collection

**Implementation:** Anchor 1000' of boom on shore at 45.702852 N, -120.486648 W and run boom out to the SE, adjust angle of boom, placement & quantity of anchors according to conditions of the day. Can drive vac truck to waters edge.

**Staging Area:** Onsite : Gated, gravel road approx 0.8 miles upstream from SA-J-227.4R/SE of Goodnoe with a 35' x 80' open area to park

**Site Safety:** Gravel Roads, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not

**Field Notes:** Launch at Rock Creek Park boat launch

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Downstream Resources, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

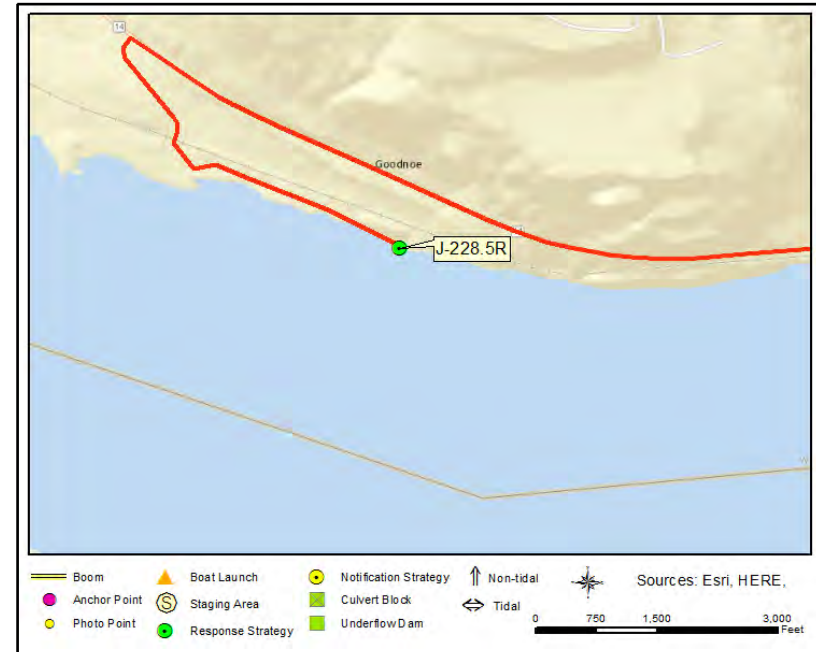
1 Boat Operator
4 Laborer
1 Supervisor

## Two miles W of Rock Creek

J-228.5R



J-228.5R Photo: Aerial view of shoreline 2 miles west of Rock Creek, site of J-228.5R collection strategy



## Site Contact

## USACE John Day pool

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

Hwy 14 and Goodhoe Station Rd  
Roosevelt, WA 99356

## Driving Directions

1. Start at 13099 Highway 14 Roosevelt
2. Go west on WA-14 (Highway 14) (8.24 miles)
3. After passing over Rock Creek/Paterson Slough look for a dirt access road on the left. Dirt road is between highway mile marker 119 and 120. Follow this dirt road down across the railroad tracks and turn left at the fork. Stay left at the second fork and site will be on the 1/2 mile ahead on the right (look for two large rocks on the right at the turn off for the site).



**East of Quinton Canyon Road****J-229.3L**

**Position - Location:** 45° 41.306', -120° 28.377' 45° 41' 18.3", -120° 28' 22.6" 45.68843, -120.47294 Arlington

**Strategy Objective:** Collection : Collect oil to prevent oil from moving further downriver.

**Implementation:** Use two 500' lengths of boom to cascade oil to the collection point. Land access via private UPPR road from Westbound I84. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage vac truck on site via private UPPR road.

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not

**Field Notes:** Launch boat onsite (alternate boat launch is Rock Creek BL-RC-1.3L on the WA side)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Sensitive Resources Nearby, Waterfowl and Shorebird Concentrations

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor



## East of Quinton Canyon Road

J-229.3L



J-229.3L Photo: Looking in towards the cove where oil should be collected and recovered



## Site Contact

**Union Pacific Railroad**  
Land/Property Owner :

WA  
888-877-7267

## Nearest Address

US 30  
Arlington, OR 97812

## Driving Directions

1. Directions to J-229.3L starting at 78898 Laurel Ln Boardman
2. Go north on Laurel Ln
3. Continue on Messner Rd
4. Turn left onto ramp and go on I-84 W for 41.1 miles
5. Look for a UPRR access road approximately 1 mile east of the strategy.
6. Take the gravel road W 0.8 miles to the primitive boat launch and collection area.

**Rock Creek/Paterson Slough****J-230.2R**

**Position - Location:** 45° 42.200', -120° 27.689' 45° 42' 12.0", -120° 27' 41.3" 45.70333, -120.46148 Roosevelt

**Strategy Objective:** Exclusion : Prevent oil from entering Rock Creek/Paterson Slough.

**Implementation:** Anchor 100' of boom in a chevron formation across mouth of Rock Creek /Paterson Slough. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day. Do not anchor boat in this area.

**Staging Area:** Remote : Stage at SA-RC-1.3L/Rock Creek

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not allow

**Field Notes:** Launch at BL-RC-1.3L/Rock Creek

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

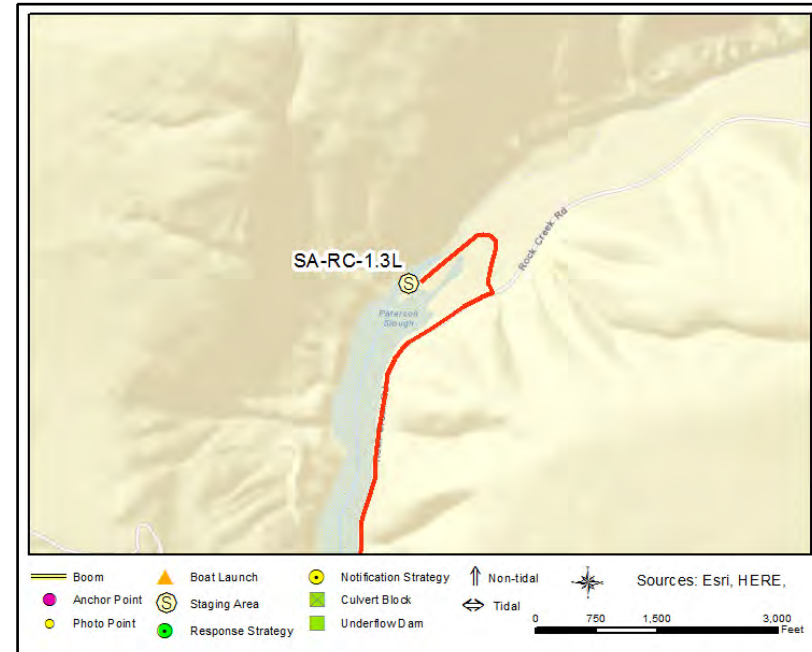
1	Boat Operator
1	Laborer
1	Supervisor

**Rock Creek/Paterson Slough****J-230.2R**

J-230.2R Photo: View of Rock Creek entering Columbia River taken from the bridge.

**Site Contact****Nearest Address**

Rock Creek Rd  
Roosevelt, WA 99356

**Driving Directions**

Directions to SA-RC-1.3L Rock Creek Boat Launch

1. From WA-97 head east on WA-14 toward Stonehenge Dr (19.7 mi)
2. Turn left on Rock Creek Rd (1.3 mi)
3. Take the first left into Rock Creek Park, road ends at boat launch (0.35 mi)

**MP 122.5 Highway 14 (FBS MP-135.2)****J-231.6R**

**Position - Location:** 45° 42.251', -120° 25.715' 45° 42' 15.0", -120° 25' 42.9" 45.70418, -120.42858 Roosevelt

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Anchor boom near shore and tow boom upstream to a point SE of shore anchor. Use a vac truck and skimmer to collect oil at the shore. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Can stage vac truck on site

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** J-231.6R. Launch at Rock Creek boat launchn

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

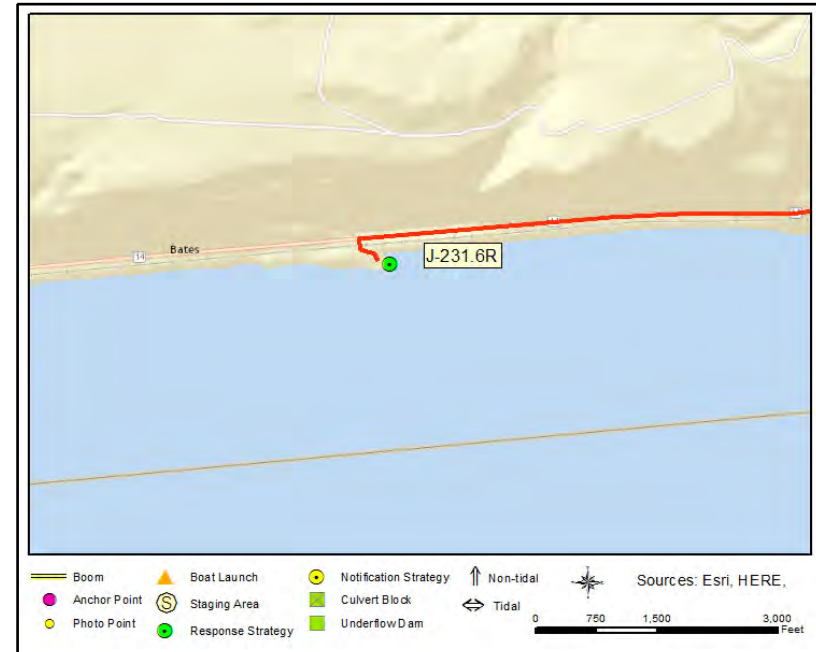
**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor



**MP 122.5 Highway 14 (FBS MP-135.2)****J-231.6R**

J-231.6R Photo: Aerial overview of collection area.

**Site Contact****BNSF Railroad**

Primary Contact : Service Interruption Desk

WA  
817-352-2832**Nearest Address**Highway 14, MP 122.5  
Roosevelt, WA 99356**Driving Directions**

1. Directions to J-231.6R; starting at 3 Railroad Ave Roosevelt
2. Go north on Railroad Ave (Roosevelt Elevator Rd) toward WA-14/Roosevelt Grade Rd (0.06 miles)
3. Turn left on WA-14 (Highway 14)
4. At approximately Highway 14, MP 122.5, there will be a gravel road that crosses the train tracks and leads down to the collection area.



**MP 125 Highway 14****J-234.0R**

**Position - Location:** 45° 42.501', -120° 22.996' 45° 42' 30.1", -120° 22' 59.8" 45.70835, -120.38327 Roosevelt

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Use 800' of boom to divert oil towards shore for collection. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Gravel road with room for roadside parking

**Site Safety:** Gravel road, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch on site at single gravel ramp

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

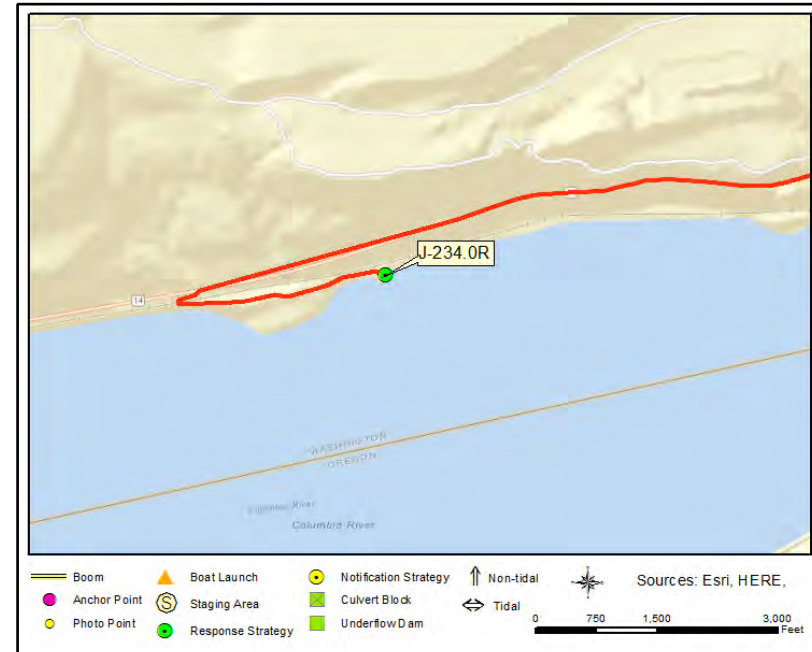
1 Boat Operator
4 Laborer
1 Supervisor

## MP 125 Highway 14

J-234.0R



J-234.0R Photo: View of primitive boat launch in the John Day pool, site of J-234R



## Site Contact

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

## Nearest Address

11011 Washington Hwy 14  
Roosevelt, WA 99356

## Driving Directions

1. Directions to J-234R. Starting at Interstate 82 and Hwy 14 Plymouth, WA 9946
2. Go north on S Plymouth Rd toward SE 3rd Ave (0.63 miles)
3. Turn left on WA-14 (55.04 miles)
4. Turn left onto gravel road located at 45.707761 N, -120.392327 W, cross the tracks and stay left at the fork. Finish at 11011 Washington Hwy 14, 99356.

**Blalock Port Road****J-234.1L**

**Position - Location:** 45° 41.794', -120° 22.244' 45° 41' 47.6", -120° 22' 14.6" 45.69657, -120.37074 Arlington

**Strategy Objective:** Collection : Collection

**Implementation:** Anchor 900' of boom to the NW side of the causeway and tow boom out to the NE to anchor off shore (trying to funnel oil into the impounded pond). Adjust angle of boom, quantity and placement of anchors according to conditions of the day. Anchor an additional 100' of boom inside the impounded pond at the SE corner of the causeway, tow it to the SW and anchor it on shore to divert oil to the collection point at the boat ramp.

**Staging Area:** Onsite : 350' x 50' Gravel staging area at primitive boat launch

**Site Safety:** Steep Bank by causeway, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction

**Field Notes:** Launch on site at primitive boat ramp. Ramp has been silted up, so care must be taken when launching.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
3 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

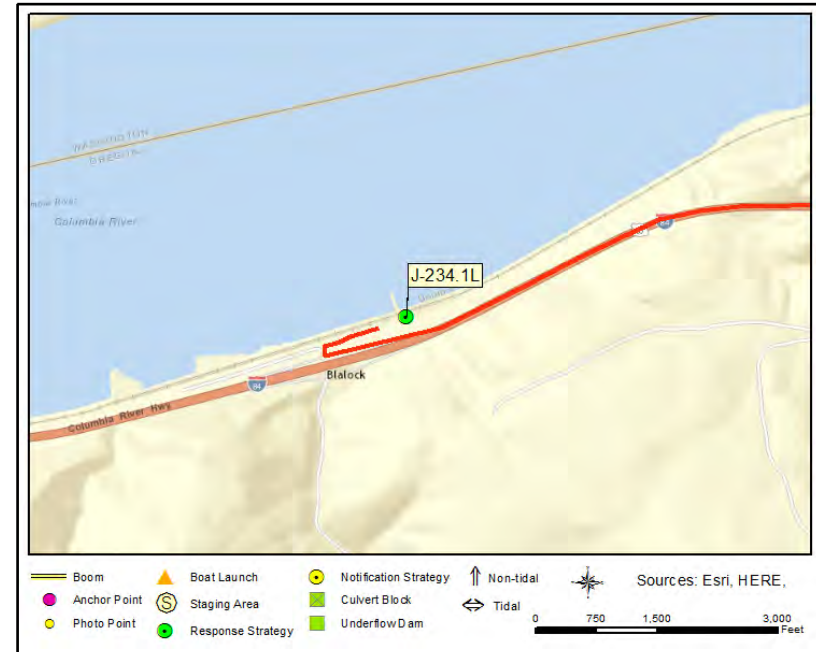
1 Boat Operator
4 Laborer
1 Supervisor

## Blalock Port Road

J-234.1L



J-234.1L Photo: Blalock Port Rd Primitive Boat Launch



## Site Contact

## Nearest Address

Blalock Port Road  
Arlington, OR 97812

## Driving Directions

1. Directions to J-234.1L, Blalock Port Rd in Arlington, OR, starting from U.S. 395 in Pasco, WA Continue on U.S. 395 to Kennewick 12.1 mi
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton 2.4 mi
3. Take exit 12A for US-395 S toward Kennewick Pendleton 0.7 mi
4. Continue onto US-395 S 1.8 mi
5. Get on I-82 E/US-395 S in Highland 6.4 mi
6. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) 5.2 mi
7. Keep left at the fork, follow signs for I-82 E/US-395 S/Pendleton/Umatilla and merge onto I-82 E/US-395 1.2 mi
8. Follow I-82 E and I-84 to Gilliam County. Take exit 129 from I-84 79.5 mi
9. Merge onto I-82 E/US-395 S 29.4 mi
10. Take the I-84 W exit toward Portland 0.5 mi
11. Merge onto I-84 49.2 mi
12. Take exit 129 toward Blalock Canyon 0.3 mi
13. Drive to Blalock Port Rd 0.1 mi
14. Turn right toward Blalock Port Rd 115 ft



**Lang Canyon-High Water Only****J-237.6L**

**Position - Location:** 45° 42.665', -120° 18.274' 45° 42' 39.9", -120° 18' 16.5" 45.71109, -120.30457 Port of Arlington

**Strategy Objective:** Exclusion : Prevent oil from entering pond.

**Implementation:** Use 100' of boom to prevent oil from entering the pond. May not be needed at low water as culvert is above lake level. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage equipment at SA-J-242.5L Arlington Point Marina & Campground

**Site Safety:** Steep Bank, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not allow

**Field Notes:** Launch at Arlington Point Marina & Campground. Boat access only for this strategy.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Goose Wintering/Loafing Area, Public Recreation Site/Area, Salmonid Concentrations and Habitat, Sensitive Nesting Species, Sensitive

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor



## Lang Canyon-High Water Only

J-237.6L



J-237.6L Photo: Two culverts that connect to the pond. Photo taken when the lake level was low.

## Site Contact

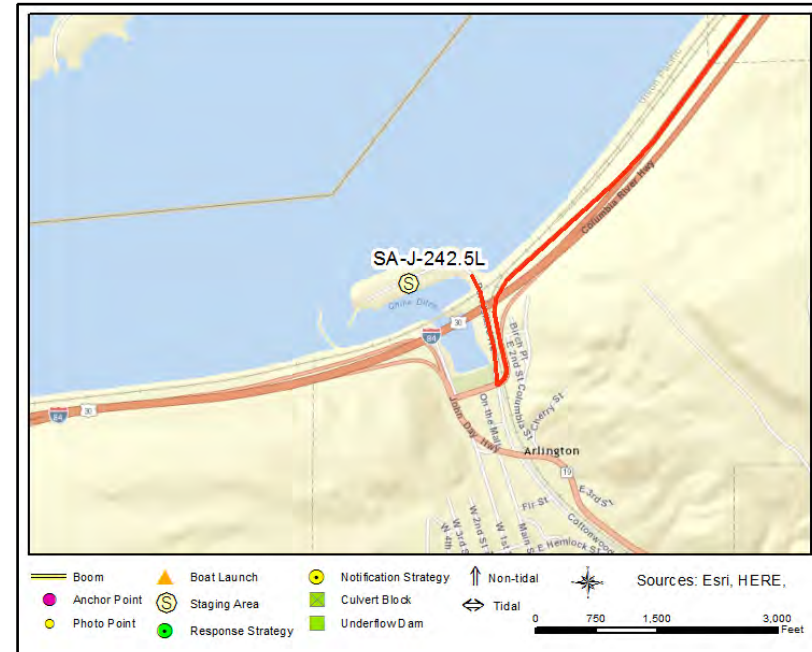
## USACE John Day pool

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

Arlington Port Rd  
Port of Arlington, OR 97812



## Driving Directions

## DIRECTIONS TO SA-J-242.5L ARLINGTON POINT MARINA &amp; CAMPGROUND

1. Head south from Pasco on US-395 S
2. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US395 S
- Continue to follow I-82 E Entering Oregon (30.6 mi)
3. Take the I-84 W exit toward Portland (0.5 mi)
4. Merge onto I-84 (40.5 mi)
5. Take exit 137 toward OR-19/ Arlington Condon (0.6 mi)
6. Continue onto Beech St (417 ft)
7. Turn right onto Arlington Port Rd - go to end of road on the left (0.4 mi)

## Jones Canyon

J-240.7L

**Position - Location:** 45° 42.985', -120° 14.712' 45° 42' 59.1", -120° 14' 42.7" 45.71641, -120.24520 Arlington

**Strategy Objective:** Exclusion : Keep oil from entering pond.

**Implementation:** Use 100' of boom, deploy in a chevron to keep oil from entering the pond. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Arlington Marina (SA-J-242.5L)

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not

**Field Notes:** Launch boat from Arlington Marina (BL-J-242.5L)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Sensitive Nesting Species, Shorebird Concentrations



## Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

## Jones Canyon

J-240.7L



J-240.7L Photo: Culvert connecting Columbia River to pond.



## Site Contact

## Nearest Address

Arlington Port Rd  
Port of Arlington, OR 97812

## Driving Directions

## Directions to Arlington Boat Launch

1. Start at US 395 Kennewick
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (30.59 miles)
6. Take ramp on the right and go on I-84 W toward Portland (41.07 miles)
7. At exit 137 take ramp on the right toward Arlington/OR-19/Condon (0.64 miles)
8. Continue on Beech St (0.09 miles)
9. Turn right on Arlington Port Rd (0.38 miles)
10. Finish at 98 Port Island Road, 97812, on the right

**Roosevelt Ferry****J-242.3R**

**Position - Location:** 45° 43.910', -120° 13.214' 45° 43' 54.6", -120° 13' 12.8" 45.73184, -120.22023 Roosevelt

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Use 1000' of boom to direct oil to the shoreline for collection. Need extra hose and pump to reach vacuum truck. Approximately 500' from skimmer spot to parking area. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Roosevelt Park Recreation Area (SA-J-241.7R)

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Boat Launch on site (BL-J-241.7R)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Each	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
4	Laborer
1	Supervisor

## Roosevelt Ferry

J-242.3R



J-242.3R Photo: Aerial photo of collection area.



## Site Contact

## Roosevelt Park Recreation Area

Land/Property Contact :

WA  
503-808-4514

## Nearest Address

Roosevelt Ferry Road  
Roosevelt, WA 99356

## Driving Directions

1. Start at US 395 Kennewick
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
6. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
7. Turn right on WA-14 (47.13 miles)
8. Turn left on Roosevelt Fry (Roosevelt Ferry Rd) (0.65 miles)
9. Finish at Roosevelt Ferry Road, 99356, on the left



**Arlington Grain Terminal****J-242.7L**

**Position - Location:** 45° 43.431', -120° 12.242' 45° 43' 25.8", -120° 12' 14.5" 45.72385, -120.20403 Arlington

**Strategy Objective:** Collection : Collect oil that is moving downstream, prevent oiling of grain terminal

**Implementation:** Use 500' of boom to deflect oil away from the grain terminal and into the natural collection area. Remove oil with skimmer and vac truck. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Plenty of staging available on site.

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not allow

**Field Notes:** Launch boat from Arlington Marina (BL-J-242.5L)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources, Sensitive Resources Nearby

**Recommended Equipment**

3 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
500 Each	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
3 Laborer
1 Supervisor

## Arlington Grain Terminal

J-242.7L



J-242.7L Photo: View of collection area from shore.



## Site Contact

## Nearest Address

160 Port Island Road  
Arlington, OR 97812

## Driving Directions

1. Start at US 395 Kennewick
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (30.59 miles)
6. Take ramp on the right and go on I-84 W toward Portland (41.07 miles)
7. At exit 137 take ramp on the right toward Arlington/OR-19/Condon (0.64 miles)
8. Continue on Beech St (0.09 miles)
9. Turn right on Arlington Port Rd (0.28 miles)
10. Finish at 160 Port Island Road, 97812, on the left

## Roosevelt South

J-244.4R

**Position - Location:** 45° 44.940', -120° 11.789' 45° 44' 56.4", -120° 11' 47.3" 45.74900, -120.19648 Roosevelt

**Strategy Objective:** Exclusion : Prevent oil from entering shallow water habitat.

**Implementation:** Use 200' of boom to close off shallow water habitat. Adjust angle of boom, placement & number of anchors according to conditions of the day.

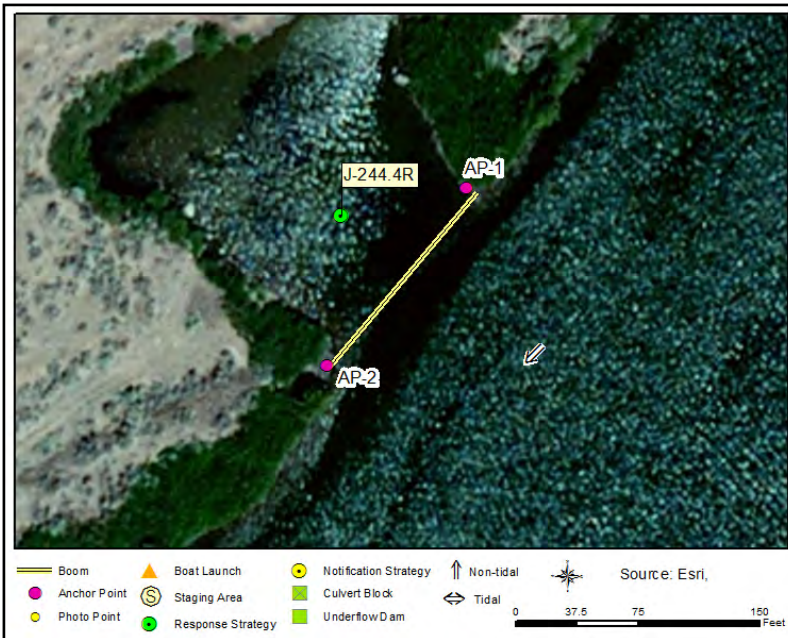
**Staging Area:** Onsite : Can stage equipment on site.

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not

**Field Notes:** Boat ramp at Roosevelt Rec Area (BL-J-241.7R)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Warmwater Fish, Salmonid Concentrations and Habitat, Sensitive Resources



## Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

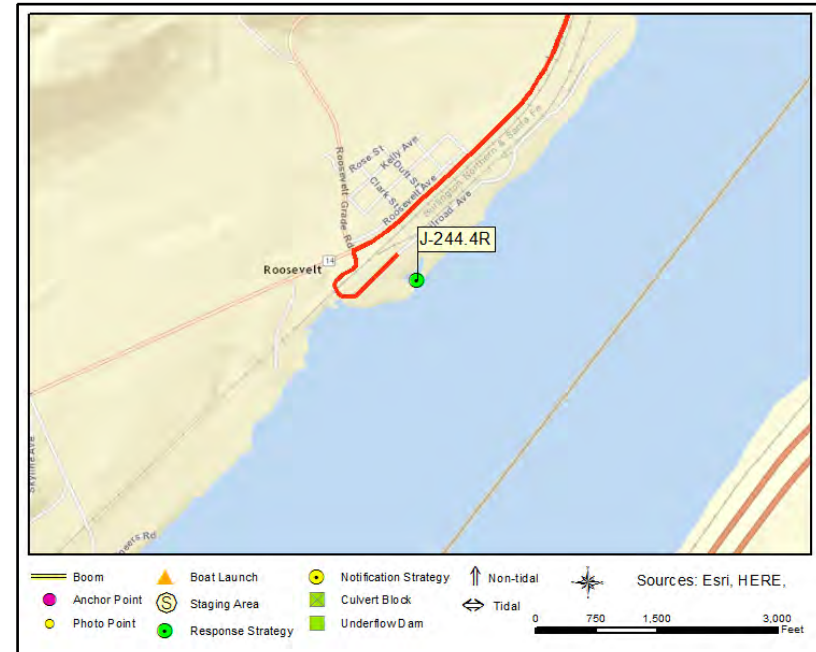
1	Boat Operator
1	Laborer
1	Supervisor

## Roosevelt South

J-244.4R



J-244.4R Photo: Aerial overview of shallow water habitat.



## Site Contact

## Nearest Address

25 Railroad Avenue  
Roosevelt, WA 99356

## Driving Directions

1. Start at US 395 Kennewick
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
6. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
7. Turn right on WA-14 (46.3 miles)
8. Turn left on Railroad Ave (Roosevelt Elevator Rd) (0.31 miles)
9. Finish at 25 Railroad Avenue, 99356, on the left



**Roosevelt Central (FBS MP-147.3)****J-244.5R**

**Position - Location:** 45° 45.011', -120° 11.675' 45° 45' .6", -120° 11' 40.5" 45.75018, -120.19458 Roosevelt

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Deploy 1000' of boom to direct oil to shore for collection. Access is through BNSF railyard, contact them first before entering. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Can stage equipment on site at railyard.

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at Roosevelt Park (USACE) boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

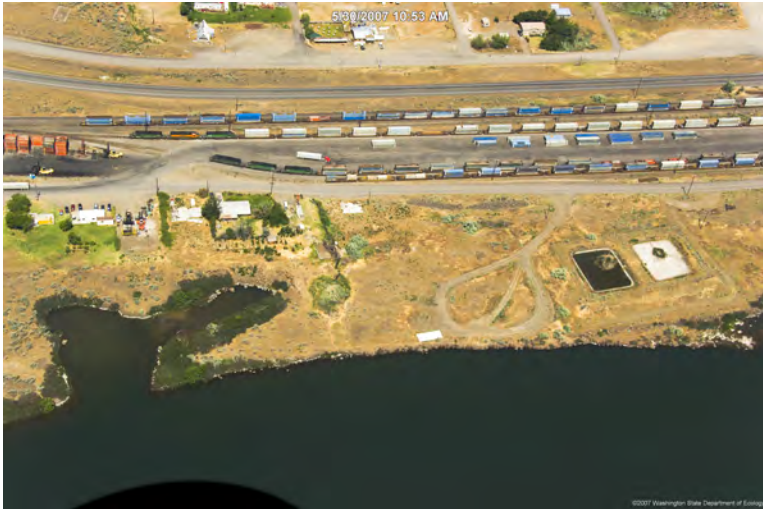
**Recommended Equipment**

4 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1000 Each	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

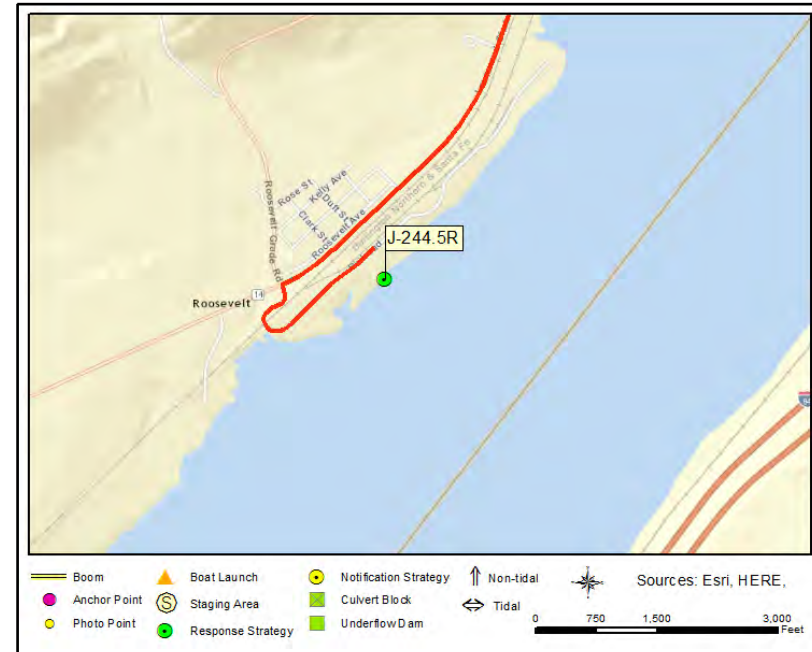
**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor



**Roosevelt Central (FBS MP-147.3)****J-244.5R**

J-244.5R Photo: Aerial overview of collection area.

**Site Contact****BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

**Nearest Address**

39 Railroad Ave  
Roosevelt, WA 99356

**Driving Directions**

1. Start at US 395 Kennewick
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
6. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
7. Turn right on WA-14 (46.3 miles)
8. Turn left on Railroad Ave (Roosevelt Elevator Rd) (0.46 miles)
9. Finish at 39 Railroad Ave, 99356, on the left

**Roosevelt North****J-245.1R**

**Position - Location:** 45° 45.509', -120° 11.169' 45° 45' 30.6", -120° 11' 10.1" 45.75849, -120.18615 Roosevelt

**Strategy Objective:** Collection : Collect oil that is moving downstream.

**Implementation:** Use 800' of boom to divert oil into natural collection area. Use vac truck to remove oil. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Equipment can be staged onsite.

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch boat from Roosevelt Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Each	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
4	Laborer
1	Supervisor

## Roosevelt North

J-245.1R



J-245.1R Photo: Aerial overview of collection area.



## Site Contact

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

## Nearest Address

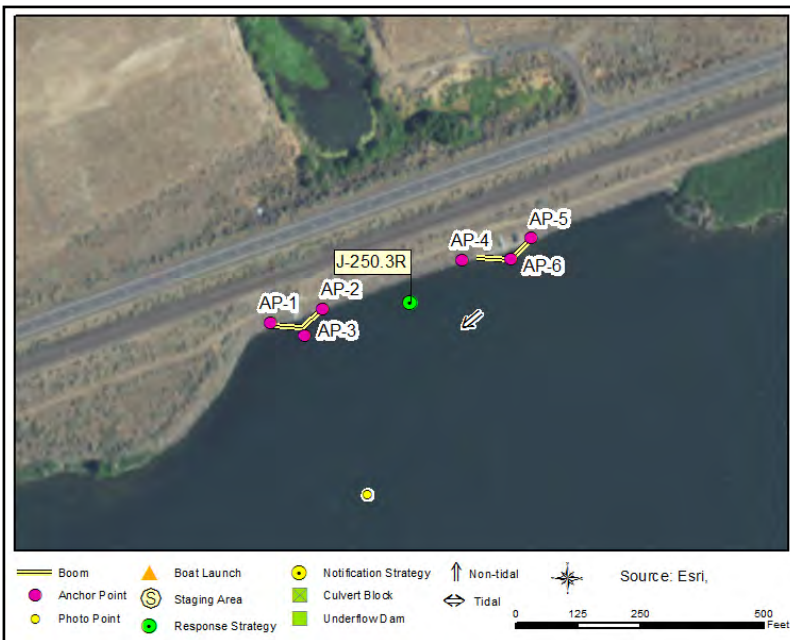
99 Railroad Avenue  
Roosevelt, WA 99356

## Driving Directions

1. Start at US 395 Kennewick
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
6. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
7. Turn right on WA-14 (46.3 miles)
8. Turn left on Railroad Ave (Roosevelt Elevator Rd) (1.07 miles)
9. Finish at 99 Railroad Avenue, 99356, on the left

**J-250.3R**

**Resources at Risk:** Salmonid Concentrations and Habitat, Sensitive Resources



2	Each	Anchor - Danforth (or other appropriate type)
4	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

1	Boat Operator
2	Laborer
1	Supervisor

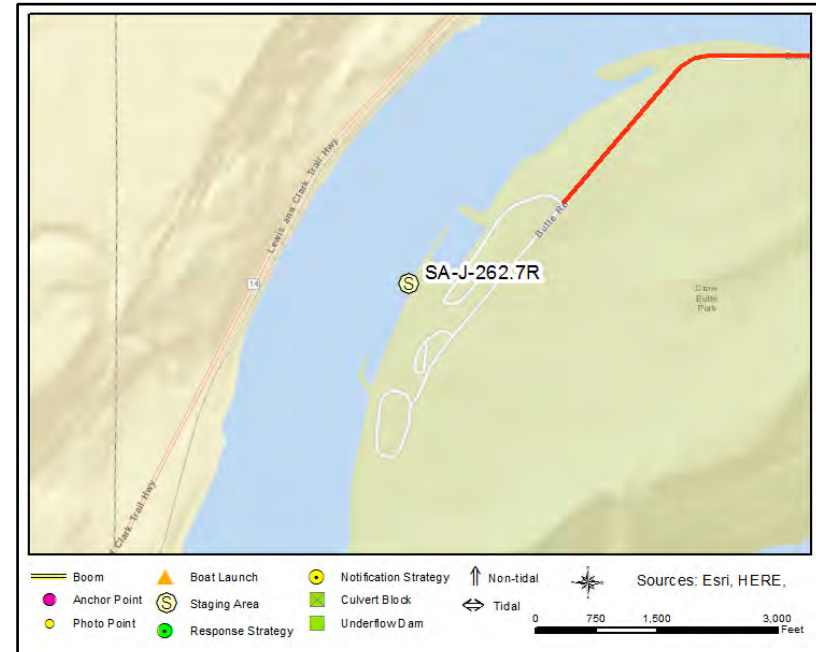


## Pine Creek-High Water

J-250.3R



J-250.3R Photo: Aerial overview of culverts and Pine Creek



## Site Contact

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

## DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)



**MP 145.5 Highway 14****J-255.2M**

**Position - Location:** 45° 49.070', -119° 59.977' 45° 49' 4.2", -119° 59' 58.6" 45.81783, -119.99962 Prosser

**Strategy Objective:** Exclusion : Protect shallow water environment from oil.

**Implementation:** Use 1000' of boom deployed in a chevron. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-262.7R Crow Butte Park

**Site Safety:** Large Underwater Boulders, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either

**Field Notes:** Launch boat at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

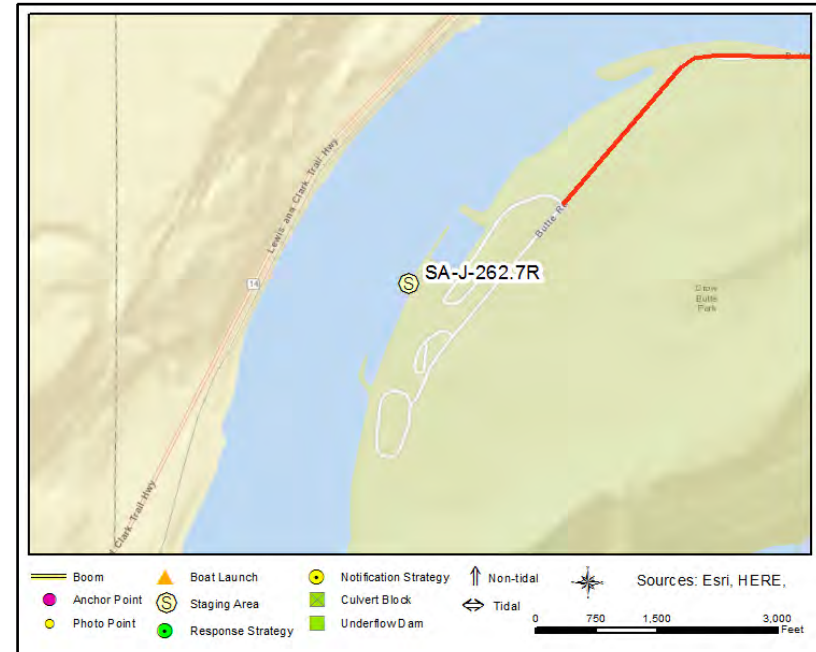
1	Boat Operator
2	Laborer
1	Supervisor

## MP 145.5 Highway 14

J-255.2M



J-255.2M Photo: Aerial photo giving an overview of islands and shoreline habitat to be protected.



## Site Contact

## USACE John Day pool

Land/Property Contact : Natural Resource Manager  
541-506-4805

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

## DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

**MP 146 Highway 14****J-255.7R**

**Position - Location:** 45° 49.277', -119° 59.509' 45° 49' 16.6", -119° 59' 30.5" 45.82129, -119.99181 Prosser

**Strategy Objective:** Exclusion : Prevent oil from entering shallow water habitat behind the island.

**Implementation:** Use 600' of boom to close gap between shore and island and one gap in the island. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : SA-J-262.7R Crow Butte Park boat launch

**Site Safety:** Large Underwater Boulders, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either

**Field Notes:** Launch boat at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

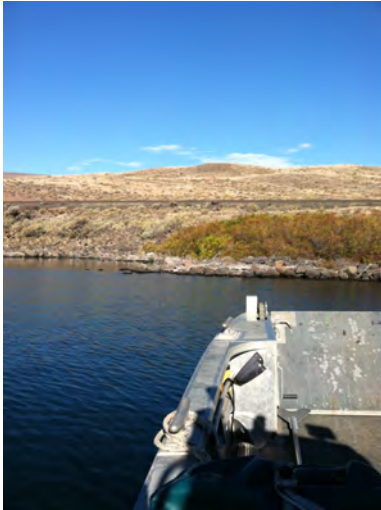
**Resources at Risk:** Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations

**Recommended Equipment**

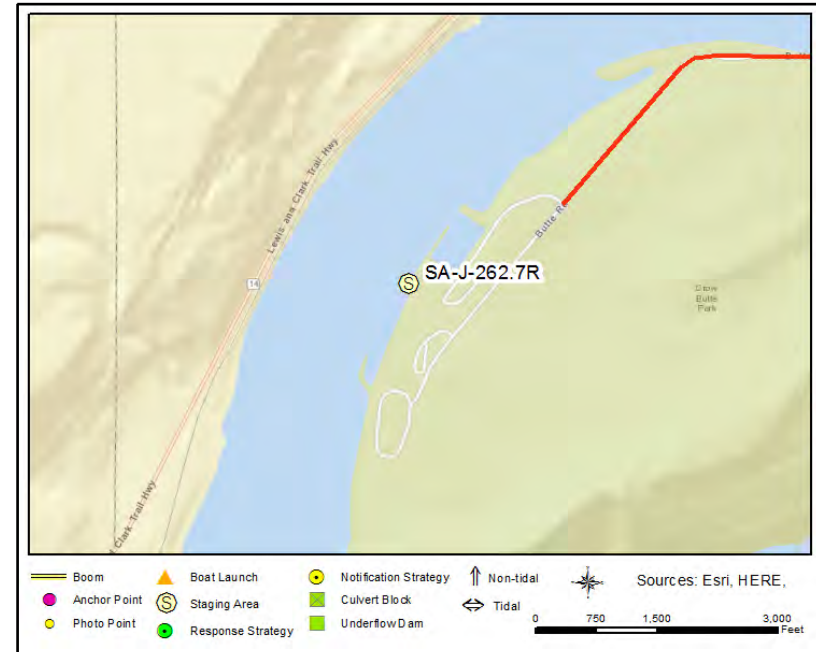
1 Each	Anchor - Danforth (or other appropriate type)
4 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

**MP 146 Highway 14****J-255.7R**

J-255.7R Photo: Northern anchor area.

**Site Contact****USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

**Nearest Address**

1 Butte Road  
Prosser, WA 99350

**Driving Directions****DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK**

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

**Threemile Canyon West****J-256.5M**

**Position - Location:** 45° 48.869', -119° 58.277' 45° 48' 52.1", -119° 58' 16.6" 45.81448, -119.97128 Prosser

**Strategy Objective:** Exclusion : Keep oil out of Threemile Canyon

**Implementation:** 500' of boom that could be used as a deflection or exclusion strategy. Using as deflection would keep access open to the boat ramp. Can be deployed with a skiff if using the local ramp. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-262.7R Crow Butte Park

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water, Large underwater boulders.

**Field Notes:** Launch boat at Crow Butte boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
500	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

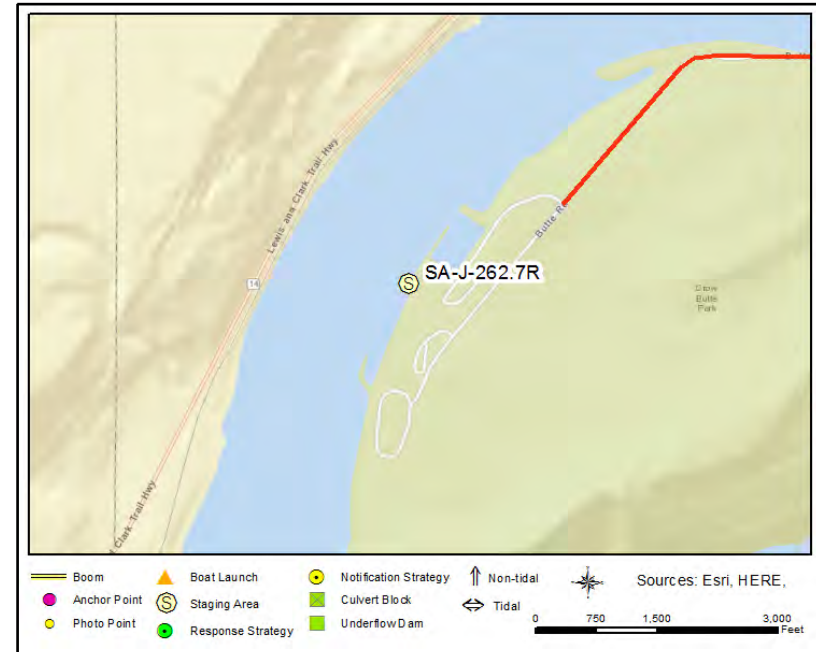


## Threemile Canyon West

J-256.5M



J-256.5M Photo: Shoreline anchor area.



### Site Contact

#### USACE John Day pool

Land/Property Contact : Natural Resource Manager  
541-506-4805

### Nearest Address

1 Butte Road  
Prosser, WA 99350

### Driving Directions

#### DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

**Threemile Canyon Central****J-256.8M**

**Position - Location:** 45° 49.058', -119° 57.806' 45° 49' 3.5", -119° 57' 48.4" 45.81763, -119.96344 Prosser

**Strategy Objective:** Deflection : Prevent oil from entering Threemile Canyon inlet.

**Implementation:** 700' of boom should be used. Small skiff could be used if deployed from Quesna County Park ramp. Adjust quantity and placement of anchors based on conditions of the day.

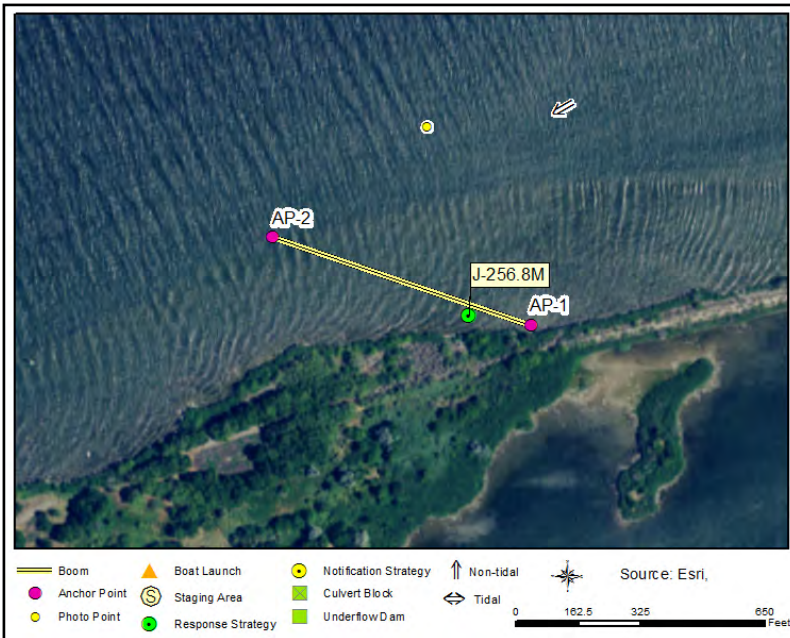
**Staging Area:** Remote : Stage at SA-J-262.7R Crow Butte Park

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water, Large underwater rocks.

**Field Notes:** Launch boat at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
700	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

## Threemile Canyon Central

J-256.8M



J-256.8M Photo: Overview of shoreline where the strategy is located.

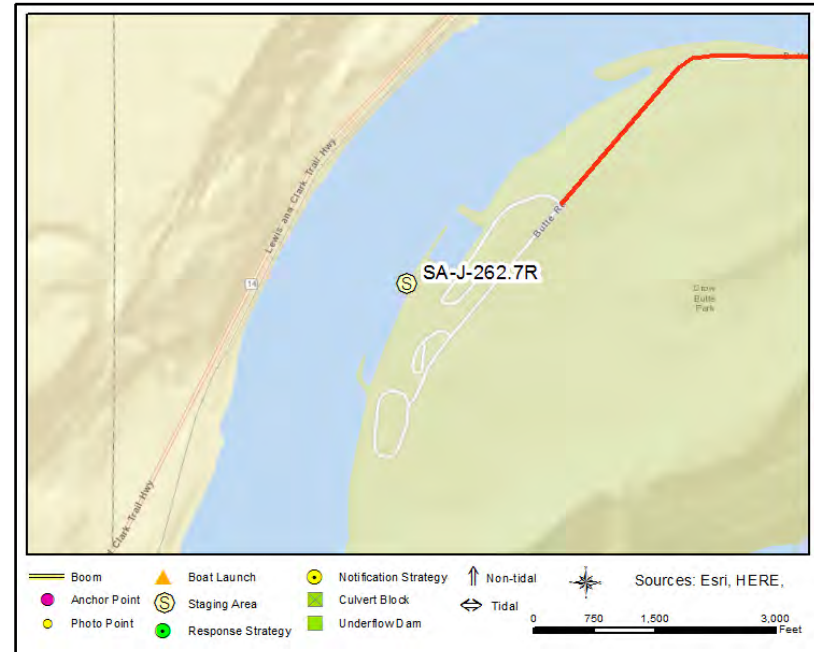
### Site Contact

#### USACE John Day pool

Land/Property Contact : Natural Resource Manager  
541-506-4805

### Nearest Address

1 Butte Road  
Prosser, WA 99350



### Driving Directions

#### DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

## Threemile Canyon East

J-257.3L

**Position - Location:** 45° 49.081', -119° 57.449' 45° 49' 4.8", -119° 57' 27.0" 45.81801, -119.95749 Prosser

**Strategy Objective:** Exclusion : Keep oil out of Threemile Canyon

**Implementation:** Deploy 600' of boom in a chevron to exclude oil from the eastern most entrance to Threemile Canyon. Adjust quantity and placement of anchors based on conditions of the day.

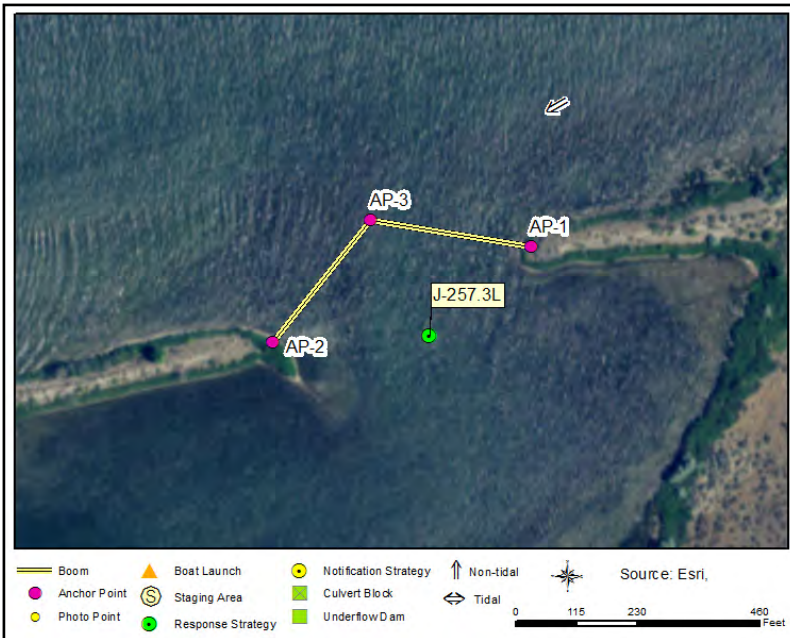
**Staging Area:** Remote : Stage at SA-J-262.7R Crow Butte Park

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water.

**Field Notes:** Launch boat at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Colonial Nesting Birds, Salmonid Concentrations and Habitat, Shallow Water Habitat, Waterfowl Concentrations



### Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
600	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

## Threemile Canyon East

J-257.3L



J-257.3L Photo: Eastern anchor location

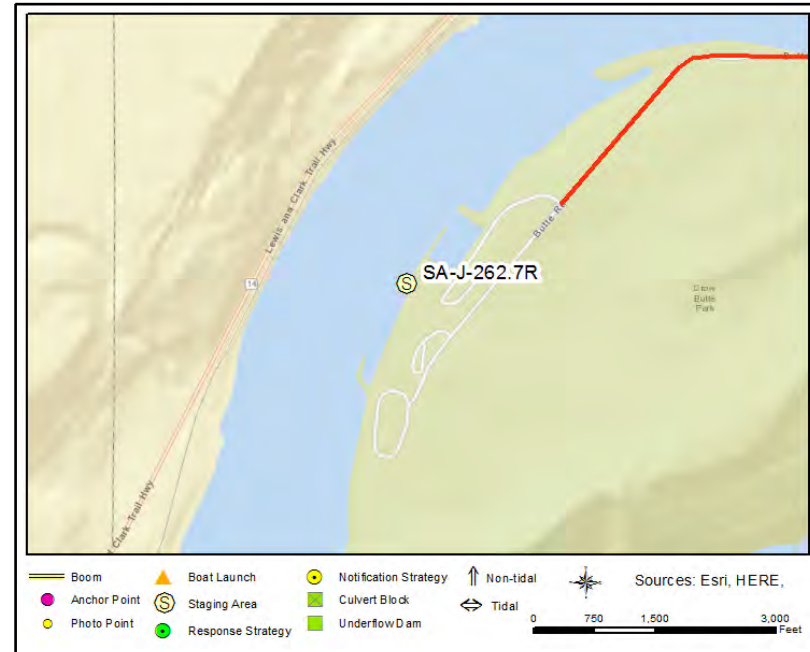
### Site Contact

#### USACE John Day pool

Land/Property Contact : Natural Resource Manager  
541-506-4805

### Nearest Address

1 Butte Road  
Prosser, WA 99350



### Driving Directions

#### DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)



**Alder Creek****J-258.6R**

**Position - Location:** 45° 50.132', -119° 55.744' 45° 50' 7.9", -119° 55' 44.7" 45.83553, -119.92907 Prosser

**Strategy Objective:** Exclusion : Prevent oil from entering Alder Creek

**Implementation:** Deploy 200' of boom in a chevron configuration. Adjust quantity and placement of anchors based on conditions of the day.

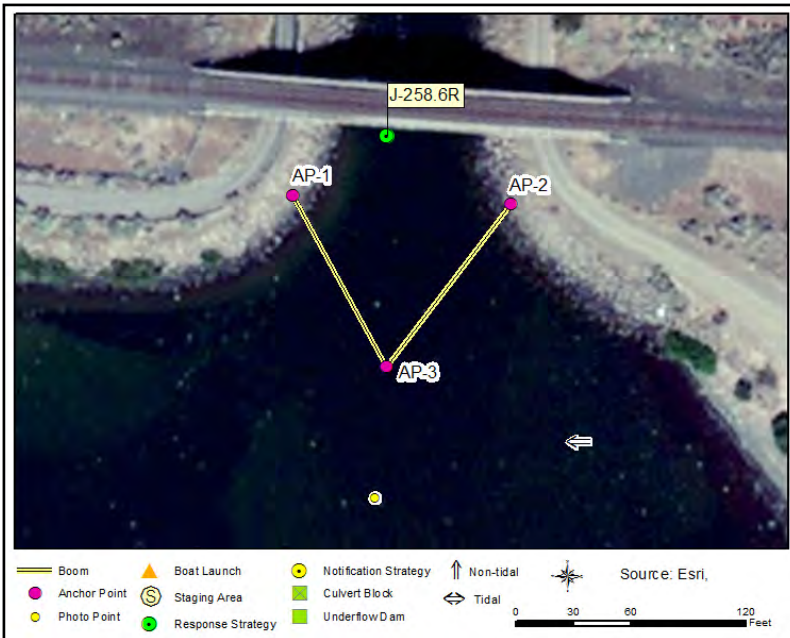
**Staging Area:** Onsite : Stage onsite on the shoulder of the road

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch boat at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

## Alder Creek

J-258.6R



J-258.6R Photo: Mouth of Alder Creek.



## Site Contact

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager  
541-506-4805

## Nearest Address

100 Alderdale Road  
Prosser, WA 99350

## Driving Directions

## Directions to J-258.6R

1. Start at U.S. Hwy 395, Pasco, WA
2. Go southeast on N 4th Ave (0.05 miles)
3. Turn right on W Sylvester St (0.09 miles)
4. Turn left on N 5th Ave (0.22 miles)
5. Turn right on W Clark St (0.5 miles)
6. Turn left on N 12th Ave (0.06 miles)
7. Make sharp right on W Lewis St (1.41 miles)
8. Take ramp and go on US-395 S (0.78 miles)
9. At fork keep left on US-395 (5.18 miles)
10. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
11. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
12. Turn right on WA-14 (31.4 miles)
13. Turn right on Alderdale Rd (0.18 miles)
14. Finish at the river after going under the railroad bridge.

**Alder Creek Collection****J-258.65R**

**Position - Location:** 45° 50.081', -119° 55.646' 45° 50' 4.9", -119° 55' 38.8" 45.83469, -119.92744 Crow Butte Park

**Strategy Objective:** Collection : Collect oil that is travelling down river.

**Implementation:** Use 1000' of boom to divert oil to shoreline collection area. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Need to check bridge clearance on access road for a vac truck.

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch boat at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

4 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

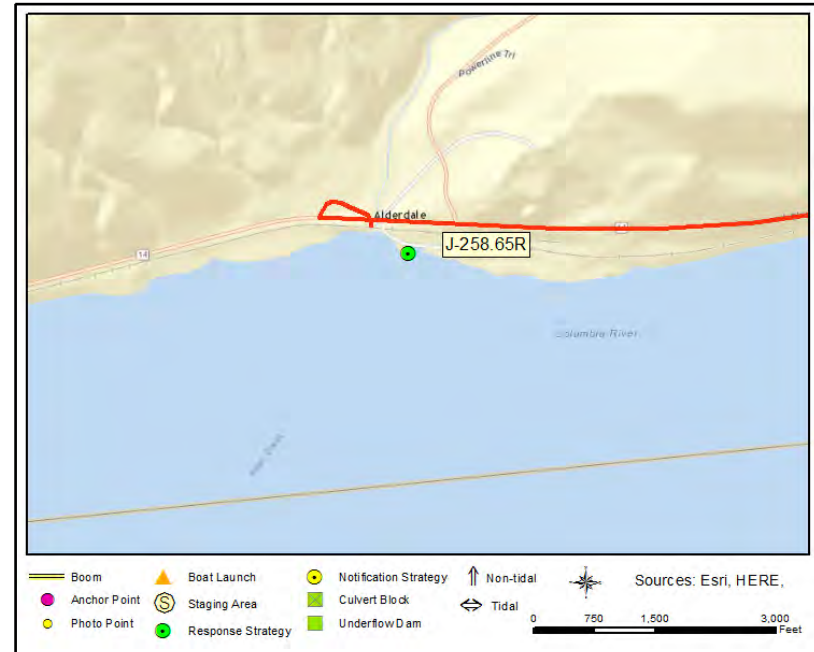
1 Boat Operator
4 Laborer
1 Supervisor

## Alder Creek Collection

J-258.65R



J-258.65R Photo: Aerial overview of collection area.



## Site Contact

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**Crowe Butte Park Ranger**

Land/Property Contact :  
509-875-2644

## Nearest Address

100 Alderdale Rd  
Crow Butte Park, WA 99350

## Driving Directions

## Directions to J-258.65R

1. Start at U.S. Hwy 395, Pasco, WA
2. Go southeast on N 4th Ave (0.05 miles)
3. Turn right on W Sylvester St (0.09 miles)
4. Turn left on N 5th Ave (0.22 miles)
5. Turn right on W Clark St (0.5 miles)
6. Turn left on N 12th Ave (0.06 miles)
7. Make sharp right on W Lewis St (1.41 miles)
8. Take ramp and go on US-395 S (0.78 miles)
9. At fork keep left on US-395 (5.18 miles)
10. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
11. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
12. Turn right on WA-14 (31.4 miles)
13. Turn right on Alderdale Rd (0.18 miles)
14. Finish at the river after going under the railroad bridge.

**Sixmile Canyon****J-259.8L**

**Position - Location:** 45° 49.271', -119° 54.209' 45° 49' 16.3", -119° 54' 12.6" 45.82119, -119.90349 Boardman

**Strategy Objective:** Exclusion : Keep oil out of wetlands

**Implementation:** Anchor 500' of boom on either side of the inlet to Sixmile Canyon. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Stage on site off Tower Rd, gravel road with off road parking by anchor point

**Site Safety:** Water hazard, slips, trips, & falls.

**Field Notes:** Launch at Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat

**Recommended Equipment**

2 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
3	Laborer
1	Supervisor

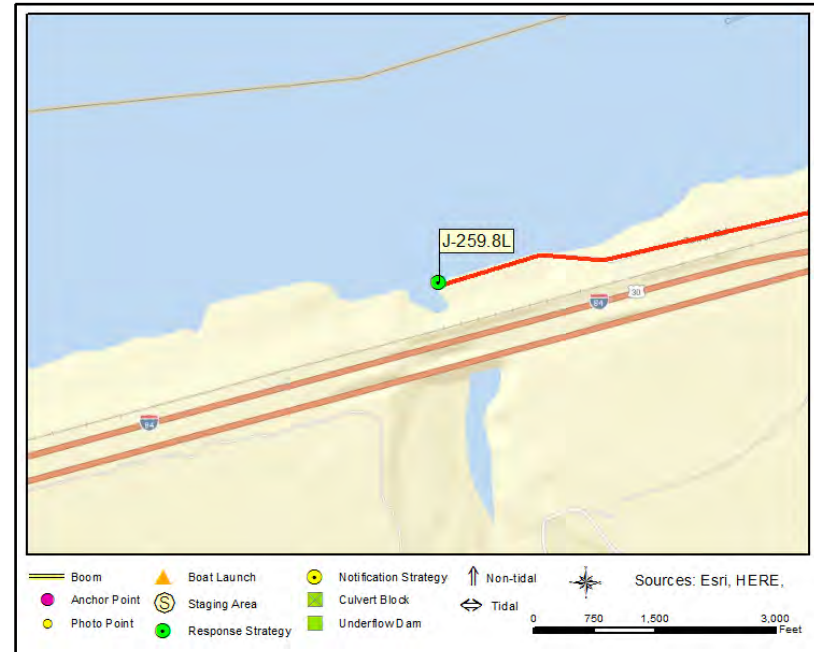


## Sixmile Canyon

J-259.8L



J-259.8L Photo: Aerial view of Sixmile Canyon showing the culvert



### Site Contact

#### USACE John Day pool

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

### Nearest Address

Tower Rd  
Boardman, OR 97818

### Driving Directions

1. Directions to J-259.8L/Sixmile Canyon, starting at US 395, pasco, wa
2. Go south on US-395 toward W Vineyard Dr (4.52 miles)
3. Take ramp on the right and go on I-182 W/US-395 S toward Richland/Pendleton (2.37 miles)
4. At exit 12A take ramp on the right and go on US-395 S toward Kennewick/Pendleton (2.55 miles)
5. At fork keep left on US-395 (5.18 miles)
6. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (30.59 miles)
7. Take ramp on the right and go on I-84 W toward Portland (20.09 miles)
8. At exit 159 take ramp to Tower Rd. (0.22 miles)
9. Turn right on Tower Rd (2.85 miles),
10. Cross the railroad tracks and turn left, follow to the end of the gravel road (5 miles)

## Crow Butte North Channel

J-262.3M

**Position - Location:** 45° 50.852', -119° 51.657' 45° 50' 51.1", -119° 51' 39.4" 45.84753, -119.86095 Prosser

**Strategy Objective:** Exclusion : Prevent oil from entering area north of Crow Butte Island

**Implementation:** Use two different legs of 1000' each to create a cascading deflection strategy. Low river flow northward in this direction means this strategy should only be deployed if oil observed moving in this direction. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Crowe Butte Park (SA-J-262.7R)

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not

**Field Notes:** Launch boat from Crow Butte Park (BL-J-262.7R)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge



## Recommended Equipment

6 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
2000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

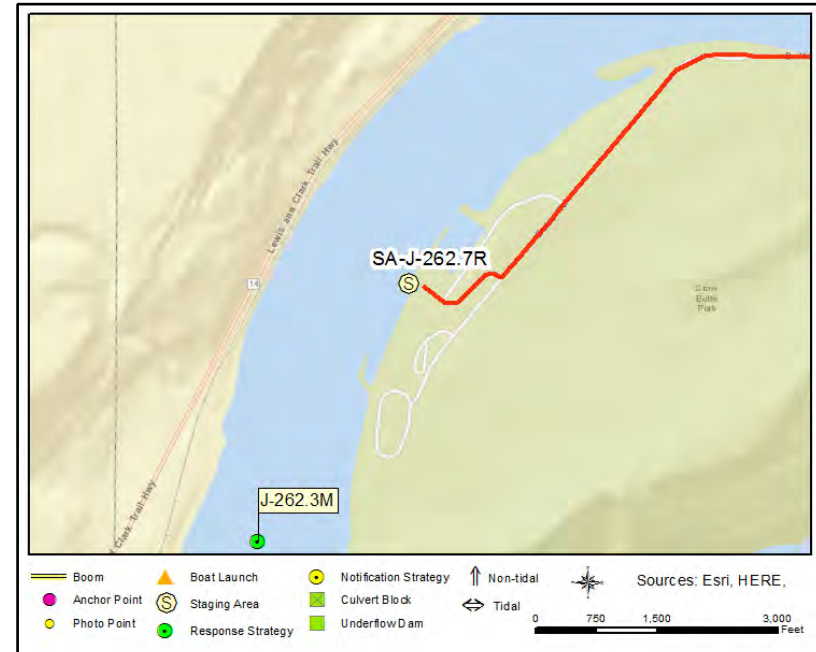
1	Boat Operator
3	Laborer
1	Supervisor

## Crow Butte North Channel

J-262.3M



J-262.3M Photo: Shoreline for eastern anchor.



## Site Contact

**Crowe Butte Park Ranger**  
Land/Property Contact :

WA  
509-875-2644

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

Directions from Pasco to Crow Butte Boat Launch.

1. Start at U.S. Hwy 395, Pasco, WA
2. Go southeast on N 4th Ave (0.05 miles)
3. Turn right on W Sylvester St (0.09 miles)
4. Turn left on N 5th Ave (0.22 miles)
5. Turn right on W Clark St (0.5 miles)
6. Turn left on N 12th Ave (0.06 miles)
7. Make sharp right on W Lewis St (1.41 miles)
8. Take ramp and go on US-395 S (0.78 miles)
9. At fork keep left on US-395 (5.18 miles)
10. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
11. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
12. Turn right on WA-14 (25.77 miles)
13. Turn right on Sonova Rd (0.03 miles)
14. Turn right on Butte Rd (1.03 miles)
15. Continue into the park and down road to the 2nd right, boat launch on the right.

**Crow Butte Park West****J-262.5M**

**Position - Location:** 45° 50.649', -119° 51.465' 45° 50' 39.0", -119° 51' 27.9" 45.84416, -119.85775 Prosser

**Strategy Objective:** Deflection : Prevent oil from entering area north of Crow Butte Island

**Implementation:** Use 1000' of boom. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-262.7R/Crow Butte

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch from BL-J-262.7R/Crow Butte

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

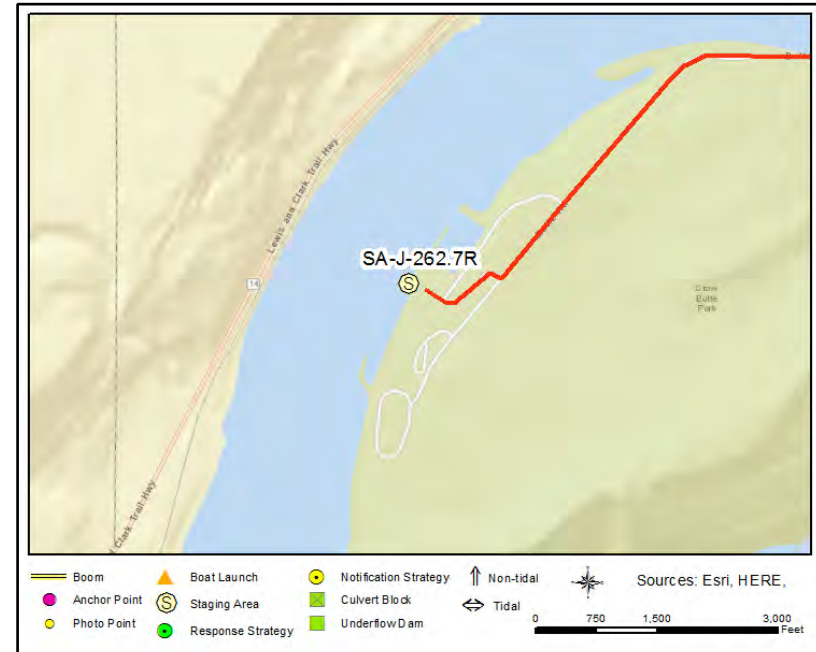
1	Boat Operator
4	Laborer
1	Supervisor

## Crow Butte Park West

J-262.5M



J-262.5M Photo: Shoreline anchor area.



## Site Contact

**Crowe Butte Park Ranger**

Land/Property Contact :

WA

509-875-2644

## Nearest Address

1 Butte Road  
 Prosser, WA 99350

## Driving Directions

Directions to Crow Butte boat launch.

1. From I-82 South take exit 131 and head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)



**Crow Butte -Highway 14 MP 155.5****J-264.6R**

**Position - Location:** 45° 51.958', -119° 49.040' 45° 51' 57.5", -119° 49' 2.4" 45.86596, -119.81733 Prosser

**Strategy Objective:** Deflection : Prevent oil from entering valuable bird habitat, mashland near Crow Butte bridge.

**Implementation:** Use 900' of boom. Will need waders and machetes. There is not a strong influx of water in this area from the main channel. Only deploy if oil is observed or forecast to enter the area. Adjust quantity and placement of anchors based on conditions of the day.

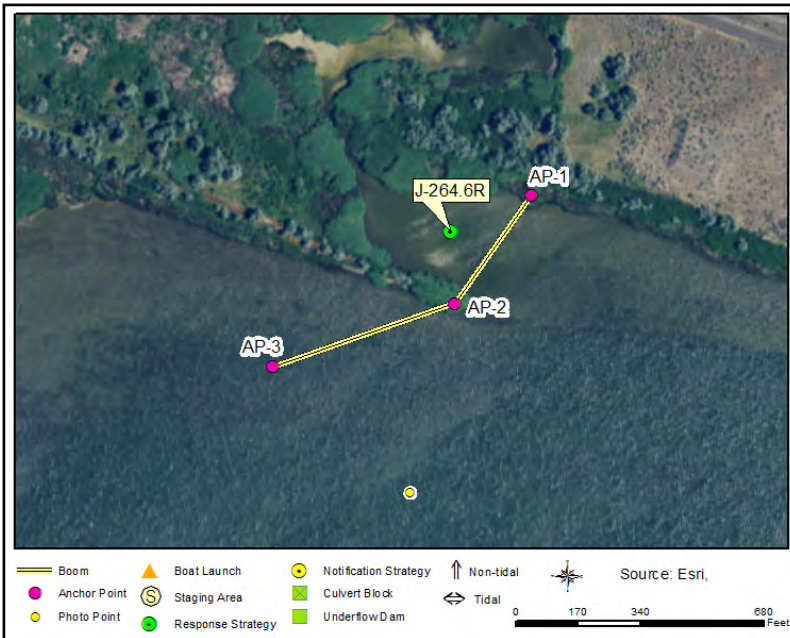
**Staging Area:** Remote : Crow Butte Park (SA-J-262.7R)

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch boat from Crow Butte Park (BL-J-262.7R)

**Watercourse:** Freshwater Wetland - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
900	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

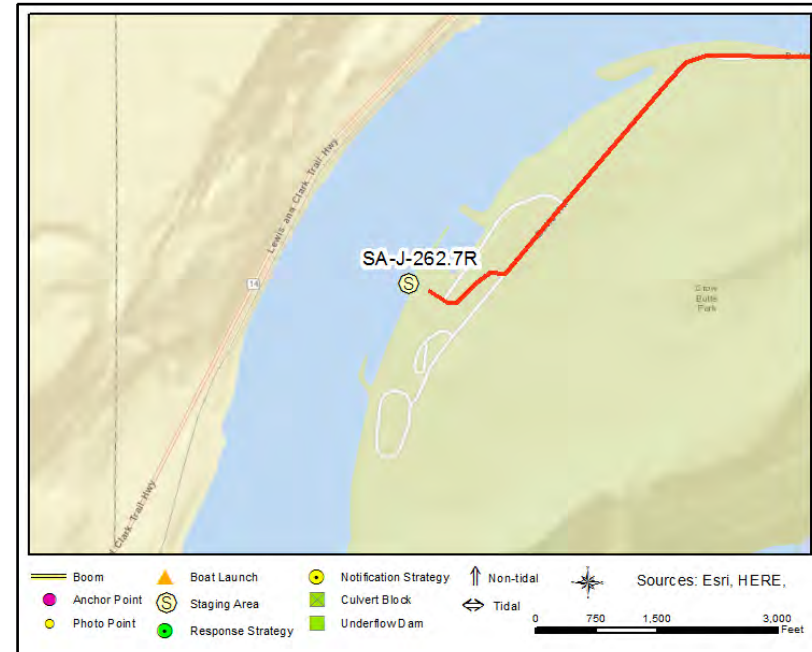
1	Boat Operator
3	Laborer
1	Supervisor

## Crow Butte -Highway 14 MP 155.5

J-264.6R



J-264.6R Photo: Aerial overview of strategy area.



## Site Contact

## Crowe Butte Park Ranger

Land/Property Contact :

WA  
509-875-2644

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

Directions to Crow Butte boat launch from I-82 South.

1. From I-82 South take exit 131 and head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

## Crow Butte Water Intake

J-264.8R

**Position - Location:** 45° 51.884', -119° 48.352' 45° 51' 53.1", -119° 48' 21.1" 45.86474, -119.80587 Prosser

**Strategy Objective:** Exclusion : Keep oil out of water intake facility.

**Implementation:** Use 200' off boom in a chevron configuration to deflect oil away from the intakes. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Can stage some equipment on site or at Crow Butte Park (SA-J-262.7R)

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch from Crow Butte Park boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Water Intakes



### Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

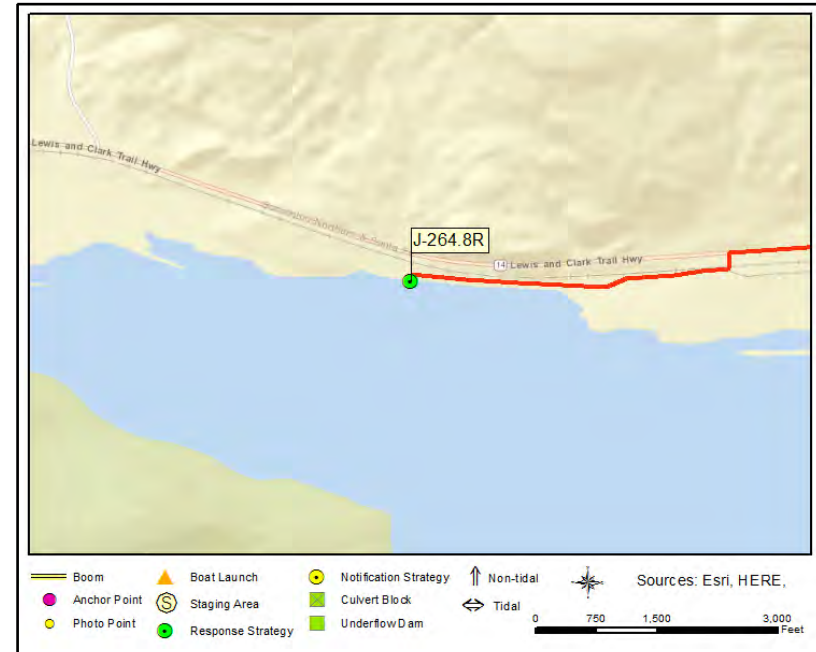
1	Boat Operator
2	Laborer
1	Supervisor

## Crow Butte Water Intake

J-264.8R



J-264.8R Photo: Aerial overview of water intake.



## Site Contact

## BNSF Railroad

Emergency Contact : Service Interruption Desk

WA

817-352-2832

## Nearest Address

138469 WA-14  
 Prosser, WA 99350

## Driving Directions

1. Start at U.S. Hwy 395, Pasco, WA
2. Go southeast on N 4th Ave (0.05 miles)
3. Turn right on W Sylvester St (0.09 miles)
4. Turn left on N 5th Ave (0.22 miles)
5. Turn right on W Clark St (0.5 miles)
6. Turn left on N 12th Ave (0.06 miles)
7. Make sharp right on W Lewis St (1.41 miles)
8. Take ramp and go on US-395 S (0.78 miles)
9. At fork keep left on US-395 (5.18 miles)
10. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (18.87 miles)
11. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
12. Turn right on WA-14 (23.82 miles)
13. Take a left on gravel road at 138469 WA-14, 99350
14. Cross the RR tracks and follow dirt road to the water intakes.



## Eastern end of Crow Butte Island

J-265.0M

**Position - Location:** 45° 51.411', -119° 48.235' 45° 51' 24.7", -119° 48' 14.1" 45.85685, -119.80391 Patterson

**Strategy Objective:** Deflection : Prevent oil from entering valuable bird habitat, marshland near Crow Butte Bridge.

**Implementation:** Cascade 3 sections of 500' boom each to deflect oil away from the northside of Crow Island. Water does not appear to flow strongly through this area. Does not appear to be a collection point for debris. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-262.7R/Crow Butte

**Site Safety:** Slips, Trips, Falls, Water Hazards, Shallow Water

**Field Notes:** Launch at BL-J-262.7R/Crow Butte

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge



### Recommended Equipment

10	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
1500	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor

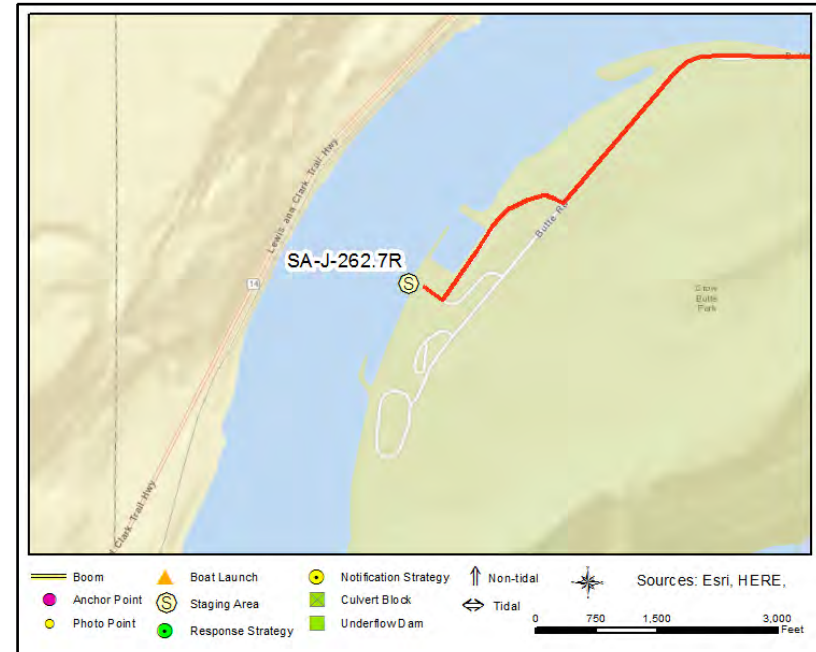


## Eastern end of Crow Butte Island

J-265.0M



J-265.0M Photo: Aerial overview of strategy area, looking west at head of island.



### Site Contact

**Crowe Butte Park Ranger**  
Land/Property Contact :

WA  
509-875-2644

### Nearest Address

1 Butte Road  
Prosser, WA 99350

### Driving Directions

1. Directions to SA-J-262.7R/Crow Butte Park, from I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

## Collection point NE of Crow Butte

J-265.3R

**Position - Location:** 45° 51.841', -119° 47.779' 45° 51' 50.4", -119° 47' 46.8" 45.86401, -119.79632 Prosser

**Strategy Objective:** Collection : Divert oil moving downstream to the collection point

**Implementation:** Deploy 1000' of boom from shoreside anchor point located at 45.864007 N, -119.796287 W; run boom out to the SE and anchor. Not a strong influx of water into this area from the main channel. Deploy only if oil is forecast to enter this area. Adjust angle of boom, placement and number of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Must cross tracks and follow graded rd adjacent to tracks to staging area - use 4-wheel drive in bad weather

**Site Safety:** Railroad Crossing, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do no

**Field Notes:** Launch from BL-J-262.7R/Crow Butte

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Downstream Resources, Waterfowl and Salmonid Concentrations and Habitat



## Recommended Equipment

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

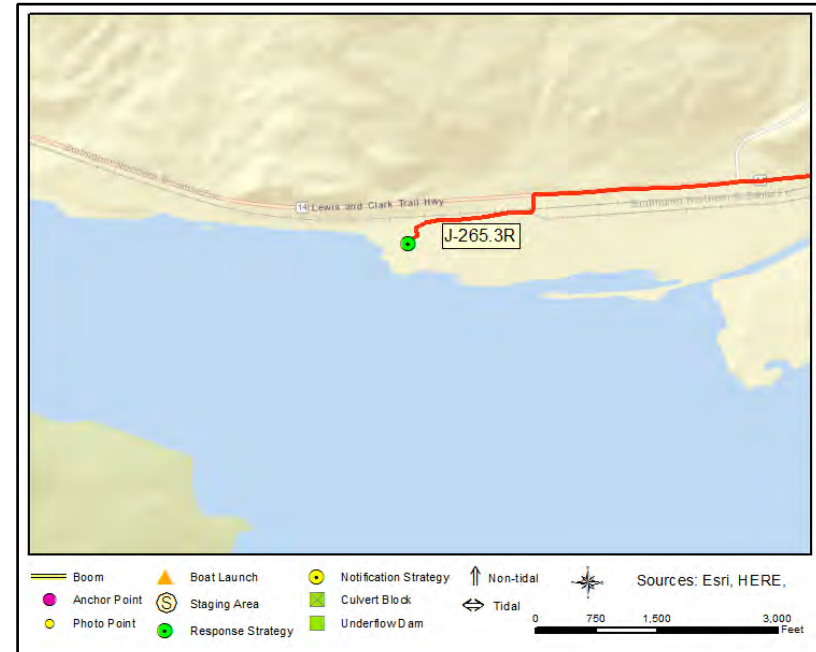
1 Boat Operator
4 Laborer
1 Supervisor

## Collection point NE of Crow Butte

J-265.3R



J-265.3R Photo: Aerial view of shoreline location of J-265.3R collection strategy



## Site Contact

## Crowe Butte Park Ranger

Primary Contact :

WA  
509-875-2644

## Nearest Address

Canoe Ridge Road  
Prosser, WA 99350

## Driving Directions

1. Directions to J-265.3R, starting from Interstate 82 and WA-14, Plymouth, WA 99346
2. Go east on SE 3rd Ave toward S Plymouth Rd (0.02 miles)
3. Turn left on S Plymouth Rd (0.57 miles)
4. Turn left on WA-14 (23 miles)
5. Go past Canoe Ridge Rd (0.5 miles) and turn left by a parking lot to get to the railroad crossing
6. Turn right on the gravel road running adjacent to the tracks for (0.28 mi) then left at the fork. Your destination will be directly ahead.

## Whitcomb Shallow Water Habitat

J-266.0R

**Position - Location:** 45° 51.757', -119° 46.856' 45° 51' 45.4", -119° 46' 51.4" 45.86262, -119.78094 Prosser

**Strategy Objective:** Exclusion : Keep oil out of shallow water habitat.

**Implementation:** Use 300' of boom deployed in a chevron configuration. Thick vegetation on shore, recommend taking a machete to help set shoreside anchors. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-262.7R (Crow Butte Park)

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water.

**Field Notes:** Launch at Crow Butte Park, BL-J-262.7R.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge



### Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

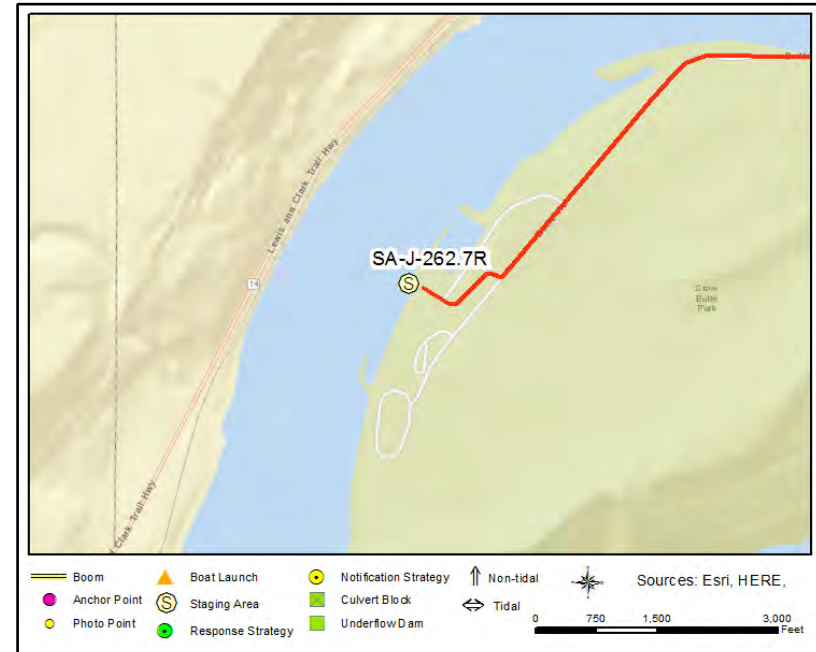


## Whitcomb Shallow Water Habitat

J-266.0R



J-266.0R Photo: Aerial overview of strategy location.



## Site Contact

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

Directions to Crow Butte boat launch from I-82 South.

1. From I-82 South take exit 131 and head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)



**Whitcom Island****J-266.4R**

**Position - Location:** 45° 51.614', -119° 46.561' 45° 51' 36.8", -119° 46' 33.7" 45.86024, -119.77602 Prosser

**Strategy Objective:** Exclusion : Keep oil out of shallow water habitat located to the north of Whitcomb Island.

**Implementation:** Use 800' of boom deployed in a chevron configuration. Water can be extremely shallow in the area. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at Crow Butte Park, SA-J-262.7R

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch boat from Crow Butte Park (BL-J-262.7R)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
800	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

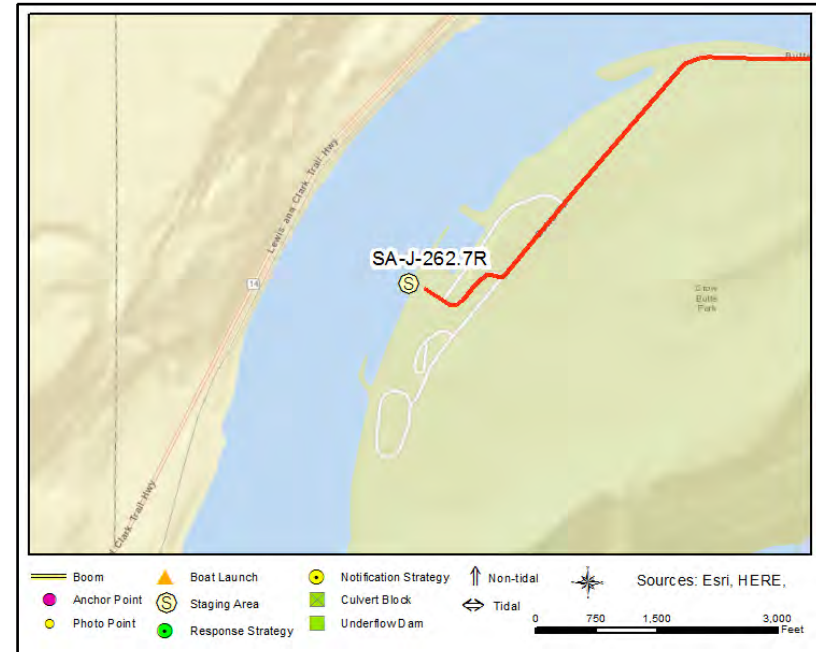
1	Boat Operator
2	Laborer
1	Supervisor

## Whitcom Island

J-266.4R



J-266.4R Photo: Aerial overview of strategy area.



## Site Contact

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

1. Start at I 82 Kennewick
2. Go northwest on I-82 (0.84 miles)
3. Make U-turn and go back on I-82 (19.27 miles)
4. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
5. Turn right on WA-14 (25.77 miles)
6. Turn right on Sonova Rd (0.03 miles)
7. Turn right on Butte Rd (1.03 miles)
8. Continue into the park and down road to the 2nd right, boat launch on the right.

**SE end of Whitcomb Island****J-266.6R**

**Position - Location:** 45° 51.186', -119° 45.142' 45° 51' 11.1", -119° 45' 8.5" 45.85310, -119.75237 Paterson

**Strategy Objective:** Deflection : Keep oil out of south shore and channel that goes N of Crow Butte Island

**Implementation:** Anchor 1000' of boom from agricultural water intake jetty, tow boom to the SW and anchor it off shore. Adjust angle of boom, placement & quantity of anchors, according to conditions of the day. Waders may be needed to access shore anchor point.

**Staging Area:** Remote : Stage at SA-J-262.7R/Crow Butte

**Site Safety:** Water hazards, slips, trips & falls.

**Field Notes:** Launch at BL-J-262.7R/Crow Butte

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

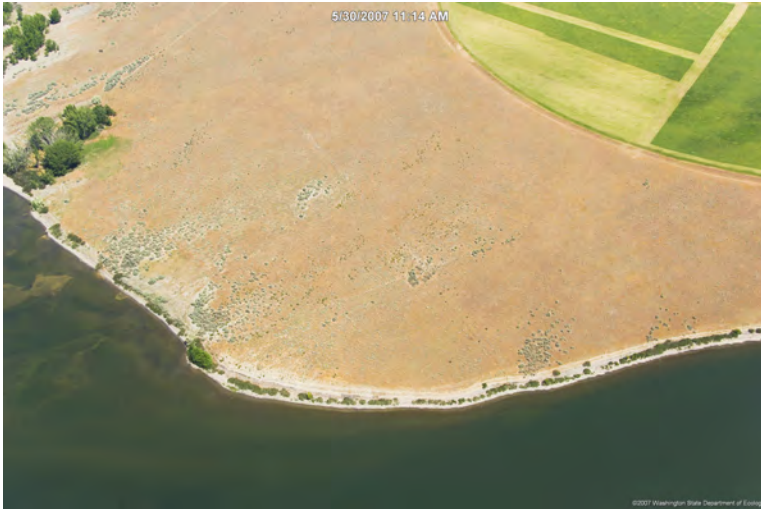
5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

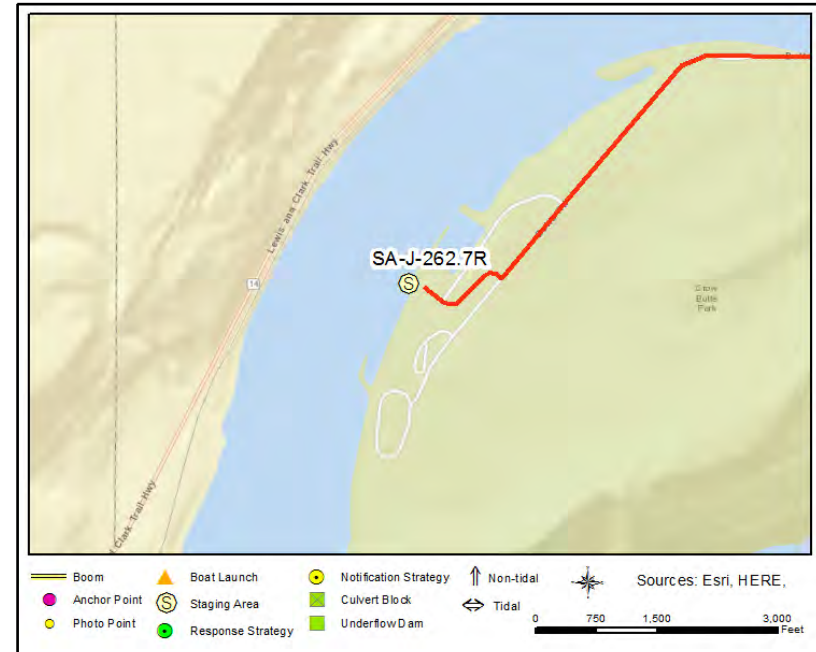
1	Boat Operator
4	Laborer
1	Supervisor

## SE end of Whitcomb Island

J-266.6R



J-266.6R Photo: Aerial view of shoreside anchor location for J-266.6R at the tip of the peninsula across from Crow Butte



## Site Contact

## Crowe Butte Park Ranger

Primary Contact :

WA  
509-875-2644

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

1. Directions to Crow Butte Park, SA-J-262.7R, starting from I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd (51 ft)
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

**Boardman Marina****J-269.3L**

**Position - Location:** 45° 50.705', -119° 42.710' 45° 50' 42.3", -119° 42' 42.6" 45.84508, -119.71183 Boardman

**Strategy Objective:** Exclusion : Keep oil out of boat basin

**Implementation:** Anchor 800' of boom from the E jetty midway to the end. Tow boom out to the NW and anchor offshore. Keep enough room between boom and W jetty for boats to pass. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Stage at SA-J-269.5L/Boardman Marina

**Site Safety:** Working marina, water hazard, rip rap, slips, trips & falls.

**Field Notes:** Launch at BL-J-269.5L/Boardman Marina

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Boat Basin/Marina

**Recommended Equipment**

4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
3	Laborer
1	Supervisor



## Boardman Marina

J-269.3L



J-269.3L Photo: View of the Boardman Marina inlet



## Site Contact

## Boardman Parks and Recreation

Land/Property Contact :

Boardman, OR 97818  
541-481-721

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

## Driving Directions

1. Directions to SA-J-269.5L/Boardman Marina, starting from Pasco take US-395 S, follow signs for I-82E/ US395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US395 S (18.9 mi)
3. Continue to follow I-82 E Entering Oregon (30.6 mi)
4. Take the I-84 W exit toward Portland (0.5 mi)
5. Merge onto I-84 (14.6 mi)
6. Take exit 164 toward Boardman (0.3 mi)
7. Turn right onto N Main St (0.4 mi)
8. Turn left onto Marine Dr NW
9. Finish at 1 Marine Dr. NW, 97818, on the right

**Whitcomb Island East End- High Water****J-269.9R**

**Position - Location:** 45° 52.639', -119° 42.930' 45° 52' 38.3", -119° 42' 55.8" 45.87732, -119.71550 Boardman

**Strategy Objective:** Exclusion : Keep oil out of Umatilla Wildlife Refuge, channel behind Whitcomb Island.

**Implementation:** Use 200' of boom in a chevron configuration. During site visit in 2014 water access into slough was not found. Possible it only needs to be deployed during high water situations. Need a machete to clear vegetation for shoreside anchors. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage equipment at SA-J-269.5L, Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch Boat at BL-J-269.5L, Boardman Marina

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

## Whitcomb Island East End- High Water

J-269.9R



J-269.9R Photo: Aerial overview of strategy location.



## Site Contact

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

## Driving Directions

Directions from I-82 South to Boardman Marina

1. Start at US 395, Kennewick, wa
2. Go southwest on I-82 (US-395 S) (21.37 miles)
3. Take ramp on the right and go on I-84 W toward Portland (15.16 miles)
4. At exit 164 take ramp toward Boardman (0.28 miles)
5. Turn right on N Main St (0.46 miles)
6. Continue on Marine Dr NW (0.23 miles)
7. Finish at Boardman Marina Boat Launch (BL-J-269.5L)

**Marine Dr NE Beach****J-270.2L**

**Position - Location:** 45° 51.136', -119° 41.205' 45° 51' 8.2", -119° 41' 12.3" 45.85227, -119.68674 Boardman

**Strategy Objective:** Deflection : Keep oil out of inlet and off of beach

**Implementation:** Anchor 1000' of boom to the NE side of the Marine Drive Beach inlet, tow boom to the NW and anchor offshore. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day. Shallow water, bring waders to access shore.

**Staging Area:** Remote : Stage at SA-J-269.5L/Boardman Marina

**Site Safety:** Water hazard, shallow water, slips, trips & falls

**Field Notes:** Launch from BL-J-269.5L/Boardman Marina

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Economic Resource, Recreational Boating, Recreational Swimming Area, Sensitive Resources

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

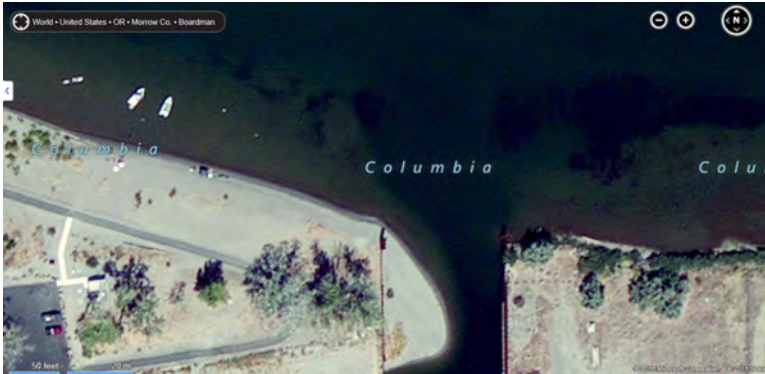
**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor



## Marine Dr NE Beach

J-270.2L



J-270.2L Photo: Aerial view of the Inlet at Marine Dr NE near the beach



## Site Contact

## Boardman Parks and Recreation

Land/Property Contact :

Boardman, OR 97818  
541-481-721

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

## Driving Directions

1. Directions to SA-J-269.5L/Boardman Marina, starting from Pasco take US-395 S, follow signs for I-82E/ US395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US395 S (18.9 mi)
3. Continue to follow I-82 E Entering Oregon (30.6 mi)
4. Take the I-84 W exit toward Portland (0.5 mi)
5. Merge onto I-84 (14.6 mi)
6. Take exit 164 toward Boardman (0.3 mi)
7. Turn right onto N Main St (0.4 mi)
8. Turn left onto Marine Dr NW
9. Finish at 1 Marine Dr. NW, 97818, on the right



## Utility Lane wetlands E of Port of Morrow

J-271.4L

**Position - Location:** 45° 51.088', -119° 40.076' 45° 51' 5.3", -119° 40' 4.6" 45.85147, -119.66794 Boardman

**Strategy Objective:** Exclusion : Keep oil out of wetlands

**Implementation:** Anchor 100' of boom on either side of the culvert in a chevron formation. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day. Shallow water, bring waders

**Staging Area:** Remote : Stage at SA-J-269.5L/Boardman Marina

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not

**Field Notes:** BL-J-269.5L/Boardman Marina

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat



## Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
1	Laborer
1	Supervisor

## Utility Lane wetlands E of Port of Morrow

J-271.4L



J-271.4L Photo: Interior view of the culvert leading into Utility Lane wetlands

## Site Contact

## Boardman Parks and Recreation

Land/Property Contact :

Boardman, OR 97818  
541-481-721

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818



## Driving Directions

1. Directions to SA-J-269.5L/Boardman Marina, starting from Pasco take US-395 S, follow signs for I-82E/ US395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US395 S (18.9 mi)
3. Continue to follow I-82 E Entering Oregon (30.6 mi)
4. Take the I-84 W exit toward Portland (0.5 mi)
5. Merge onto I-84 (14.6 mi)
6. Take exit 164 toward Boardman (0.3 mi)
7. Turn right onto N Main St (0.4 mi)
8. Turn left onto Marine Dr NW
9. Finish at 1 Marine Dr. NW, 97818, on the right

**Highway 14, MP 161.5****J-272.2R**

**Position - Location:** 45° 53.232', -119° 41.723' 45° 53' 13.9", -119° 41' 43.4" 45.88720, -119.69539 Prosser

**Strategy Objective:** Collection : Collect oil as it moves downriver.

**Implementation:** Use 1000' of boom to divert oil to the shoreline for collection. Access is through BNSF property. Access road may be too small for a vac truck. If road is too small for a vac truck consider altering strategy J-273.2R which is directly upriver to allow for collection. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Can stage some equipment on site, additional staging at Boardman Marine Park (BL-J-269.5L)

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch boat from Boardman Marina (BL-J-269.5L)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

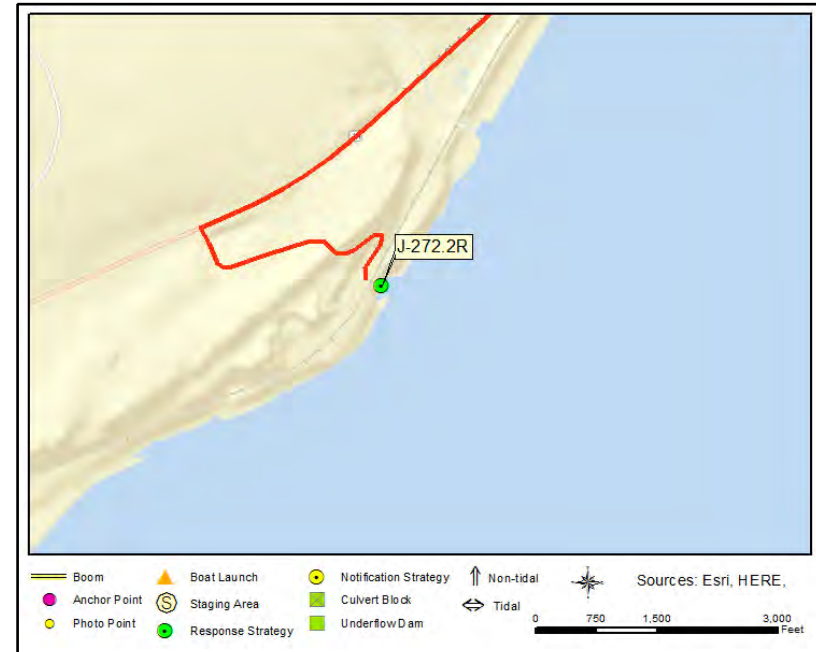
1	Boat Operator
4	Laborer
1	Supervisor

## Highway 14, MP 161.5

J-272.2R



J-272.2R Photo: Aerial overview of collection area.



## Site Contact

## BNSF Railroad

Land/Property Contact : Service Interruption Desk

WA  
817-352-2832

## Nearest Address

95200 Washington 14  
Prosser, WA 99350

## Driving Directions

1. Start at US 395, Kennewick, wa
2. Go southwest on I-82 (US-395 S) (9.65 miles)
3. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
4. Turn right on WA-14 (19.33 miles)
5. Turn left onto gravel road at 95200 Washington 14, 99350, and follow down to collection site at the river.



**Glade Creek****J-273.2R**

**Position - Location:** 45° 53.555', -119° 41.469' 45° 53' 33.3", -119° 41' 28.1" 45.89259, -119.69115 Prosser

**Strategy Objective:** Exclusion : Keep oil out of creek mouth and marsh.

**Implementation:** Use 1000' of boom to deflect and exclude oil. Eastern anchor should be attached to the shoreline and run the boom to the pumphouse structure. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Some staging available onsite, additional staging at Boardman Marina (BL-J-269.5L)

**Site Safety:** Shallow Water, Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch boat from Boardman Marina

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Each	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
4	Laborer
1	Supervisor



**Glade Creek****J-273.2R**

J-273.2R Photo: Aerial overview of the mouth of Glade Creek.

**Site Contact****BNSF Railroad**

Emergency Contact : Service Interruption Desk

WA  
817-352-2832

**Nearest Address**

91134 WA Highway 14  
Prosser, WA 99350

**Driving Directions**

1. Start at US 395, Kennewick, wa
2. Go southwest on I-82 (US-395 S) (9.65 miles)
3. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
4. Turn right on WA-14 (18.8 miles)
5. Turn left at gravel road at 91134 WA Highway 14, 99350, follow gravel road down to the river.

**Sand Island****J-274.85M**

**Position - Location:** 45° 53.806', -119° 38.122' 45° 53' 48.4", -119° 38' 7.3" 45.89677, -119.63537 Boardman

**Strategy Objective:** Deflection : Keep oil away from the shore of Sand Island and deflect back into the main channel.

**Implementation:** Use 2 sections of boom, 500' each. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch Boat at Boardman Marina, BL-J-269.5L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
4	Laborer
1	Supervisor

## Sand Island

J-274.85M



J-274.85M Photo: Aerial overview of strategy location.



### Site Contact

### Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

### Driving Directions

Directions from I-82 South to Boardman Marina

1. Start at US 395, Kennewick, wa
2. Go southwest on I-82 (US-395 S) (21.37 miles)
3. Take ramp on the right and go on I-84 W toward Portland (15.16 miles)
4. At exit 164 take ramp toward Boardman (0.28 miles)
5. Turn right on N Main St (0.46 miles)
6. Continue on Marine Dr NW (0.23 miles)
7. Finish at Boardman Marina Boat Launch (BL-J-269.5L)

## Long Walk Island

**J-274.91M**

**Position - Location:** 45° 53.671', -119° 37.639' 45° 53' 40.2", -119° 37' 38.3" 45.89451, -119.62731 Boardman

**Strategy Objective:** Deflection : Keep oil out of shallow water habitat east of Long Walk Island.

**Implementation:** Anchor 500' of boom at the very Southern most tip of the island, do not anchor on the NW shore. Depending on conditions may require more boom to keep oil from coming up along the backside of the island. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water.

**Field Notes:** Launch Boat at Boardman Marina (BL-J-269.5L)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat, Wildlife Refuge



### Recommended Equipment

2 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

## Long Walk Island

J-274.91M



J-274.91M Photo: Shoreline anchor area.



### Site Contact

### Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

### Driving Directions

Directions to Boardman Marina Boat Launch

1. Start at US 395, Kennewick, wa
2. Go southwest on I-82 (US-395 S) (21.37 miles)
3. Take ramp on the right and go on I-84 W toward Portland (15.16 miles)
4. At exit 164 take ramp toward Boardman (0.28 miles)
5. Turn right on N Main St (0.46 miles)
6. Continue on Marine Dr NW (0.23 miles)
7. Finish at Boardman Marina Boat Launch (BL-J-269.5L)



**Sand Island Center Channel****J-274.95M**

**Position - Location:** 45° 53.980', -119° 38.421' 45° 53' 58.8", -119° 38' 25.3" 45.89966, -119.64036 Boardman

**Strategy Objective:** Exclusion : Keep oil of of the channel west of Sand Island

**Implementation:** Deploy 1000' of boom between the two islands. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch Boat at Boardman Marina, BL-J-269.5L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Sensitive Resources, Waterfowl and Shorebird

**Recommended Equipment**

2	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

**Sand Island Center Channel****J-274.95M**

J-274.95M Photo: View of the channel opening at Sand Island

**Site Contact****Nearest Address**

1 Marine Dr. NW  
Boardman, OR 97818

**Driving Directions**

Directions to Boardman Marina Boat Launch

1. Start at US 395, Kennewick, wa
2. Go southwest on I-82 (US-395 S) (21.37 miles)
3. Take ramp on the right and go on I-84 W toward Portland (15.16 miles)
4. At exit 164 take ramp toward Boardman (0.28 miles)
5. Turn right on N Main St (0.46 miles)
6. Continue on Marine Dr NW (0.23 miles)
7. Finish at Boardman Marina Boat Launch (BL-J-269.5L)

**South of McCormack Slough- High Water****J-275.0L**

**Position - Location:** 45° 53.444', -119° 36.612' 45° 53' 26.7", -119° 36' 36.7" 45.89074, -119.61020 Boardman

**Strategy Objective:** Exclusion : Prevent oil from entering shallow water area.

**Implementation:** Use 200' of boom in a chevron configuration. Water access to slough was dry at time of field visit, GRP only needs to be deployed during high water situation. Will need waders to access shoreline. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch Boat from Boardman Marina, BL-J-269.5L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

## South of McCormack Slough- High Water

J-275.0L



J-275.0L Photo: Shoreline to be protected.



## Site Contact

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

## Driving Directions

## Directions to Boardman Marina

1. Start at U.S. Hwy 395, Kennewick, WA
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (30.59 miles)
6. Take ramp on the right and go on I-84 W toward Portland (15.16 miles)
7. At exit 164 take ramp toward Boardman (0.28 miles)
8. Turn right on N Main St (0.46 miles)
9. Continue on Marine Dr NW (0.23 miles)
10. Finish Boardman Marina Boat Launch

**Highway 14, MP 164****J-275.0R**

**Position - Location:** 45° 54.739', -119° 39.093' 45° 54' 44.4", -119° 39' 5.6" 45.91232, -119.65155 Boardman

**Strategy Objective:** Deflection : Keep oil away from shoreline and shallow water habitat.

**Implementation:** Use 1000' of boom to deflect oil away from the shoreline. Can walk down to shoreline area via gravel road. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch boat at Boardman Marina (BL-J-269.5L)

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

3 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

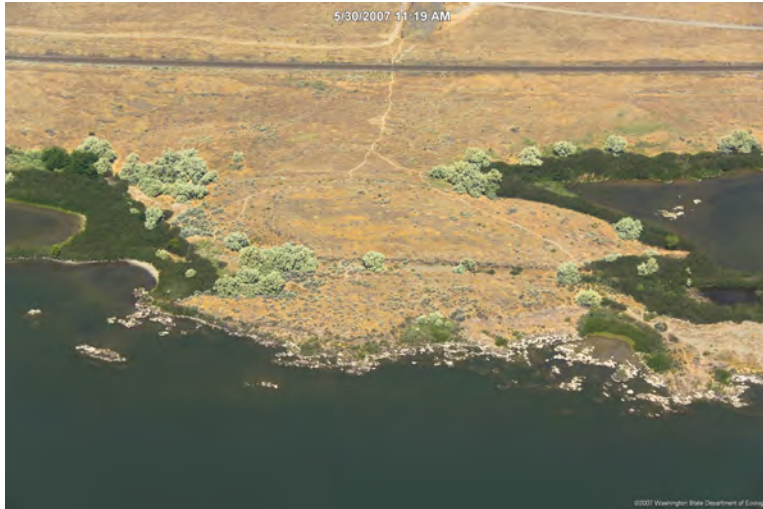
**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor



## Highway 14, MP 164

J-275.0R



J-275.0R Photo: Aerial overview of shoreline anchor area.



## Site Contact

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

## Driving Directions

## Directions to Boardman Marina Boat Launch

1. Start at U.S. Hwy 395, Kennewick, WA
2. Go north on S Washington St toward E Kennewick Ave (0.04 miles)
3. Turn left on W Kennewick Ave (2.01 miles)
4. Turn left on US-395 (S Ely St) (3.51 miles)
5. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (30.59 miles)
6. Take ramp on the right and go on I-84 W toward Portland (15.16 miles)
7. At exit 164 take ramp toward Boardman (0.28 miles)
8. Turn right on N Main St (0.46 miles)
9. Continue on Marine Dr NW (0.23 miles)
10. Finish at Boardman Marina Boat Launch

**McCormack Slough- High Water****J-275.5L**

**Position - Location:** 45° 53.745', -119° 36.287' 45° 53' 44.7", -119° 36' 17.2" 45.89575, -119.60478 Irrigon

**Strategy Objective:** Exclusion : Prevent oil from entering shallow water area.

**Implementation:** Use 200' of boom in a chevron configuration. Water access to slough was dry during site visit. GRP only needs to be deployed during high water situation. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage onsite just to the north of the strategy location

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch boat at Boardman Marina, BL-J-269.5L.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
2	Laborer
1	Supervisor

**McCormack Slough- High Water****J-275.5L**

J-275.5L Photo: Trail down to the shoreline

**Site Contact****Nearest Address**

Columbia Lane  
Irrigon, OR 97844

**Driving Directions**

## Direction to Strategy Location

1. Start at 131 N Ely St Kennewick
2. Go southwest on US-395 (N Ely St) toward W Kennewick Ave
3. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla
4. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston
5. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor
6. Continue on US-730 (6th St)
7. Make sharp right on County Road 930 (Paterson Ferry Rd)
8. Turn left on Columbia Ln
9. Finish at Columbia Lane, 97844, on the left
10. follow dirt roads back to the strategy location.

**Abandoned RR trestle NW of Big Blalock Island****J-275.8R**

**Position - Location:** 45° 55.113', -119° 38.153' 45° 55' 6.8", -119° 38' 9.2" 45.91854, -119.63589 Irrigon

**Strategy Objective:** Deflection : Keep oil off shoreline

**Implementation:** Deploy 800' of boom from spit of land south of the trestle out toward the SW. Adjust angle of boom, quantity and placement of anchors, according to conditions of the day. Bring waders to access shoreline in shallow water.

**Staging Area:** Remote : Stage at SA-J-282.6L/Irrigon

**Site Safety:** Water hazard, slips, trips & falls

**Field Notes:** Launch from BL-J-282.6L/Irrigon

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Bald Eagle Nesting, Great Blue Heron Rookeries, National Wildlife Refuge, Shorebird Concentrations, Waterfowl and Salmonid

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor

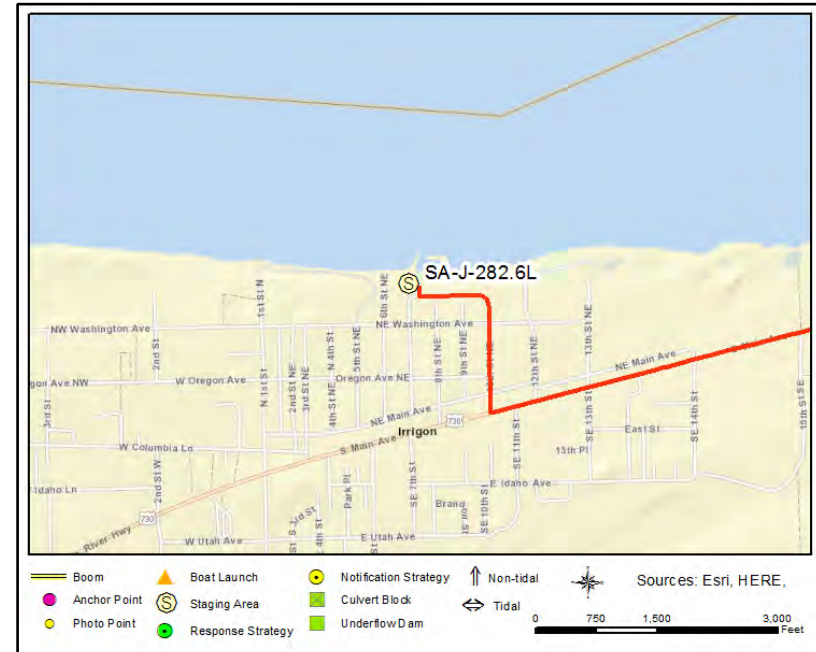


## Abandoned RR trestle NW of Big Blalock Island

J-275.8R



J-275.8R Photo: Aerial view of anchor point and abandoned railroad trestle



## Site Contact

**US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges**

Primary Contact : Property Contact

Burbank, WA 99323  
509-546-8300

## Nearest Address

NE 10th St. Irrigon,  
Irrigon, OR 97844

## Driving Directions

Directions from Pasco to Irrigon Boat Launch

1. From Pasco, WA take US-395 S toward Kennewick Pendleton, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I82 E/ US395 S

Entering Oregon

2. Merge onto I-82E/US-395 S (21 mi)

3. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi )

4. Turn right onto US-730 W/6th St (signs for Weigh Station)

Continue to follow US-730 W (8.2 mi)

5. Turn right toward 10th St NE (249 ft)

6. Continue onto 10th St NE, Destination will be on the right (0.3 mi)



## Telegraph Island

J-275.9M

**Position - Location:** 45° 54.941', -119° 37.781' 45° 54' 56.5", -119° 37' 46.9" 45.91568, -119.62968 Irrigon

**Strategy Objective:** Deflection : Keep oil off of Telegraph Island

**Implementation:** High priority site, contact Environmental Unit if deployed - Anchor the middle of a 700' section of boom 100' upstream of Telegraph Island, deploy first 200' of each arm in a chevron formation (one arm to the NW & one to the SW) then position the remaining 150' of each arm parallel to the island's shoreline. Do not anchor boom within 100' of the island at any point. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day. Bring sorbent to distribute at shoreline if needed.

**Staging Area:** Remote : Irrigon Boat Ramp SA-J-282.6L

**Site Safety:** Slips, Trips, Falls, Water hazard, Shallow Water

**Field Notes:** Boat access only, launch at Irrigon Boat Ramp, BL-J-282.6L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Sensitive Nesting Species, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat, Wildlife Refuge



### Recommended Equipment

5 Each	Anchor - Danforth (or other appropriate type)
700 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

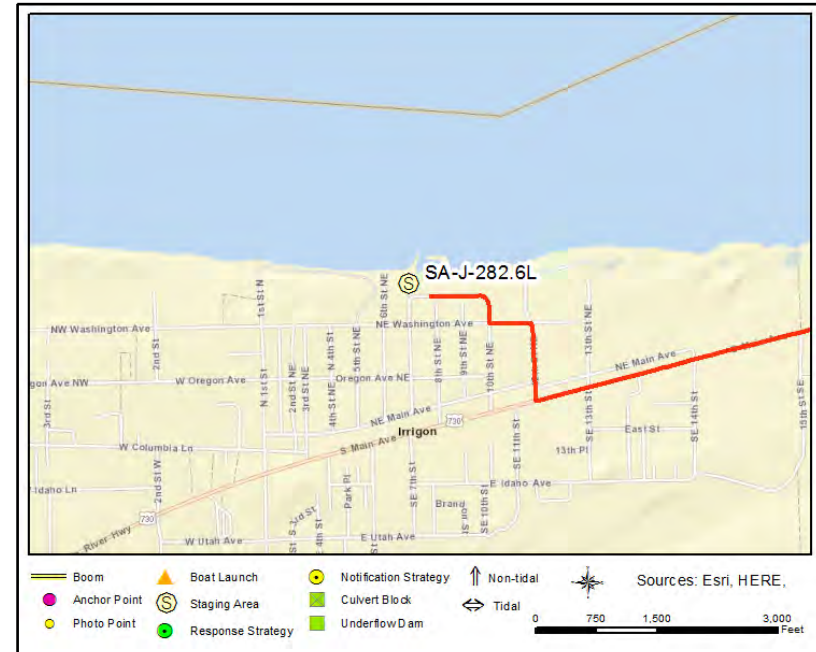
1 Boat Operator
3 Laborer
1 Supervisor

## Telegraph Island

J-275.9M



J-275.9M Photo: Upstream of Telegraph Island.



### Site Contact

#### USACE Bonneville pool

Primary Contact : Natural Resources Manager

Bonneville Dam, OR  
541-374-8344

### Nearest Address

NE 10th St. Irrigon,  
Irrigon, OR 97844

### Driving Directions

#### Directions to Irrigon Boat Ramp

1. Start at Highway 395, Kennewick, WA
2. Go southwest on I-82 (US-395 S) (11.77 miles)
3. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston (0.08 miles)
4. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor (0.15 miles)
5. Continue on US-730 (6th St) (8.06 miles)
6. Turn right on 12th St NE (0.19 miles)
7. Turn left on NE Washington Ave (0.1 miles)
8. Turn right (0.18 miles)
9. Continue on 7th St NE (NE Seventh St) (0.02 miles)
10. Finish at Irrigon Boat Ramp, 491 7th St NE, 97844, on the right

## Channel Northeast of Long Walk Island

J-277.3L

**Position - Location:** 45° 54.897', -119° 35.671' 45° 54' 53.8", -119° 35' 40.2" 45.91496, -119.59451 Irrigon

**Strategy Objective:** Exclusion : Keep oil out of the channel between the Oregon side of river and Long Walk Island.

**Implementation:** Use 1500' feet of boom. Could be done with less boom depending on river velocity. Crew will need waders due to shallow water. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Irrigon boat ramp, Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water.

**Field Notes:** Boat Access Only, launch from Irrigon Boat Ramp, BL-J-282.6L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge



### Recommended Equipment

3 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1500 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
6	Laborer
1	Supervisor

## Channel Northeast of Long Walk Island

J-277.3L

**Position - Location:** 45° 54.897', -119° 35.671' 45° 54' 53.8", -119° 35' 40.2" 45.91496, -119.59451 Irrigon

**Strategy Objective:** Exclusion : Keep oil out of the channel between the Oregon side of river and Long Walk Island.

**Implementation:** Use 1500' feet of boom. Could be done with less boom depending on river velocity. Crew will need waders due to shallow water. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Irrigon boat ramp, Boardman Marina

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water.

**Field Notes:** Boat Access Only, launch from Irrigon Boat Ramp, BL-J-282.6L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge



## Recommended Equipment

3	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1500	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
6	Laborer
1	Supervisor

**Paterson Road****J-277.7R**

**Position - Location:** 45° 55.964', -119° 35.563' 45° 55' 57.9", -119° 35' 33.8" 45.93274, -119.59272 Paterson

**Strategy Objective:** Collection : Collect oil at the end of Paterson Road.

**Implementation:** Use 1000 feet of boom to direct oil to a collection spot at the end of Paterson Road. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-J-277.7R/Paterson Slough gravel parking lot, room to park vehicles with trailers, no facilities

**Site Safety:** Slips, Trips, Falls, Water Hazard

**Field Notes:** Launch on site at BL-J-277.7R/Paterson Slough

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

3 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage (if collection)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor

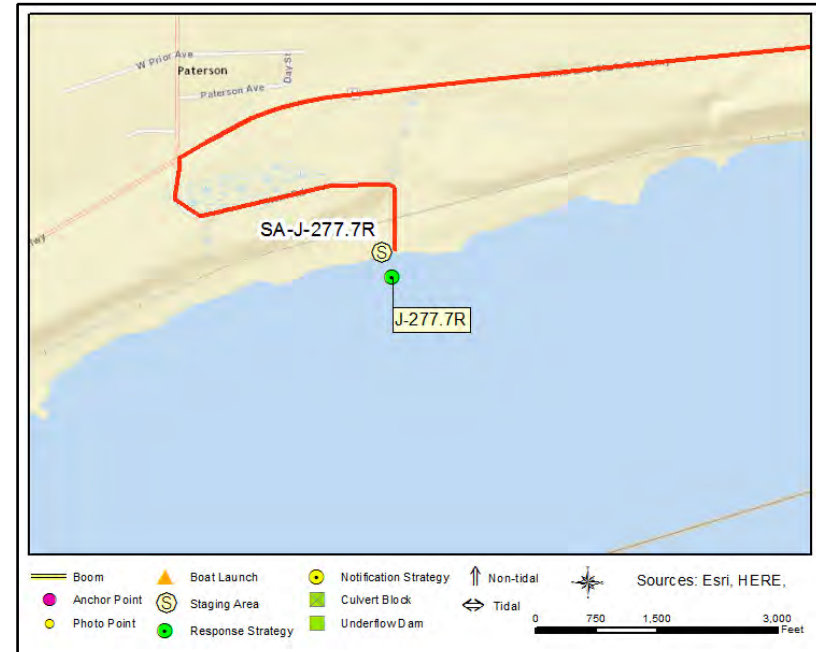


## Paterson Road

## J-277.7R



J-277.7R Photo: Shoreside at collection area.



### Site Contact

### Nearest Address

48915 Kent Road  
Paterson, WA 99345

### Driving Directions

Directions from Kennewick to Collection Site/Boat Launch

1. Start at U.S. 395, Kennewick, WA
2. Go southwest on I-82 (US-395 S) (9.65 miles)
3. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.33 miles)
4. Turn right on WA-14 (13.44 miles)
5. Turn left on Kent Rd (0.01 miles)
6. Follow Road down to boat launch/collection area.

**Paterson Slough****J-278.9M**

**Position - Location:** 45° 55.608', -119° 33.720' 45° 55' 36.5", -119° 33' 43.2" 45.92680, -119.56200 Irrigon

**Strategy Objective:** Deflection : Prevent oil from travelling up Paterson Slough. Also deflect oil to downstream collection strategy.

**Implementation:** Use 2 500' lengths of boom. May need to increase amount of boom based on conditions. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Irrigon boat ramp

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water.

**Field Notes:** Launch boat from Irrigon Boat Ramp, BL-J-282.6L

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations, Wildlife Refuge

**Recommended Equipment**

4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

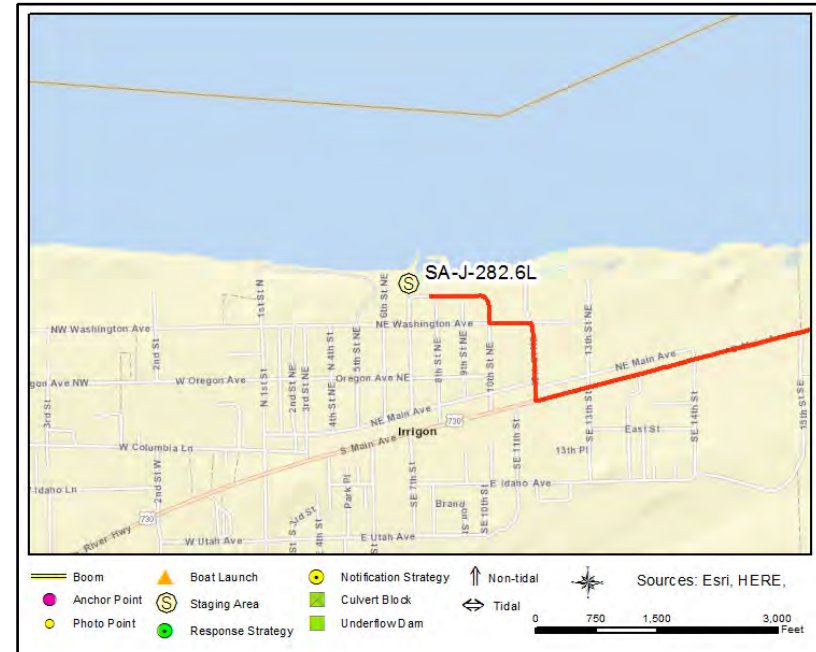
**Recommended Personnel**

1	Boat Operator
3	Laborer
1	Supervisor

## Paterson Slough

**J-278.9M**


J-278.9M Photo: Aerial overview of strategy area.



### Site Contact

### Nearest Address

NE 10th St. Irrigon,  
Irrigon, OR 97844

### Driving Directions

#### Directions to Irrigon Boat Ramp

1. Start at U.S. 395, Kennewick, WA
2. Go southwest on I-82 (US-395 S) (11.77 miles)
3. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston (0.08 miles)
4. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor (0.15 miles)
5. Continue on US-730 (6th St) (8.06 miles)
6. Turn right on 12th St NE (0.19 miles)
7. Turn left on NE Washington Ave (0.1 miles)
8. Turn right (0.18 miles)
9. Continue on 7th St NE (NE Seventh St) (0.02 miles)
10. Finish at Irrigon Boat Ramp, 491 7th St NE, 97844, on the right

**West of Christy Road****J-283.2R**

**Position - Location:** 45° 54.682', -119° 29.063' 45° 54' 40.9", -119° 29' 3.8" 45.91137, -119.48438 Irrigon

**Strategy Objective:** Deflection : Keep oil away from shallow water habitat.

**Implementation:** Anchor 1000' of boom to shore and tow boom to the SSW to deflect oil away from the shore. Bring skiff & waders for shallow water and beware of large underwater boulders in the area. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day.

**Staging Area:** Remote : Irrigon Boat Ramp SA-J-282.6L

**Site Safety:** Boulders in shallow water, slips, trips, & falls, water hazard

**Field Notes:** Launch boat from Irrigon boat ramp, BL-J-282.6L

**Watercourse:** River - Above a Dam - John Day Dam

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Nesting Species, Waterfowl and Shorebird Concentrations

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom
1 Each	Workboat(s) - (jon boat)

**Recommended Personnel**

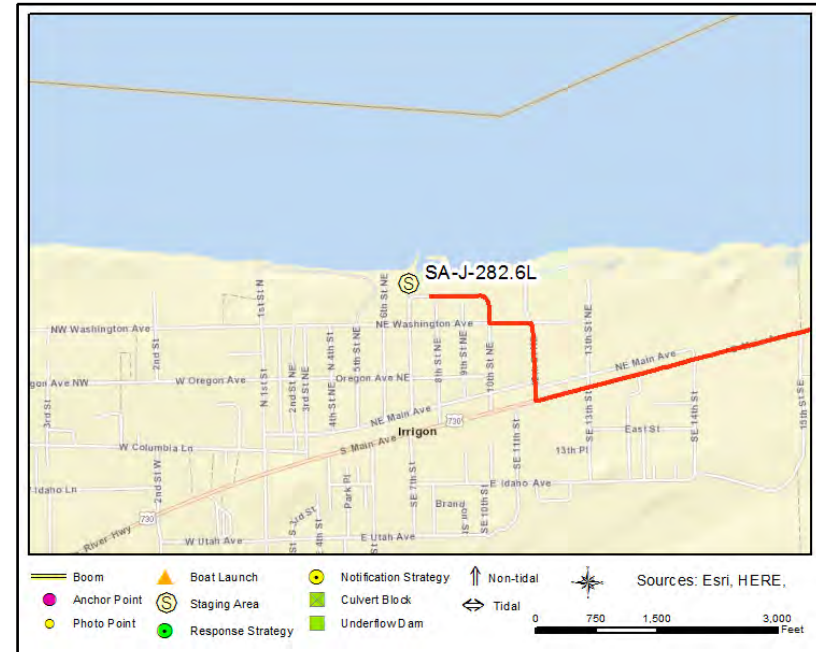
2 Boat Operator
3 Laborer
1 Supervisor

## West of Christy Road

J-283.2R



J-283.2R Photo: View of strategy area west of Christy Rd.



## Site Contact

## Nearest Address

NE 10th St. Irrigon,  
Irrigon, OR 97844

## Driving Directions

## Directions to Irrigon Boat Ramp

1. Start at U.S. 395, Kennewick, WA
2. Go southwest on I-82 (US-395 S) (11.77 miles)
3. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston (0.08 miles)
4. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor (0.15 miles)
5. Continue on US-730 (6th St) (8.06 miles)
6. Turn right on 12th St NE (0.19 miles)
7. Turn left on NE Washington Ave (0.1 miles)
8. Turn right (0.18 miles)
9. Continue on 7th St NE (NE Seventh St) (0.02 miles)
10. Finish at Irrigon boat ramp, 491 7th St NE, 97844, on the right



**Christy Road (FBS MP-187.2)****J-284.5R**

**Position - Location:** 45° 55.122', -119° 27.566' 45° 55' 7.3", -119° 27' 34.0" 45.91870, -119.45944 Plymouth

**Strategy Objective:** Collection : Collect oil as it moves down river.

**Implementation:** Use 1000' of boom to direct oil to shoreline for collection. Access is via a dirt road connected to Christy Road. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Room for Vac Truck on site, additional staging at Irrigon boat launch (BL-J-282.6L)

**Site Safety:** Slips, Trips, Falls, Water Hazard, & Active Railroad

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch Irrigon boat ramp

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources

**Recommended Equipment**

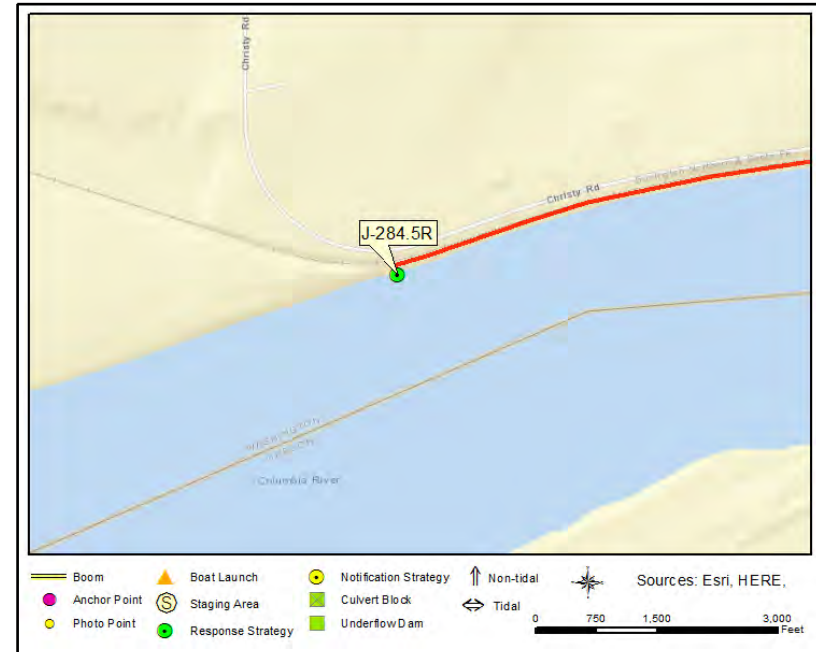
4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Each	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
4	Laborer
1	Supervisor

**Christy Road (FBS MP-187.2)****J-284.5R**

J-284.5R Photo: Shoreside view of collection area.

**Site Contact****BNSF Railroad**

Emergency Contact : Service Interruption Desk

WA

817-352-2832

**Nearest Address**34608 Christy Road  
Plymouth, WA 99346**Driving Directions**

Directions to strategy location from Pasco.

1. I-82 E/US-395 S toward Pendleton/Umatilla
2. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver
3. Turn right on WA-14
4. Turn left on S Plymouth Rd
5. Bear right on Christy Rd
6. Before crossing the railroad tracks turn left on dirt road. Follow road to strategy location.

**Wilcox Lane****J-287.1L**

**Position - Location:** 45° 54.796', -119° 24.175' 45° 54' 47.8", -119° 24' 10.5" 45.91327, -119.40292 Umatilla

**Strategy Objective:** Deflection : Prevent oil from impacting shallow water habitat.

**Implementation:** Use 700' of boom to deflect away from the shoreline. Strategy may not be needed when lake level is low. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-289.9R Plymouth Park

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch at BL-J-289.9R Plymouth Park

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Waterfowl and Shorebird Concentrations

**Recommended Equipment**

2 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
700 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
3	Laborer
1	Supervisor

## Wilcox Lane

J-287.1L

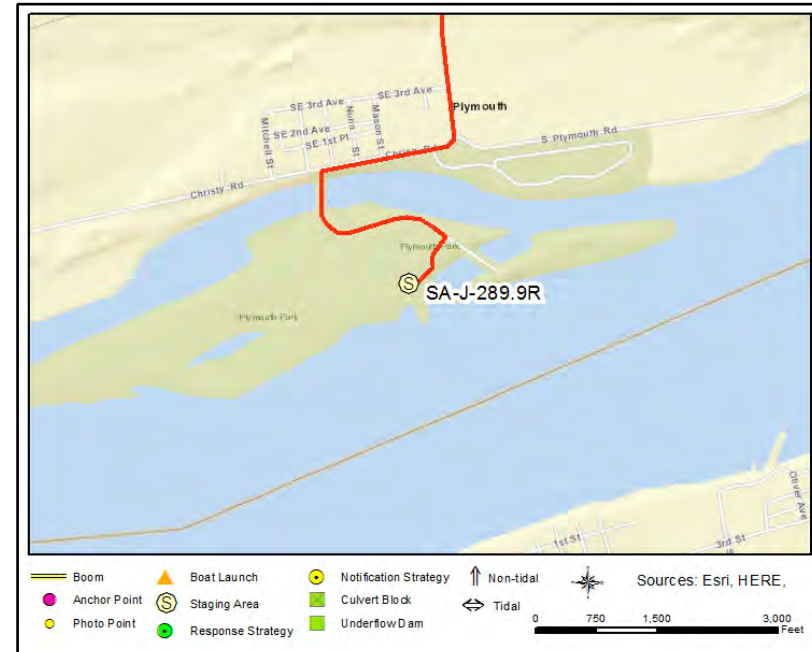


J-287.1L Photo: Shoreline anchor area.

## Site Contact

## Nearest Address

Christy Rd  
Plymouth, WA 99346



## Driving Directions

Directions to SA-J-289.9R Plymouth Park

1. From I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (0.7 mi)
2. Take the 1st left onto Plymouth Rd (0.7 mi)
3. Plymouth Rd turns slightly right and becomes Christie Rd (0.3 mi)
4. Take the second left (0.4 mi)
5. Take the first right toward the boat launch (377 ft)

Lat 45.929676, Long -119.352524

## Inlet to Umatilla Water Intake

J-288.0L

**Position - Location:** 45° 54.930', -119° 23.254' 45° 54' 55.8", -119° 23' 15.2" 45.91550, -119.38756 Umatilla

**Strategy Objective:** Exclusion : Deflect oil moving downstream to keep it out of the water intake cove

**Implementation:** Deploy 200' of boom, in a chevron configuration at the channel entrance to the water intake. Adjust angle of boom, placement and number of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Water intake facility with lots of parking on gravel drive all the way to the anchor points

**Site Safety:** Water hazard, slips, trips & falls, rip rap.

**Field Notes:** Launch from BL-J-290.8L/Port of Umatilla

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Downstream Resources, Water Intakes, Waterfowl and Salmonid Concentrations and Habitat



## Recommended Equipment

4 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
1	Laborer
1	Supervisor



## Inlet to Umatilla Water Intake

J-288.0L



J-288.0L Photo: Aerial view of the inlet to the water intake W of Umatilla



## Site Contact

## Water Resource Department (OR)

Primary Contact : Watermaster for the Middle Columbia River

OR

541-310-0620

## Nearest Address

38539 Southshore Dr  
Umatilla, OR 97882

## Driving Directions

1. Directions to on-site staging area, starting at BL-J-292.4L, 1710 Quincy Avenue, Umatilla, OR 97882
2. Go south on Quincy Ave toward 1st St (0.05 miles)
3. Turn right on 2nd St (0.27 miles)
4. Bear left on Nugent Ave (0.06 miles)
5. Turn right on 3rd St (County Road 1275) (0.09 miles)
6. Turn left on County Road 1275 (Switzler Ave) (0.17 miles)
7. Turn right on US-730 (6th St) (1.6 miles)
8. Turn right on Southshore Dr (1 miles)
9. Turn right on a gravel road at 45.912168 N, -119.387022 W. Stay to the right of the water intake facility to the end of the road.

**W end of Plymouth Park****J-288.8R**

**Position - Location:** 45° 55.718', -119° 22.344' 45° 55' 43.1", -119° 22' 20.6" 45.92863, -119.37239 Plymouth

**Strategy Objective:** Exclusion : Keep oil from travelling up the N channel of Plymouth Island

**Implementation:** Only if conditions warrant - Deploy 600' of boom from the building on river right to the closest accessible point on the W end of Plymouth Island. May need waders. Adjust angle of boom, placement and number of anchors, depending on conditions of the day.

**Staging Area:** Remote : Stage at SA-J-289.9R/Plymouth Park

**Site Safety:** Water hazard, slips, trips & falls.

**Field Notes:** Launch from BL-J-289.9R/Plymouth Park

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Bald Eagle, Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

2 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
3	Laborer
1	Supervisor

## W end of Plymouth Park

J-288.8R



J-288.8R Photo: Upstream view of the NW end of Plymouth Park

## Site Contact

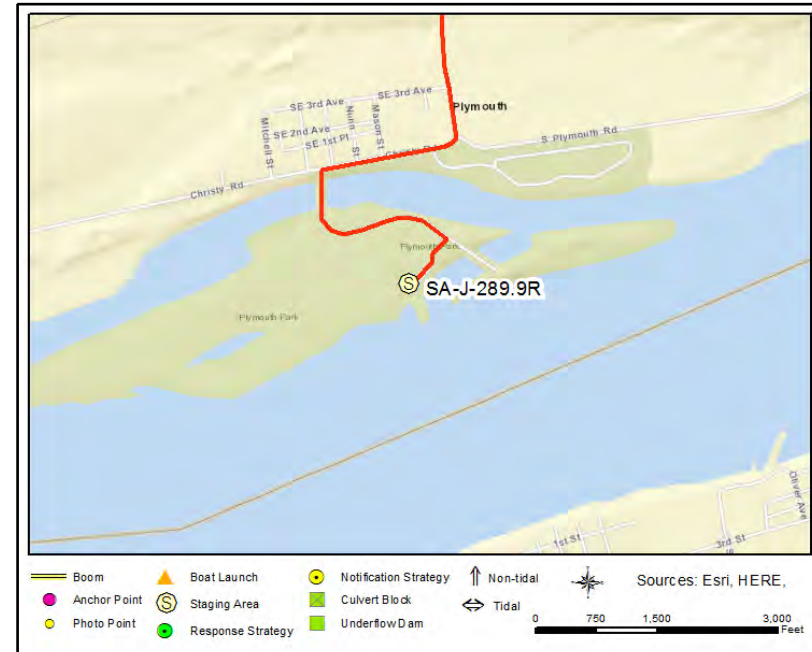
**USACE John Day pool**

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

Christy Rd  
Plymouth, WA 99346



## Driving Directions

1. Directions to SA-J-289.9R/Plymouth Park, starting from I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (0.7 mi)
  2. Take the 1st left onto Plymouth Rd (0.7 mi)
  3. Plymouth Rd turns slightly right and becomes Christie Rd (0.3 mi)
  4. Take the second left (0.4 mi)
  5. Take the first right toward the boat launch (377 ft)
- Lat 45.929676, Long -119.352524

## Umatilla River

J-289.6L

**Position - Location:** 45° 55.121', -119° 21.291' 45° 55' 7.2", -119° 21' 17.5" 45.91868, -119.35485 Umatilla

**Strategy Objective:** Exclusion : Prevent oil from entering/exiting the river mouth.

**Implementation:** Use 800' of exclusion boom from one side of the river to the other. Adjust quantity and placement of anchors based on conditions of the day.

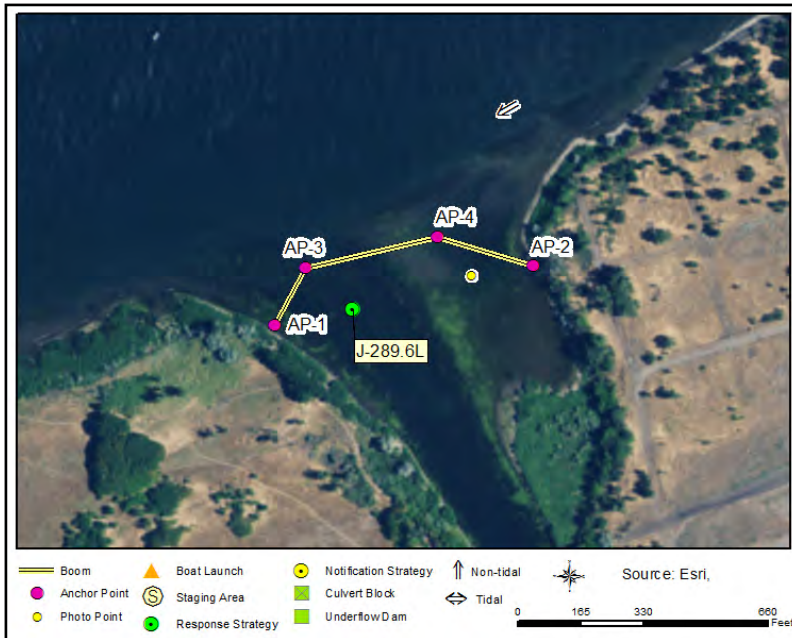
**Staging Area:** Remote : Stage at SA-J-290.8L/Port of Umatilla

**Site Safety:** Slips, Trips, Falls, Water Hazard, Shallow Water

**Field Notes:** Launch from BL-J-290.8L/Port of Umatilla

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Resident Fish, Salmon Concentrations and Habitat, Sensitive Resources Nearby, Waterfowl and Shorebird Concentrations



## Recommended Equipment

3 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



## Umatilla River

J-289.6L



J-289.6L Photo: Eastern shoreline anchor area.



## Site Contact

## Port of Umatilla

Primary Contact :

Umatilla, OR 97882  
541-922-3939

## Nearest Address

1710 Quincy Avenue  
Umatilla, OR 97882

## Driving Directions

1. Directions to SA-J-290.8L from Pasco, WA
2. Merge onto US-395 S (1.5 mi)
3. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (5.2 mi)
4. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US395 S
5. Entering Oregon (21.0 mi)
6. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
7. Turn right onto US-730 W/6th St (signs for Weigh Station) (292 ft)
8. Take the 1st right onto Brownell Blvd (0.4 mi)
9. Turn left onto 3rd St/ Co1275 Rd (0.3 mi)
10. Take the 2nd right onto Quincy Ave, destination will be on the right



**Plymouth Park Boat Launch****J-289.9R**

**Position - Location:** 45° 55.738', -119° 21.066' 45° 55' 44.3", -119° 21' 3.9" 45.92897, -119.35109 Plymouth

**Strategy Objective:** Collection : Collect oil moving downriver, and keep oil out of boat launch area while keeping launch open

**Implementation:** Deploy 1000' of boom in a chevron formation with the apex on a spit of land directly across from the boat launch. Use 600' set to the SE to divert oil toward the apex for collection, and 400' set to the SW to deflect oil away from opening to the boat launch area while keeping the launch open. Adjust angle of boom, placement & quantity of anchors depending on conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-J-289.9R/Plymouth Park

**Site Safety:** Water hazard, slips, trips & falls

**Field Notes:** Lanch on site at BL-J-289.9R/Plymouth Park

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Bald Eagle, Boat Launch/Ramp, Downstream Resources, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

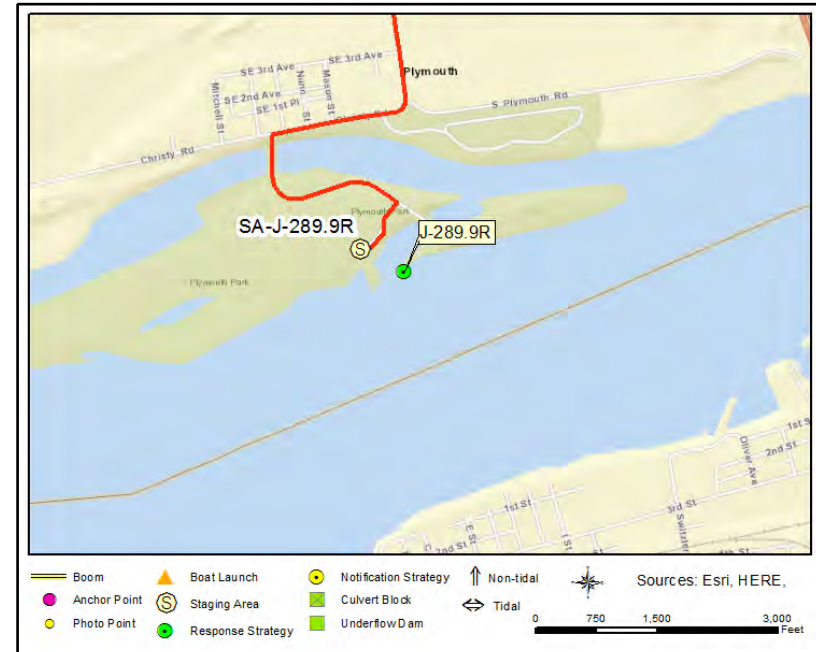
**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor

## Plymouth Park Boat Launch

**J-289.9R**


J-289.9R Photo: View of strategy location from the Park boat launch



### Site Contact

#### USACE John Day pool

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

### Nearest Address

Ble Sky Pr S E  
Plymouth, WA 99346

### Driving Directions

1. Directions to SA-J-289.9R/Plymouth Park, starting from I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (0.7 mi)
  2. Take the 1st left onto Plymouth Rd (0.7 mi)
  3. Plymouth Rd turns slightly right and becomes Christie Rd (0.3 mi)
  4. Take the second left (0.4 mi)
  5. Take the first right toward the boat launch (377 ft)
- Lat 45.929676, Long -119.352524

## Umatilla Marina

J-290.8L

**Position - Location:** 45° 55.577', -119° 19.900' 45° 55' 34.6", -119° 19' 54.0" 45.92628, -119.33167 Umatilla

**Strategy Objective:** Deflection : Keep oil out of Marina (keep boat launch open)

**Implementation:** Anchor 00' of boom to the pilings at the end of the Jetty and tow boom out to the WNW (keep boat launch open). Adjust angle of boom, quantity and placement of anchors, based on conditions of the day.

**Staging Area:** Onsite : Stage at the Port of Umatilla Marina

**Site Safety:** Slips, trips, falls & water hazard.

**Field Notes:** Launch on site at the Umatilla Marina

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Marina, Recreational Boating



## Recommended Equipment

2 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

## Umatilla Marina

## J-290.8L



J-290.8L Photo: Anchor point for Port of Umatilla Marina deflection strategy



### Site Contact

#### Port of Umatilla

Land/Property Contact :

Umatilla, OR 97882  
541-922-3939

### Nearest Address

1710 Quincy Avenue  
Umatilla, OR 97882

### Driving Directions

1. Directions to BL-J-290.8L/Port of Umatilla Marina from Pasco, WA
2. Merge onto US-395 S (1.5 mi)
3. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (5.2 mi)
4. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US395 S  
Entering Oregon (21.0 mi)
5. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
6. Turn right onto US-730 W/6th St (signs for Weigh Station) (292 ft)
7. Take the 1st right onto Brownell Blvd (0.4 mi)
8. Turn left onto 3rd St/ Co1275 Rd (0.3 mi)
9. Take the 2nd right onto Quincy Ave, destination will be on the right



## Port of Umatilla Marina

J-290.9L

**Position - Location:** 45° 55.645', -119° 19.771' 45° 55' 38.7", -119° 19' 46.2" 45.92742, -119.32951 Umatilla

**Strategy Objective:** Collection : Collect oil moving downstream

**Implementation:** Anchor 1100' of boom to shore and tow to the NE, if conditions allow anchor to bridge piling. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Gravel parking close to the anchor point, plus all needed facilities at the Port of Umatilla Marina

**Site Safety:** Water hazard, slips, trips, & falls.

**Field Notes:** Launch on site at the Port of Umatilla Marina, lots of room for staging and vac truck can easily access the shoreline at the collection point.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources



### Recommended Equipment

5 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1100 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1 Boat Operator
4 Laborer
1 Supervisor



## Port of Umatilla Marina

J-290.9L

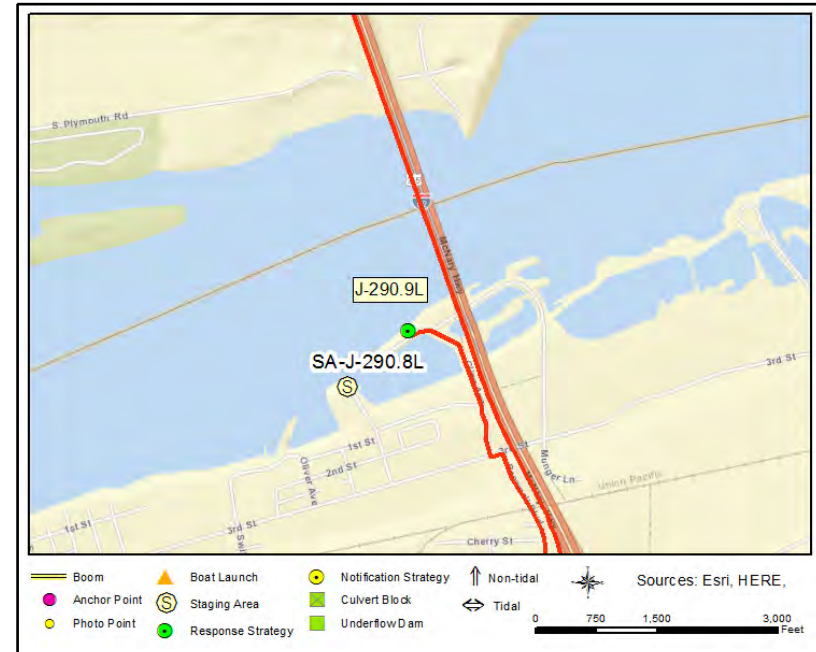


J-290.9L Photo: View of the train and highway bridges from the Port of Umatilla Marina

## Site Contact

## Nearest Address

1710 Quincy Avenue  
Umatilla, OR 97882



## Driving Directions

1. Directions to BL-J-290.8L/Port of Umatilla Marina from Pasco, WA
2. Merge onto US-395 S (1.5 mi)
3. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (5.2 mi)
4. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US395 S  
Entering Oregon (21.0 mi)
5. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
6. Turn right onto US-730 W/6th St (signs for Weigh Station) (292 ft)
7. Take the 1st right onto Brownell Blvd (0.4 mi)
8. Turn left onto 3rd St/ Co1275 Rd (0.3 mi)
9. Take the 1st right, destination will be on the right

**Plymouth Park East****J-291.0R**

**Position - Location:** 45° 56.053', -119° 19.838' 45° 56' 3.2", -119° 19' 50.3" 45.93422, -119.33064 Umatilla

**Strategy Objective:** Deflection : Keep oil out of the channel on the N side of Plymouth Park island

**Implementation:** Anchor 1000' of boom on the N shore at the base of the bridge on the W, set boom angle to the SW. Adjust angle of boom, quantity and placement of anchors depending on conditions of the day. Bring waders to access shoreline in low water conditions.

**Staging Area:** Remote : Stage across the river at SA-J-290.8L/Port of Umatilla, it is ~1/2 mile to the site, or at Plymouth Park

**Site Safety:** Water hazard, slips, trips & falls.

**Field Notes:** Launch from BL-J-290.8L/Port of Umatilla

**Watercourse:** River - Above a Dam - John Day pool

**Resources at Risk:** Bald Eagle, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetlands

**Recommended Equipment**

5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

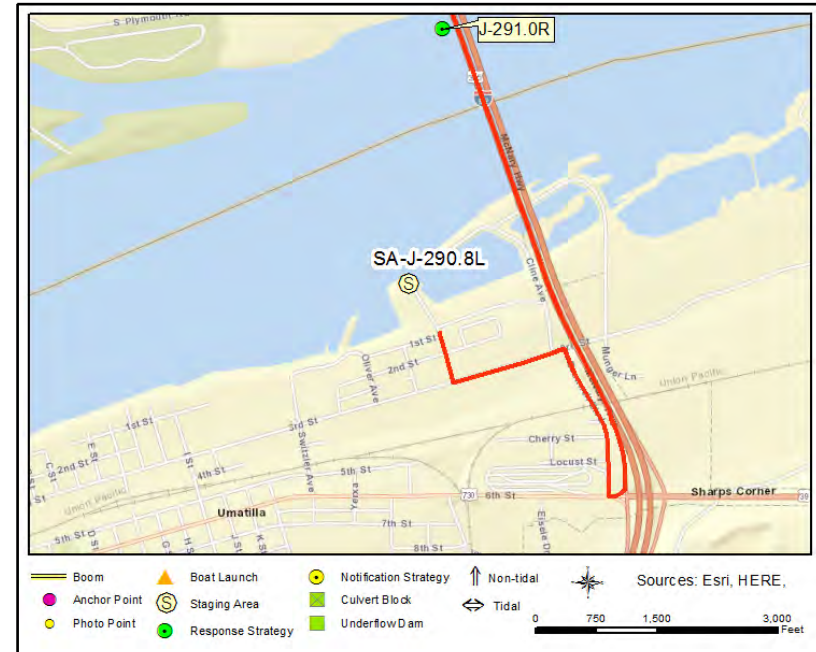
1	Boat Operator
4	Laborer
1	Supervisor

## Plymouth Park East

J-291.0R



J-291.0R Photo: Aerial view of Plymouth Park East N shore anchor point



## Site Contact

**USACE John Day pool**

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

1710 Quincy Avenue  
Umatilla, OR 97882

## Driving Directions

Directions from Plymouth to Port of Umatilla Boat Launch & Staging Area BL-J-290.8L

1. Start at Interstate 82 and Highway 14, Plymouth, WA 99346
2. Go east on SE 3rd Ave toward S Plymouth Rd (0.02 miles)
3. Turn left on S Plymouth Rd (0.57 miles)
4. Turn right on WA-14 (0.75 miles)
5. Turn right onto ramp and go on I-82 E toward Umatilla (1.79 miles)
6. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston (0.08 miles)
7. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor (0.15 miles)
8. Continue on US-730 (6th St) (0.01 miles)
9. Turn right on Brownell Blvd (0.37 miles)
10. Turn left on 3rd St (County Road 1275) (0.27 miles)
11. Turn right on Quincy Ave (0.12 miles)
12. Finish at 1710 Quincy Avenue, 97882, on the left



**John Day Lock, downstream****J-292.4R**

**Position - Location:** 45° 56.388', -119° 18.179' 45° 56' 23.3", -119° 18' 10.8" 45.93980, -119.30299 Kennewick

**Strategy Objective:** Collection : Keep oil from moving downstream

**Implementation:** Deploy two sections of boom across the downstream section of the lock, a 100' section at the area where the lock starts to widen out, and the second, a 500' section of boom, should be deployed at the end of the lock. Both sections of boom should be set at an angle running from NE to SW so that oil can be collected at the SW corners. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day. Use vac truck or skimmer with portable storage; additional pumps may be needed depending on water level.

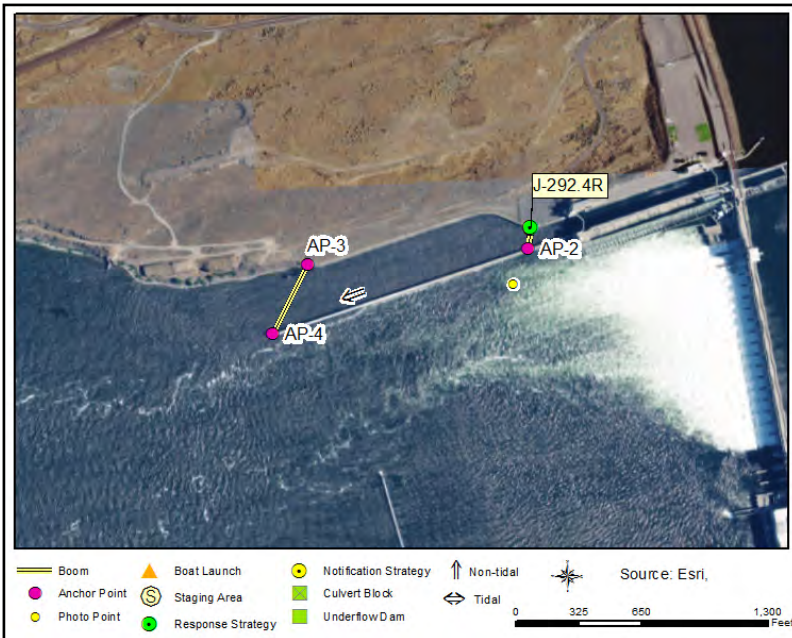
**Staging Area:** Onsite : Contractors must call McNary Dam control at 541-922-2231 to access site.

**Site Safety:** Water hazard, heavy equipment, slips, trips & falls.

**Field Notes:** Launch from BL-J-290.8L/Port of Umatilla

**Watercourse:** River - Below a Dam - Site is at the downstream side of the McNary Dam in the lock, but considered to be in the John Day pool

**Resources at Risk:** Downstream Resources, Lock and Dam

**Recommended Equipment**

2 Each	Anchor - Danforth (or other appropriate type)
4 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Pump - Diaphragm Pump
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

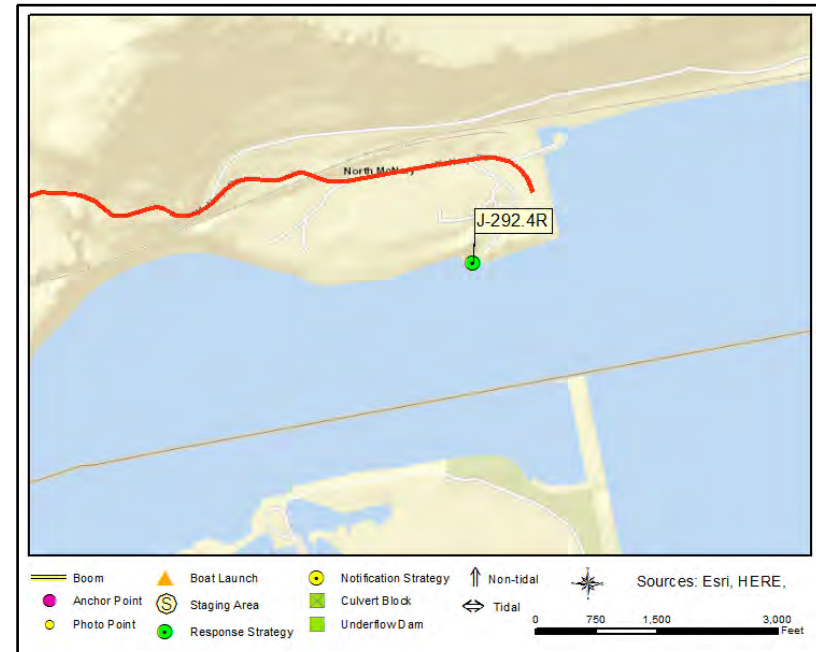
1 Boat Operator
3 Laborer
1 Supervisor

## John Day Lock, downstream

J-292.4R



J-292.4R Photo: Downstream aerial view of the McNary Lock



## Site Contact

**USACE McNary Control Room**

Pre-Notification Required :

WA

541-922-2231

## Nearest Address

81226 Mc Nary Rd  
Kennewick, WA 99338

## Driving Directions

1. Directions to the WA gate for McNary Dam & Lock. Starting at 6th street Umatilla, OR
2. Go east on US-730 (6th St) toward Yerxa Ave (0.82 miles)
3. Turn left onto ramp and go on I-82 W/US-395 N toward Kennewick/Spokane (1.77 miles)
4. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.26 miles)
5. Turn right on McNary Rd (2 miles)
6. Stay to the right until you reach the access gate. Finish at 81226 Mc Nary Rd, 99338



**LePage Park campground (J-219.1L)****JDR-0.5L**

**Position - Location:** 45° 43.537', -120° 38.896' 45° 43' 32.2", -120° 38' 53.8" 45.72561, -120.64827 Arlington

**Strategy Objective:** Collection : Divert oil to shore for collection - protect downstream resources

**Implementation:** Call USACE, LePage Park, at 541-506-7819 or 541-739-2713 to have them clear campground if necessary. Anchor 1000' of boom to shore at the SE end of the park, tow the boom to the SE to the middle of the river and anchor offshore. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day.

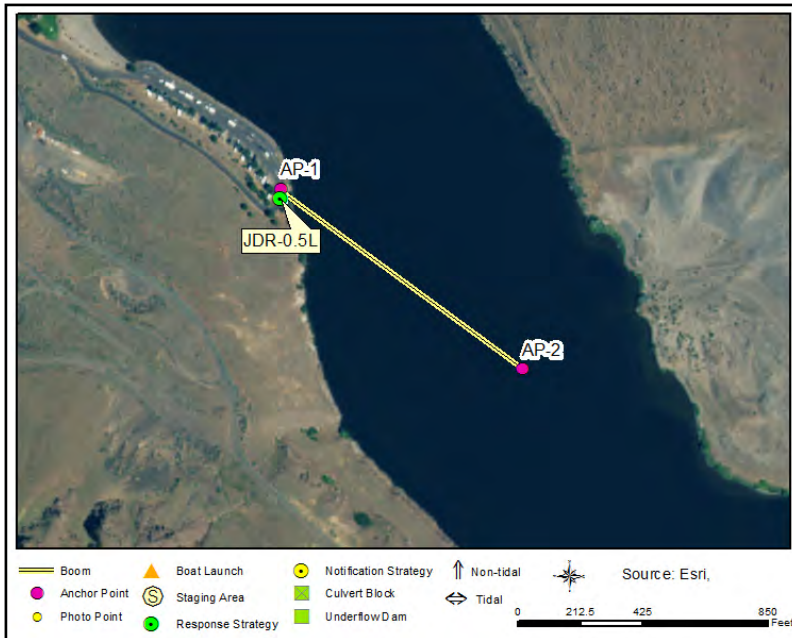
**Staging Area:** Onsite : Stage at LePage Park campground

**Site Safety:** Water hazard, public campground, slips, trips & falls.

**Field Notes:** Launch downstream at BL-JDR-0.2L/Le Page boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources, Public Recreation Site/Area, Shorebird Concentrations, Waterfowl and Salmonid Concentrations and Habitat,

**Recommended Equipment**

4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1 Boat Operator
4 Laborer
1 Supervisor

**LePage Park campground (J-219.1L)****JDR-0.5L**

**Position - Location:** 45° 43.537', -120° 38.896' 45° 43' 32.2", -120° 38' 53.8" 45.72561, -120.64827 Arlington

**Strategy Objective:** Collection : Divert oil to shore for collection - protect downstream resources

**Implementation:** Call USACE, LePage Park, at 541-506-7819 or 541-739-2713 to have them clear campground if necessary. Anchor 1000' of boom to shore at the SE end of the park, tow the boom to the SE to the middle of the river and anchor offshore. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Stage at LePage Park campground

**Site Safety:** Water hazard, public campground, slips, trips & falls.

**Field Notes:** Launch downstream at BL-JDR-0.2L/Le Page boat launch

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Downstream Resources, Public Recreation Site/Area, Shorebird Concentrations, Waterfowl and Salmonid Concentrations and Habitat,

**Recommended Equipment**

4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

1	Boat Operator
4	Laborer
1	Supervisor

## **APPENDIX 4B**

### **Notification Strategy 2-Pagers**

## NOTIFICATION STRATEGIES - LIST

**J-216.5-N**

**J-270.1L-N**

**J-281.5L-N**

**M-292.6-N**

**M-309.4-N**

## John Day Lock &amp; Dam Notification

J-216.5-N

**Position - Location:** 45° 42.928', -120° 41.551' 45° 42' 55.7", -120° 41' 33.1" 45.71546, -120.69252 Rufus

**Strategy Objective:** Notification : Notify the John Day Lock & Dam so that they can take action to protect their lock and fish ladders

**Implementation:** Call Control Room Operator at the John Day Lock & Dam at 541-298-9712 and inform them of any significant oil spill or potential spill that threatens to impact their lock, spillway, or fish ladders, so they can take action to protect the resources under their control, including deploying any USACE protection strategies in the area, managing flow through the spillway, and adjusting the locks

**Field Notes:** USACE has the facilities to establish an incident command post on site. Responders should work with USACE personnel to gain access to facility property and recreation areas after hours. Those deploying GRP strategies on USACE property will need to be escorted.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Lock and Dam

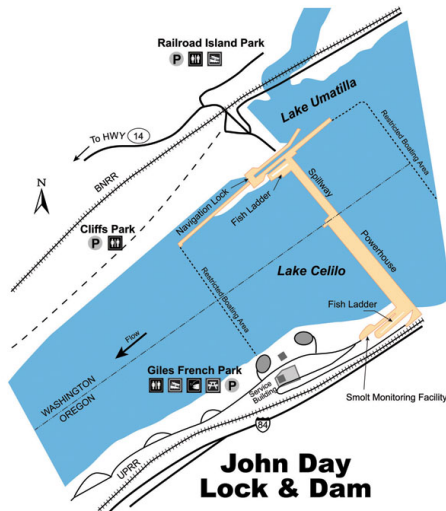
**Communication Process and Action:**

Call John Day Lock & Dam Control Room Operator (24/7) 541-298-9712 and inform them of any significant oil spill or potential spill that threatens to impact their lock, spillway, or fish ladders, so they can take action to protect the resources under their control. Actions taken by USACE might include: deploying any USACE protection strategies in the area, protecting their fish ladders, modifying flow through the spillway, or adjusting the locks to exclude or collect oil, based on the situation.

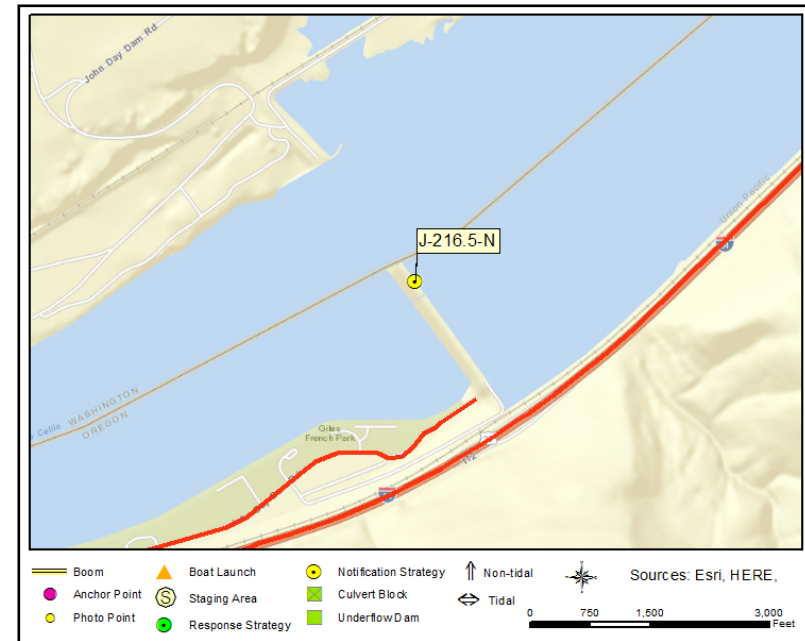


## John Day Lock &amp; Dam Notification

J-216.5-N



J-216.5-N Photo: Map of John Day Lock &amp; Dam



## Site Contact

**USACE John Day Control Room**

Emergency Contact : Emergency contact &amp; access to dam

541-298-9712

## Nearest Address

John Day Dam Rd  
Rufus, OR 97065

## Driving Directions

- 1Directions to the John Day Dam on the Oregon Side.
1. Start at Boardman, Orego
  2. Go west on Boardman Ave NE toward Boardman Ave/N Main St 0.05 miles)
  3. Turn left on N Main St 0.08 miles)
  4. Turn right onto ramp and go on I 84 W/US-30 W (53.91 miles)
  5. At exit 109 take ramp on the right to John Day Dam toward Rufus (0.3 miles)
  6. Turn right 0.09 miles)
  7. Bear right on John Day Dm (John Day Dam Ln) 0.07 miles)
  8. Continue along John Day Dam Road up to the Dam

## City of Boardman Public Works Department

J-270.1L-N

**Position - Location:** 45° 50.931', -119° 41.963' 45° 50' 55.8", -119° 41' 57.8" 45.84885, -119.69938 Boardman

**Strategy Objective:** Notification : Alert to need to monitor and potentially shut off transient, non-community well located less than 500 feet from river

**Implementation:** Determine if water intake/well need to be shut down.

**Field Notes:** This well is shown as being both a surface water and groundwater withdrawal.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Public Health and Safety, Water Intakes

**Communication Process and Action:**

Call 541-571-0272, Public Works Director 24 hour #



## City of Boardman Public Works Department

J-270.1L-N

No Photograph Available

J-270.1L-N Photo: No Photo Available



## Site Contact

**City of Boardman Public Works**

Emergency Contact : Director of Public Works  
 200 City Center Circle  
 Boardman, OR 97818  
 541-571-0272

## Nearest Address

1A Marine Drive  
 Boardman, OR 97818

## Driving Directions

1. Directions to the City of Boardman Public Works Department, starting from McNary Highway, Umatilla, OR
2. Go west on US-730 (6th St) toward I St (14.91 miles)
3. Make sharp left (0.04 miles)
4. Take ramp and go on I-84 W/US-30 W (3.8 miles)
5. At exit 164 take ramp toward Boardman (0.28 miles)
6. Turn right on N Main St (0.45 miles)
7. Bear right on Marine Dr NE (0.01 miles)
8. Finish at 1A Marine Drive, 97818, on the right

## City of Irrigon Public Works

J-281.5L-N

**Position - Location:** 45° 54.217', -119° 31.027' 45° 54' 13.0", -119° 31' 1.6" 45.90362, -119.51712 Irrigon

**Strategy Objective:** Notification : Alert to need to monitor and potentially shut off large municipal well located less than 500 feet from river bank.

**Implementation:** May shut down intakes or wells

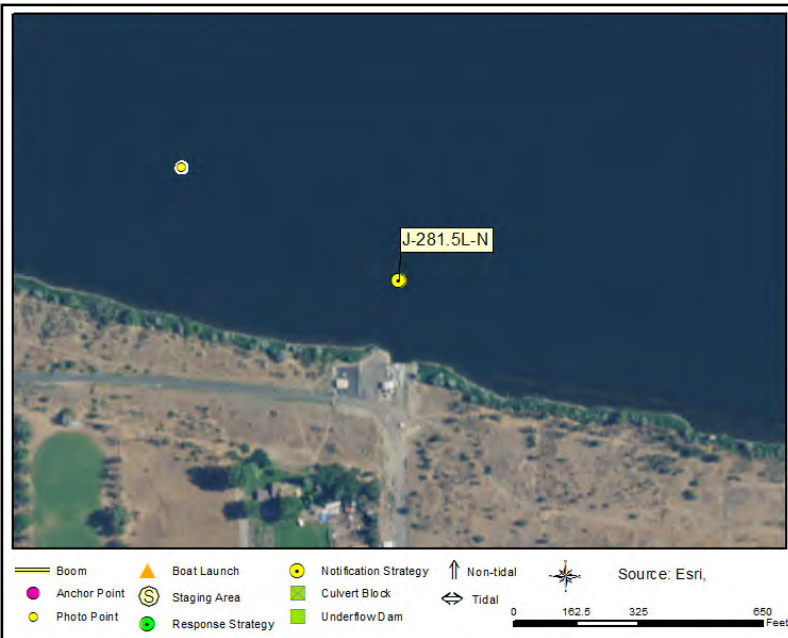
**Field Notes:** This well is shown as being both a surface water and groundwater withdrawal. Well serves multiple municipalities, including the cities of Umatilla and Hermiston.

**Watercourse:** River - Above a Dam - John Day Pool

**Resources at Risk:** Public Health and Safety, Water Intakes

**Communication Process and Action:**

Call 541-922-6022, Public Works Director, Keith White

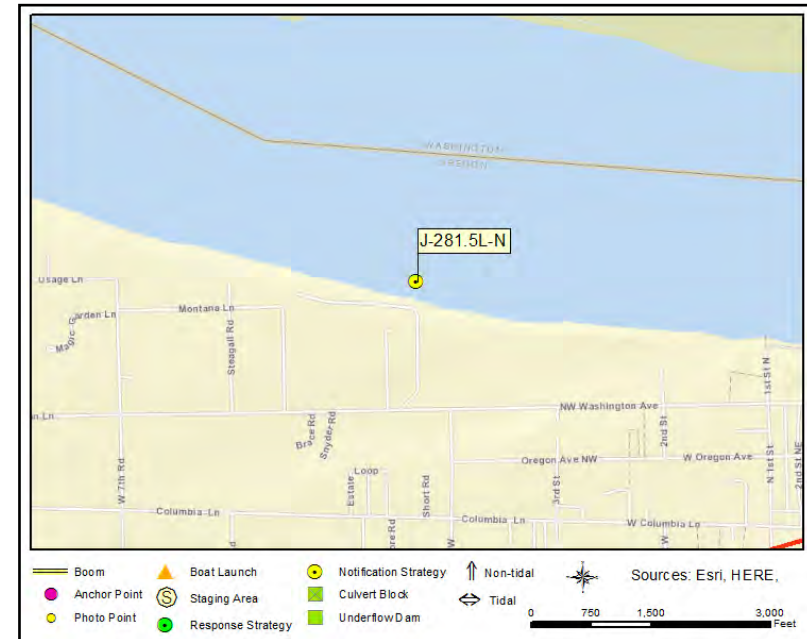


## City of Irrigon Public Works

J-281.5L-N

No Photograph Available

J-281.5L-N Photo: No Photo Available



## Site Contact

**City of Irrigon Public Works Dept.**

Emergency Contact : Public Works Director  
 1095 North East Main Avenue  
 Irrigon, OR 97844  
 541-922-6022

## Driving Directions

1. Directions to City of Boardman Pulic Works Department, starting at McNary Highway, Umatilla, OR
2. Go northwest on I-82 (US-395 N) toward 131 (0.76 miles)
3. At exit 131 take ramp on the right to WA-14 W toward Plymouth/Vancouver (0.26 miles)
4. Turn left on WA-14 (0.11 miles)
5. Make sharp left onto ramp and go on I-82 E toward Umatilla/Pendleton (1.79 miles)
6. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston (0.08 miles)
7. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor (0.15 miles)
8. Continue on US-730 (6th St) (8.72 miles)
9. Turn left on 1st St W (S First St) (0.28 miles)
10. Turn right on W California Ave (0.16 miles)
11. Finish at 1095 North East Main Avenue, 97844, on the left



**McNary Lock & Dam Notification****M-292.6-N**

**Position - Location:** 45° 56.162', -119° 17.795' 45° 56' 9.7", -119° 17' 47.7" 45.93603, -119.29659 Umatilla

**Strategy Objective:** Notification : Notify the McNary Lock & Dam so that they can take action to protect their lock and fish ladders

**Implementation:** Call McNary Lock & Dam Control Room Operator at 541-922-2231 and inform them of any significant oil spill or potential spill that threatens to impact their lock, spillway, or fish ladders, so they can take action to protect the resources under their control, including deploying any USACE protection strategies in the area, managing flow through the spillway, and adjusting the locks.

**Field Notes:** USACE has the facilities to establish an incident command post on site. Responders should work with USACE personnel to gain access to facility property and recreation areas after hours. Those deploying GRP strategies on USACE property will need to be escorted.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Lock and Dam

**Communication Process and Action:**

Call McNary Lock & Dam Control Room Operator (24/7) 541-922-2231 and inform them of any significant oil spill or potential spill that threatens to impact their lock, spillway, or fish ladders, so they can take action to protect the resources under their control. Actions taken by USACE might include: deploying any USACE protection strategies in the area, protecting their fish ladders, modifying flow through the spillway, or adjusting the locks to exclude or collect oil, based on the situation.

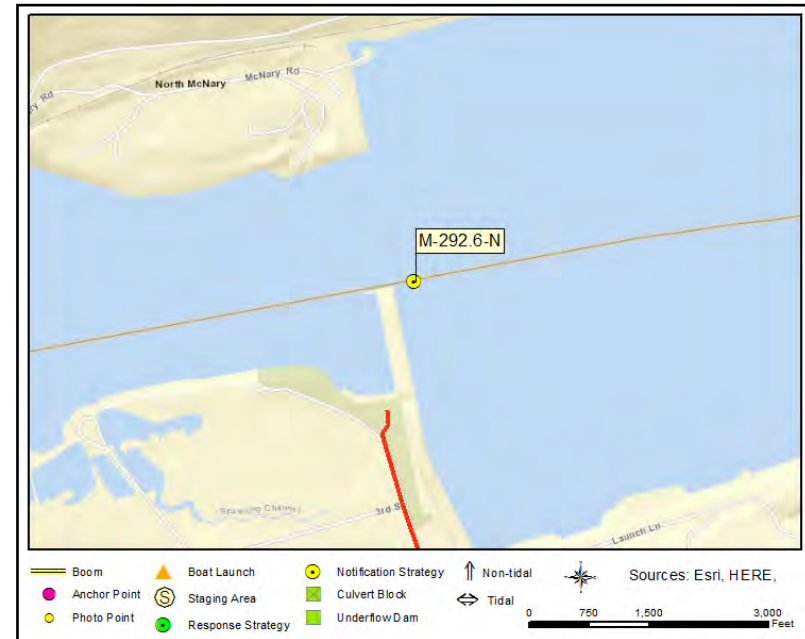


## McNary Lock &amp; Dam Notification

M-292.6-N



M-292.6-N Photo: Aerial view of the McNary Lock &amp; Dam



## Site Contact

**USACE McNary Control Room**

Emergency Contact :

WA

541-922-2231

## Nearest Address

100 Launch Lane  
Umatilla, OR 97882

## Driving Directions

Directions to McNary Lock &amp; Dam on the OR side of the Columbia River

1. Starting at I-82 take Exit 1 toward 6th Street
2. Turn right onto 6th St (0.7 mi)
3. Turn left onto Devore Rd (0.7 mi)
4. Turn right toward Deschutes Ave (171 ft )
5. Continue onto Deschutes Ave (0.1 mi)
6. Stay to the left toward the USACE McNary Lock & Dam (0.3 mi)

## Oregon Water Resources Dept

M-309.4-N

**Position - Location:** 45° 59.974', -118° 59.249' 45° 59' 58.5", -118° 59' 14.9" 45.99957, -118.98749 Pendleton

**Strategy Objective:** Notification : Notify Oregon Water Resources Department for the need for water intake closures

**Implementation:** The Oregon Water Resources Department will notify the following municipalities' who divert water directly or indirectly (Ranney wells, shallow gravel wells) from the Columbia River for Human Consumption: Port of Umatilla 541-922-3224, City of Hermiston 541-567-5521, City of Irrigon 541-922-2047, City of Boardman 541-481-9252

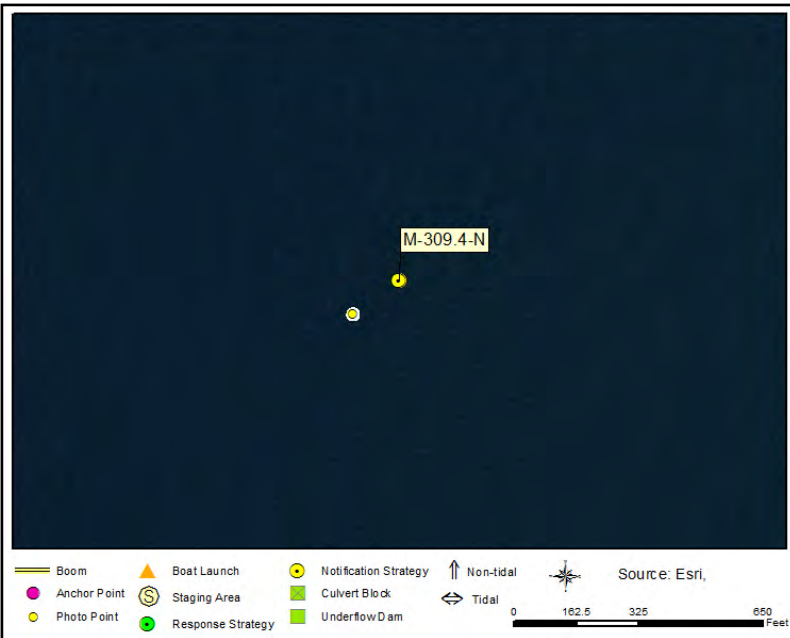
**Field Notes:** As of February 2015, the Oregon Water Resources Department does not know of any other municipalities in the area of the Middle Columbia River-GRP (between river mile 149-291) who have water rights and are diverting water directly or indirectly from the

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Water Intakes

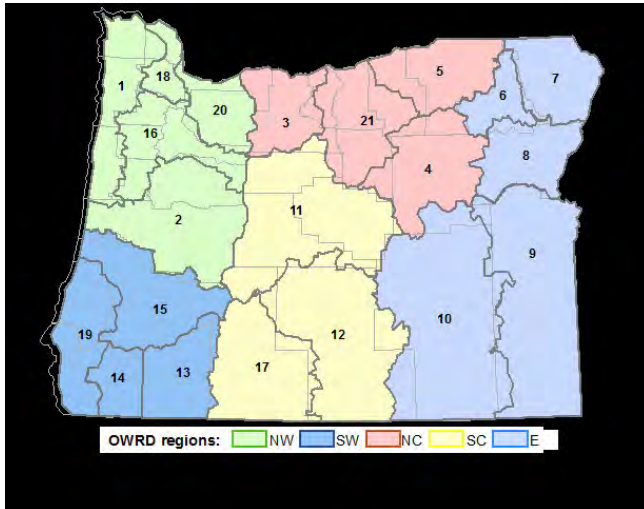
## Communication Process and Action:

Call Michael Ladd, Oregon Water Resources Dept., 541-278-5456 wk., 541-310-0620 cell

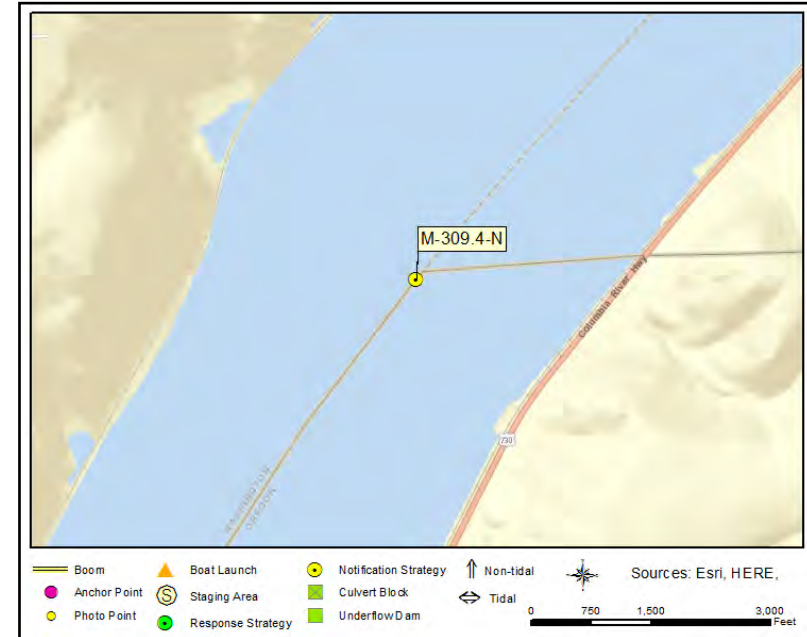


## Oregon Water Resources Dept

## M-309.4-N



M-309.4-N Photo: OWRD OR Water Regional Districts



## Site Contact

**Oregon Water Resources Department**

Primary Contact : OR Water Master Regions: 3, 21, & 5  
 116 Southeast Dorion Avenue  
 Pendleton, OR 97801  
 541-310-0620

## Nearest Address

116 Southeast Dorion Avenue  
 Pendleton, OR 97801

## Driving Directions

1. Directions to Oregon Water Resources Department/Umatilla County Watermaster's Office, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (0.21 miles)
3. Bear right onto ramp and go on I-82 E toward Pendleton/I-84/Portland (9.4 miles)
4. Take ramp on the left and go on I-84 E toward Pendleton (31.52 miles)
5. At exit 210 take ramp on the right to OR-11 toward Pendleton/Milton-Freewater (0.24 miles)
6. Turn left on OR-11 (Oregon-Washington Hwy) (0.36 miles)
7. Turn left on SE Isaac Ave (0.06 miles)
8. Turn right on SE 3rd St (0.31 miles)
9. Turn left on SE Emigrant Ave (0.1 miles)
10. Turn right on SE 1st St (0.08 miles)
11. Turn right on US-30 (SE Dorion Ave) (0.01 miles)
12. Finish at 116 Southeast Dorion Avenue, 97801, on the right

## **APPENDIX 4C**

### **Staging Area 2-Pagers**



## STAGING AREAS - LIST

**SA-J-216.5R****SA-J-241.7R****SA-J-242.5L****SA-J-262.7R****SA-J-269.5L****SA-J-277.7R****SA-J-282.6L****SA-J-289.9R****SA-J-290.8L****SA-JDR-0.2L****SA-RC-1.3L**

**USACE Railroad Island boat launch****SA-J-216.5R****Staging Area**

**Position - Location:** 45° 43.466', -120° 41.882' 45° 43' 28.0", -120° 41' 52.9" 45.72444, -120.69804 Goldendale

**Comments:** Lighted staging area with 2 concrete boat rams ~ 8 degree grade

**GRP Response Strategies Served:****Location Information**

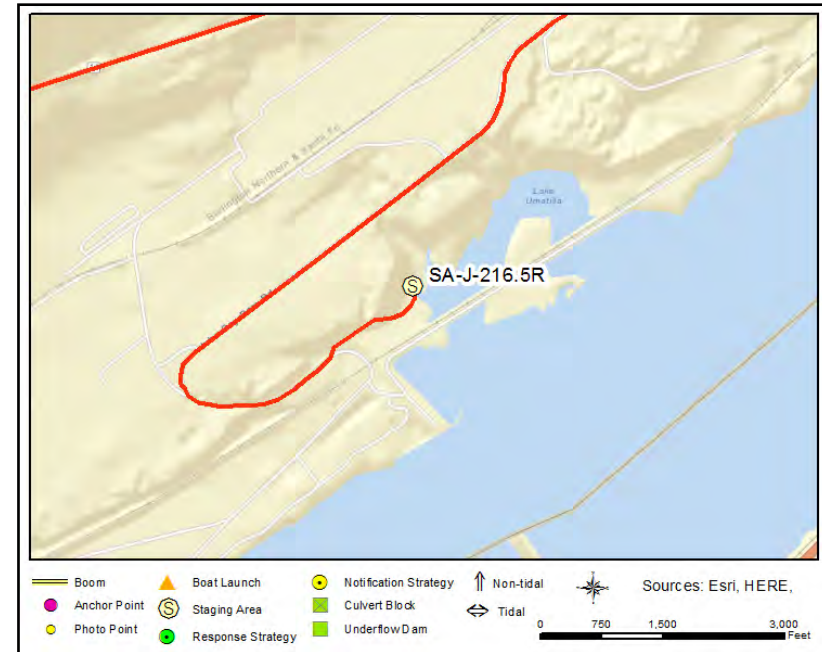
<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Dock(s)	Yes	1 Floating dock
Boat Ramp(s)	Concrete, Solid	2 concrete ramps 7.8 & 8.7 degree grades
Cell Phone Coverage	Yes	
Estimated Lot Size		20,000 sq ft of gravel parking
Parking - Car	Gravel	Room for 20 cars, 10 trailers
Parking - Trailer	Gravel	Room for 20 cars, 10 trailers
Power	No	
Restroom	Restroom - Vault	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

## USACE Railroad Island boat launch

SA-J-216.5R



SA-J-216.5R Photo: USACE Railroad Island boat launch



## Site Contact

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

John Day Dam Road  
Goldendale, WA 98620

## Driving Directions

1. Directions to SA-J-216.5R/Railroad Island, starting at the intersection of WA Hwy-97 & WA Hwy-14, head east on WA-14 E toward Stonehenge Dr (6.9 mi)
2. Turn right onto John Day Dam Rd (2.0 mi)
3. Turn left toward Railroad Island boat launch (0.3 mi)

**Roosevelt Park (USACE) boat launch****SA-J-241.7R****Staging Area**

**Position - Location:** 45° 43.863', -120° 13.482' 45° 43' 51.8", -120° 13' 28.9" 45.73105, -120.22470 Roosevelt

**Comments:** Lighted staging area with double boat ramp

**Location Information**

<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Ramp(s)	Concrete, Solid	Double ramp 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		34,000 sq ft plus 18,500 in rec area
Parking - Car	Not Marked	35 w/ more parking in rec area
Parking - Trailer	Not Marked	35 w/ more parking in rec area
Restroom	Restroom - Vault	Two w/ restroom in rec area also
Waste Disposal	Trash Receptacle	with additional cans in recreation area
Water (potable)	Yes	In rec area

**GRP Response Strategies Served:**

J-244.4R, J-244.5R, J-242.7L, J-242.3R, J-245.1R

## Roosevelt Park (USACE) boat launch

SA-J-241.7R



SA-J-241.7R Photo: Roosevelt Park double boat ramp 7 degree grade

### Site Contact

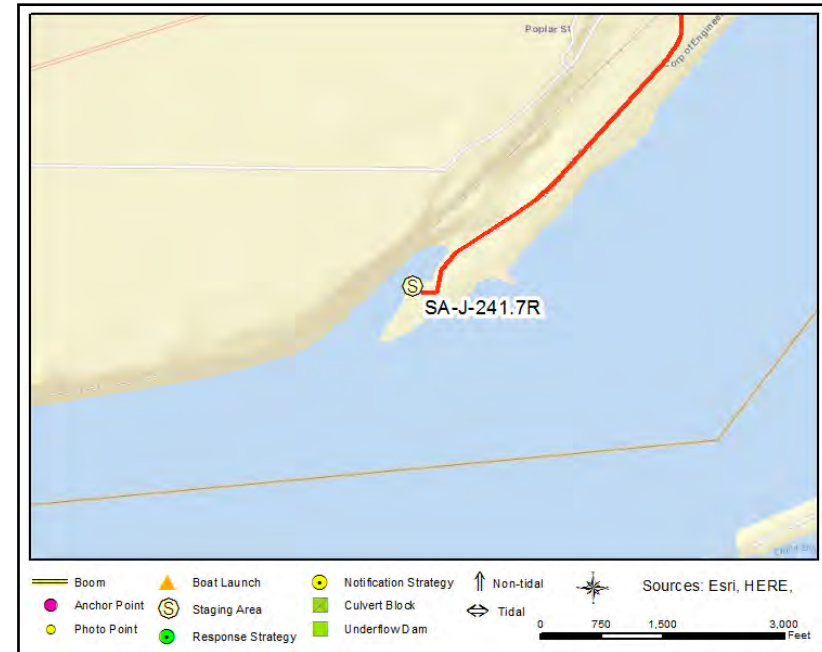
#### USACE John Day pool

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

### Nearest Address

Roosevelt Ferry Rd.  
Roosevelt, WA 99356



### Driving Directions

1. From I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (47.1 mi)
2. Turn left onto Roosevelt Ferry Rd (1.3 mi)
3. Turn right, destination will be on the right just passed the in-lieu site (148 ft)



## Arlington Point Marina &amp; Campground

SA-J-242.5L

## Staging Area

**Position - Location:** 45° 43.368', -120° 12.380' 45° 43' 22.1", -120° 12' 22.8" 45.72279, -120.20633 Port of Arlington

**Comments:** Paved staging area, marina, campground & boat launch



## GRP Response Strategies Served:

J-237.6L, J-240.7L

## Location Information

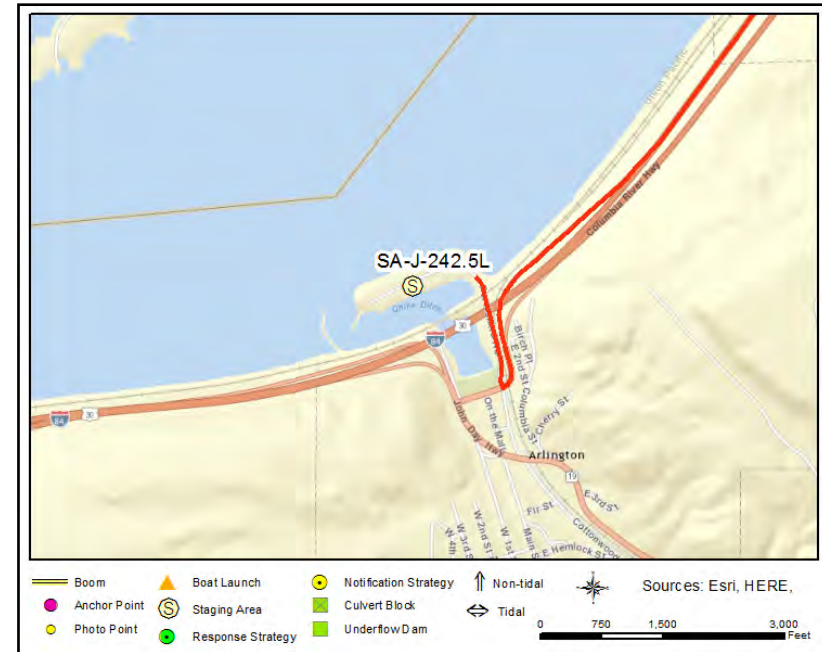
Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Dock space for 24 boats
Boat Ramp(s)	Concrete, Solid	2 Concrete ramps 9' grade + gravel ramp
Cell Phone Coverage	Yes	1 G with 2 bars in 2014
Estimated Lot Size		>130,000 sq ft lot, some paved & lined
Parking - Car	Gravel	Large gravel lot, space for 100 cars
Parking - Trailer	Marked	Paved area striped for 15 trailers
Power	Yes	In bathroom & campground
Telephone	Yes	Port of Arlington office has a phone
Waste Disposal	Trash Receptacle	2 Additional in campground
Water (potable)	Yes	In bathroom & campground

## Arlington Point Marina &amp; Campground

SA-J-242.5L



SA-J-242.5L Photo: Arlington Point Marina Boat Launch



## Site Contact

## Port of Arlington

Land/Property Contact : Arlington Point Marina (boat launch) & Campground

Port of Arlington, OR 97812  
541-454-2868

## Nearest Address

Arlington Port Rd  
Port of Arlington, OR 97812

## Driving Directions

Directions to SA-J-242.5L Arlington Point Marina & Campground

1. Head south from Pasco on US-395 S
2. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto 82 E/ US-395 S
- Continue to follow I-82 E Entering Oregon (30.6 mi)
3. Take the I-84 W exit toward Portland (0.5 mi)
4. Merge onto I-84 (40.5 mi)
5. Take exit 137 toward OR-19/ Arlington Condon (0.6 mi)
6. Continue onto Beech St (417 ft)
7. Turn right onto Arlington Port Rd - go to end of road on the left (0.4 mi)

## Crow Butte Park boat launch

SA-J-262.7R

## Staging Area

**Position - Location:** 45° 51.376', -119° 51.177' 45° 51' 22.5", -119° 51' 10.6" 45.85626, -119.85295 Prosser

**Comments:** Lighted staging area with Marina, Campground & double boat launch, ramps have a 6.5 degree grade. This is a gated facility.



## GRP Response Strategies Served:

J-262.5M, J-262.3M, J-255.7R, J-256.8M, J-265.0M, J-257.3L, J-266.0R, J-255.2M, J-264.6R, J-266.6R, J-256.5M, J-266.4R, J-250.3R

## Location Information

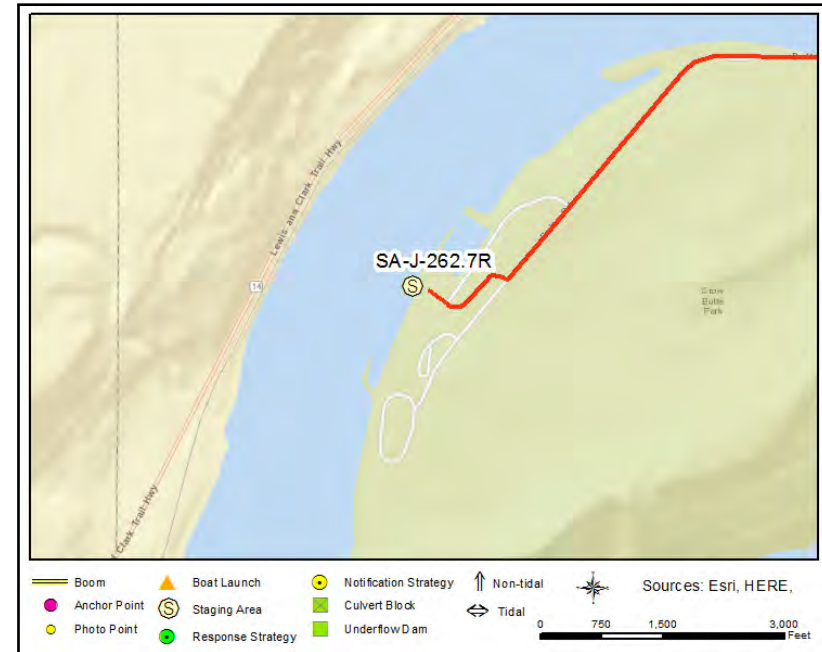
Asset	Type/Status	Amount/Number
		3 Asphalt lot with marina and campground
Boat Dock(s)	Yes	16 berth marina
Boat Ramp(s)	Concrete, Solid	Double ramps 6.5 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		84,500 sq ft of paved parking
Parking - Car	Marked	Spaces for 32 cars
Parking - Trailer	Marked	Spaces for 35 trailers
Power	Yes	Power at marina and campground
Waste Disposal	Dump Station	Dumpsters, dump station, trashcans
Water (potable)	Yes	Water @ fishcleaning station & marina

## Crow Butte Park boat launch

SA-J-262.7R



SA-J-262.7R Photo: Crow Butte State Park boat launch



## Site Contact

**Washington State Parks and Recreation Commission**

Primary Contact : Crow Butte State Park

Paterson, WA 993454

509-875-2644

## Nearest Address

1 Butte Road  
Prosser, WA 99350

## Driving Directions

**DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK**

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd 151 ft
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)



## Boardman Marina &amp; RV Park

SA-J-269.5L

## Staging Area

**Position - Location:** 45° 50.550', -119° 42.766' 45° 50' 33.0", -119° 42' 45.9" 45.84250, -119.71276 Boardman

**Comments:** Paved, lighted, staging area, launch, marina & RV park



## GRP Response Strategies Served:

J-274.85M, J-270.2L, J-271.4L, J-275.0L, J-273.2R, J-274.95M, J-269.3L, J-274.91M, J-275.0R, J-272.2R, J-269.9R

## Location Information

Asset	Type/Status	Amount/Number
		2 Two asphalt parking lots
Boat Ramp(s)	Concrete, Solid	Two concrete ramps 7.2 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		80,000 sq ft of paved parking
Parking - Car	Marked	Spaces for 30 cars
Parking - Trailer	Marked	Spaces for 50 trailers
Power	Yes	
User Fee	No	
Water (potable)	Yes	Water in restrooms, marina & RV park



## Boardman Marina &amp; RV Park

SA-J-269.5L



SA-J-269.5L Photo: Boardman Marina Boat Launch



## Site Contact

**Boardman Parks and Recreation**

Land/Property Contact :

Boardman, OR 97818  
541-481-721

## Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818

## Driving Directions

1. Directions to SA-J-269.5L/Boardman Marina, starting from Pasco take US-395 S, follow signs for I-82E/ US-395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US-395 S (18.9 mi)
3. Continue to follow I-82 E Entering Oregon (30.6 mi)
4. Take the I-84 W exit toward Portland (0.5 mi)
5. Merge onto I-84 (14.6 mi)
6. Take exit 164 toward Boardman (0.3 mi)
7. Turn right onto N Main St (0.4 mi)
8. Turn left onto Marine Dr NW
9. Finish at 1 Marine Dr. NW, 97818, on the right

## Paterson Boat Launch, Umatilla National Wildlife R

SA-J-277.7R

### Staging Area

**Position - Location:** 45° 56.015', -119° 35.561' 45° 56' .9", -119° 35' 33.7" 45.93358, -119.59269 Paterson

**Comments:** Dirt & gravel lot, no amenities



### Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Gravel	Single ramp, 6 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Gravel lot 4,000 sq ft
Parking - Car	Gravel	Space for 6 cars
Parking - Trailer	Gravel	Space for 6 trailers
Power	No	
User Fee	No	
Waste Disposal	None	None
Water (potable)	No	

### GRP Response Strategies Served:

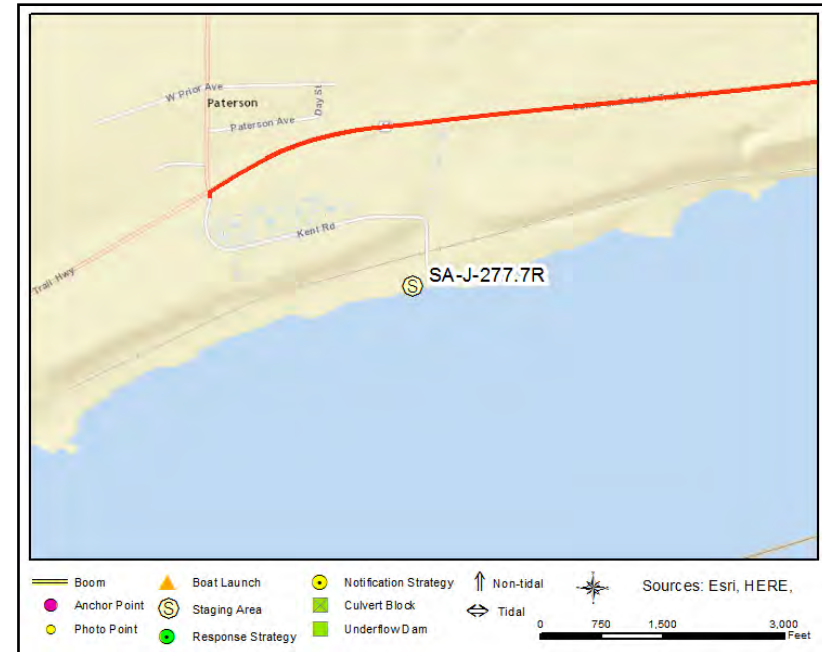
J-277.7R

## Paterson Boat Launch, Umatilla National Wildlife R

SA-J-277.7R



SA-J-277.7R Photo: Umatilla N Wildlife Refuge Boat Launch on Kent Rd, Paterson, WA



### Site Contact

**US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges**

Land/Property Contact : Property Contact

Burbank, WA 99323  
509-546-8300

### Nearest Address

48915 Kent Rd  
Paterson, WA 99345

### Driving Directions

1. From Pasco take US-395 S, follow signs for I-82E/ US395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US395 S (18.9 mi)
3. Take exit 131 W for WA-14 E toward Plymouth/ Vancouver (0.3 mi)
4. Turn right onto WA-14 W (13.4 mi)
5. Turn left onto Kent Rd/ Paterson Rd, Destination will be at the end of the road (0.5 mi)

**Irrigon Marina Park****SA-J-282.6L****Staging Area**

**Position - Location:** 45° 54.039', -119° 29.528' 45° 54' 2.4", -119° 29' 31.7" 45.90065, -119.49213 Irrigon

**Comments:** Paved launch, marina, & picnic area, 85,000 sq ft of paved parking

**GRP Response Strategies Served:**

J-283.2R, J-277.3L, J-275.9M, J-278.9M, J-284.5R, J-275.8R

**Location Information**

<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Dock(s)	Yes	Space for 75, berths & floating docks
Boat Ramp(s)	Concrete, Solid	Two concrete ramps, 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		75,000 sq ft of paved parking
Parking - Car	Marked	Paved and striped for 50 cars
Parking - Trailer	Marked	Paved and lined for 55 trailers
Power	Yes	Power at restroom
Restroom	Restroom - Flush	2 Restrooms and portable john
User Fee	No	
Water (potable)	Yes	Water at restroom
Water (potable)	Yes	Water at marina

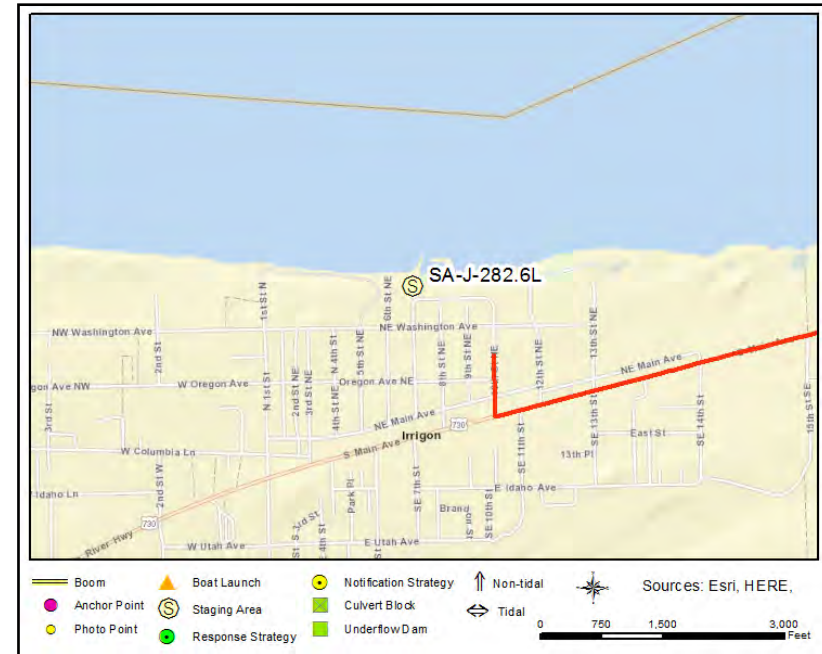


## Irrigon Marina Park

SA-J-282.6L



SA-J-282.6L Photo: Irrigon Marina



## Site Contact

**City of Irrigon-Marina Manager**  
Land/Property Contact :

Irrigon, OR 97844  
541-922-4933

## Nearest Address

NE 10th St. Irrigon,  
Irrigon, OR 97844

## Driving Directions

1. From Pasco, WA take US-395 S toward Kennewick Pendleton, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US395 S
- Entering Oregon
2. Merge onto I-82E/US-395 S (21 mi)
3. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
4. Turn right onto US-730 W/6th St (signs for Weigh Station)
- Continue to follow US-730 W (8.2 mi)
5. Turn right toward 10th St NE (249 ft)
6. Continue onto 10th St NE, Destination will be on the right (0.3 mi)



**Plymouth Park boat launch****SA-J-289.9R****Staging Area**

**Position - Location:** 45° 55.785', -119° 21.164' 45° 55' 47.1", -119° 21' 9.9" 45.92974, -119.35274 Plymouth

**Comments:** Staging area with paved lot, campground and boat launch with 8 degree grade

**GRP Response Strategies Served:**

J-287.1L, J-288.8R, J-289.9R

**Location Information**

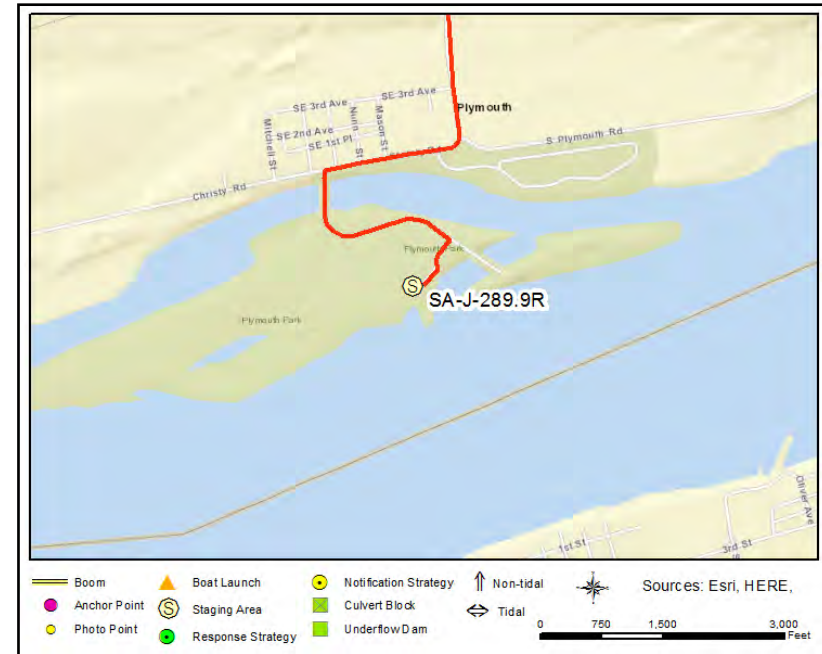
Asset	Type/Status	Amount/Number
		2 Asphalt lot by ramp and rec area
Boat Dock(s)	Yes	Two floating docks
Boat Ramp(s)	Concrete, Solid	Double concrete ramp with 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Two lots 20,000 sq ft of parking
Parking - Car	Marked	Parking for 4 & additional by rec area
Parking - Trailer	Marked	Parking for 14 trailers by ramp
Power	Yes	Lighted lot with power in campground
User Fee	Yes	3 \$3.00 user fee
Water (potable)	Yes	In rec area bathrooms

## Plymouth Park boat launch

SA-J-289.9R



SA-J-289.9R Photo: Plymouth Park boat launch



### Site Contact

#### USACE John Day pool

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

### Nearest Address

Christy Rd  
Plymouth, WA 99346

### Driving Directions

Directions to SA-J-289.9R Plymouth Park

1. From I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (0.7 mi)
  2. Take the 1st left onto Plymouth Rd (0.7 mi)
  3. Plymouth Rd turns slightly right and becomes Christie Rd (0.3 mi)
  4. Take the second left (0.4 mi)
  5. Take the first right toward the boat launch (377 ft)
- Lat 45.929676, Long -119.352524

## Umatilla Marina &amp; RV Park

SA-J-290.8L

## Staging Area

**Position - Location:** 45° 55.533', -119° 19.919' 45° 55' 32.0", -119° 19' 55.1" 45.92555, -119.33198 Umatilla

**Comments:** Paved, 106,860 sq ft area with three ramps. Port of Umatilla manages (541) 922-3939, RV park and marina.



## GRP Response Strategies Served:

J-290.9L, J-290.8L, J-291.0R, J-289.6L

## Location Information

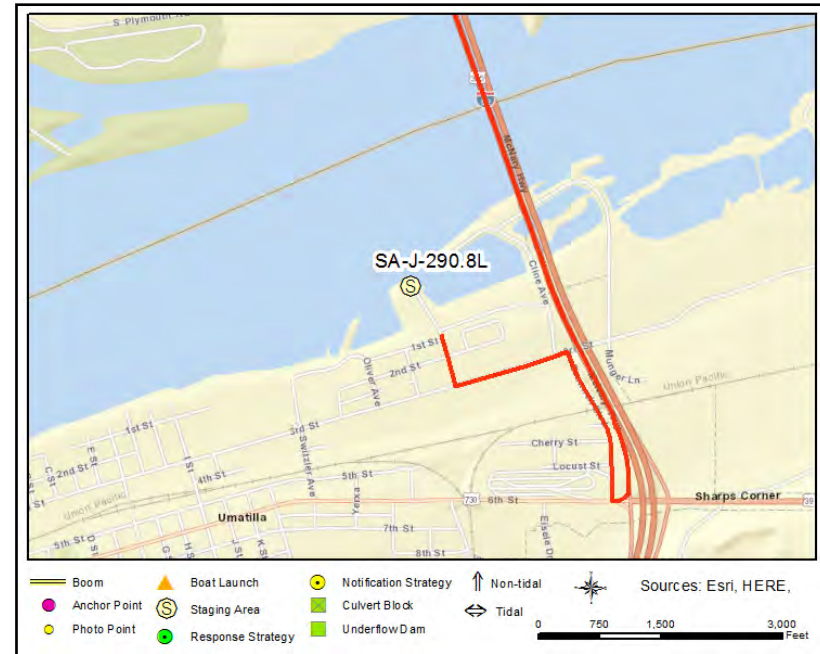
Asset	Type/Status	Amount/Number
		Asphalt
Boat Ramp(s)	Concrete, Solid	Three ramps 8.9 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Paved & lined 106,860 sq ft plus more
Parking - Car	Not Marked	Two lots w/o striping for ~100 cars
Parking - Trailer	Marked	Striped for 75 trailers, extra lots
Power	Yes	Power at marina and campground
Restroom	Restroom - Portable	3 Portable w/Flush @ marina & campground
User Fee	Yes	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Water at marina and campground

## Umatilla Marina &amp; RV Park

SA-J-290.8L



SA-J-290.8L Photo: Umatilla Marina



## Site Contact

## Port of Umatilla

Land/Property Contact :

Umatilla, OR 97882  
541-922-3939

## Nearest Address

1710 Quincy Avenue  
Umatilla, OR 97882

## Driving Directions

1. Directions to BL-J-290.8L/Port of Umatilla Marina from Pasco, WA
2. Merge onto US-395 S (1.5 mi)
3. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (5.2 mi)
4. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto 82 E/ US-395 S
- Entering Oregon (21.0 mi)
5. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
6. Turn right onto US-730 W/6th St (signs for Weigh Station) (292 ft)
7. Take the 1st right onto Brownell Blvd (0.4 mi)
8. Turn left onto 3rd St/ Co1275 Rd (0.3 mi)
9. Take the 2nd right onto Quincy Ave, destination will be on the right



**LePage Park****SA-JDR-0.2L****Staging Area**

**Position - Location:** 45° 43.761', -120° 39.047' 45° 43' 45.6", -120° 39' 2.8" 45.72935, -120.65078 Arlington

**Comments:** Paved, lighted, 139,350 sq ft

**GRP Response Strategies Served:**

J-219.1L, JDR-0.5L

**Location Information**

Asset	Type/Status	Amount/Number
		Asphalt
Boat Dock(s)	Yes	4 floating docks
Cell Phone Coverage	Yes	
Estimated Lot Size		86,625 sq ft of parking
Parking - Car	Marked	50 spaces
Parking - Trailer	Marked	95 spaces
Power	Yes	Power in bathroom
Restroom	Restroom - Flush	3 Brick bldg w/ flush toilets + portables
User Fee	Yes	\$3.00 per launch
Waste Disposal	Trash Receptacle	Dumpster and cans
Water (potable)	Yes	Water in bathroom



## LePage Park

SA-JDR-0.2L



SA-JDR-0.2L Photo: LePage Park Boat Launch



## Site Contact

**LePage Park**

Land/Property Contact :

OR

541-506-7819

## Nearest Address

410 Beech St  
Arlington, OR 97812

## Driving Directions

1. Directions to SA-JDR-0.2L/Le Page Park, starting in Pasco, WA. Take US-395 S (signs for Kennewick Pendleton)
2. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US-395 S
3. Continue to follow I-82 E. Entering Oregon. (30.6 mi)
4. Take the I-84 W exit toward Portland (0.5 mi)
5. Merge onto I-84 (64.6 mi)
6. Take exit 114 for LePage Park toward John Day River (0.2 mi)
7. Turn left onto Le Page Park Road, pass through the gate house (0.1 mi)
7. Take the first left toward the boat launch. Destination will be at the end (0.1 mi)

## Rock Creek Park boat launch

SA-RC-1.3L

## Staging Area

**Position - Location:** 45° 43.172', -120° 27.680' 45° 43' 10.3", -120° 27' 40.8" 45.71954, -120.46133 Roosevelt

**Comments:** Rock Creek feeds into the John Day Pool at river mile 230.2; staging area and boat launch with a 7 degree grade



## Location Information

Asset	Type/Status	Amount/Number
		Asphalt
Boat Ramp(s)	Concrete, Solid	Single ramp 7 degree grade
Cell Phone Coverage	Yes	Only had one bar with Verizon in 2014
Estimated Lot Size		24,000 sq ft of pavement
Parking - Car	Marked	12 spaces for cars
Parking - Trailer	Marked	24 spaces for trailers
Power	No	
Restroom	Restroom - Portable	1
Waste Disposal	Other	No waste disposal in Oct 2014
Water (potable)	No	

## GRP Response Strategies Served:

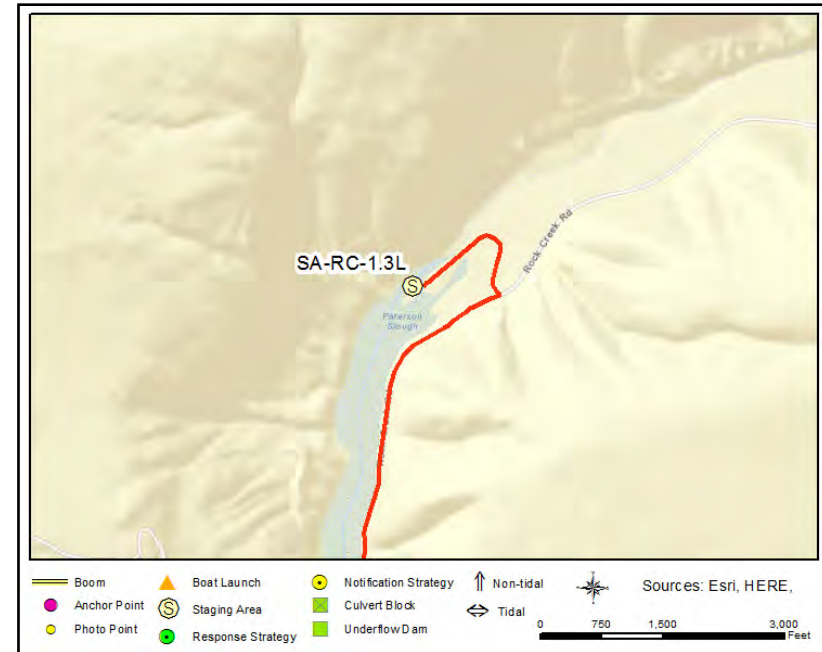
J-230.2R

## Rock Creek Park boat launch

SA-RC-1.3L



SA-RC-1.3L Photo: Rock Creek Park boat launch



## Site Contact

**USACE John Day pool**

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

Rock Creek Rd  
Roosevelt, WA 99356

## Driving Directions

Directions to SA-1.3L Rock Creek Boat Launch

1. From WA-97 head east on WA-14 toward Stonehenge Dr (19.7 mi)
2. Turn left on Rock Creek Rd (1.3 mi)
3. Take the first left into Rock Creek Park, road ends at boat launch (0.35 mi)

**APPENDIX 4D**  
**Boat Launch 2-Pagers**

## BOAT LAUNCHES - LIST

**BL-J-216.5R****BL-J-241.7R****BL-J-242.5L****BL-J-262.7R****BL-J-269.5L****BL-J-277.7R****BL-J-282.6L****BL-J-289.9R****BL-J-290.8L****BL-JDR-0.2L****BL-RC-1.3L**



**USACE Railroad Island boat launch****BL-J-216.5R****Boat Launch Location**

**Position - Location:** 45° 43.466', -120° 41.882' 45° 43' 28.0", -120° 41' 52.9" 45.72444, -120.69804 Goldendale

**Comments:** Lighted staging area with 2 concrete boat ramps ~ 8 degree grade

**GRP Response Strategies Served:**

J-216.55R, J-217.1R

**Location Information**

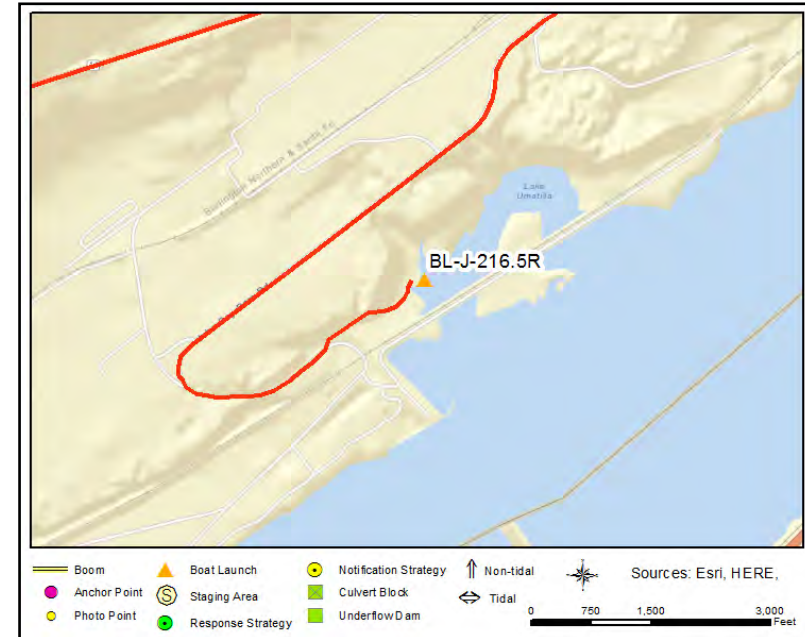
<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Dock(s)	Yes	1 Floating dock
Boat Ramp(s)	Concrete, Solid	2 concrete ramps 7.8 & 8.7 degree grades
Cell Phone Coverage	Yes	
Estimated Lot Size		20,000 sq ft of gravel parking
Parking - Car	Gravel	Room for 20 cars, 10 trailers
Parking - Trailer	Gravel	Room for 20 cars, 10 trailers
Power	No	
Restroom	Restroom - Vault	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

**USACE Railroad Island boat launch****BL-J-216.5R**

SA-J-216.5R Photo: USACE Railroad Island boat launch

**Site Contact****USACE John Day pool**

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805**Nearest Address**John Day Dam Road  
Goldendale, WA 98620**Driving Directions**

1. Directions to SA-J-216.5R/Railroad Island, starting at the intersection of WA Hwy-97 & WA Hwy-14, head east on WA-14 E toward Stonehenge Dr (6.9 mi)
2. Turn right onto John Day Dam Rd (2.0 mi)
3. Turn left toward Railroad Island boat launch (0.3 mi)

**Roosevelt Park (USACE) boat launch****BL-J-241.7R****Boat Launch Location**

**Position - Location:** 45° 43.863', -120° 13.482' 45° 43' 51.8", -120° 13' 28.9" 45.73105, -120.22470 Roosevelt

**Comments:** Lighted staging area with double boat ramp

**Location Information**

<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Ramp(s)	Concrete, Solid	Double ramp 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		34,000 sq ft plus 18,500 in rec area
Parking - Car	Not Marked	35 w/ more parking in rec area
Parking - Trailer	Not Marked	35 w/ more parking in rec area
Restroom	Restroom - Vault	Two w/ restroom in rec area also
Waste Disposal	Trash Receptacle	with additional cans in recreation area
Water (potable)	Yes	In rec area

**GRP Response Strategies Served:**

J-244.4R, J-244.5R, J-242.3R, J-245.1R

## Roosevelt Park (USACE) boat launch

**BL-J-241.7R**


SA-J-241.7R Photo: Roosevelt Park double boat ramp 7 degree grade

### Site Contact

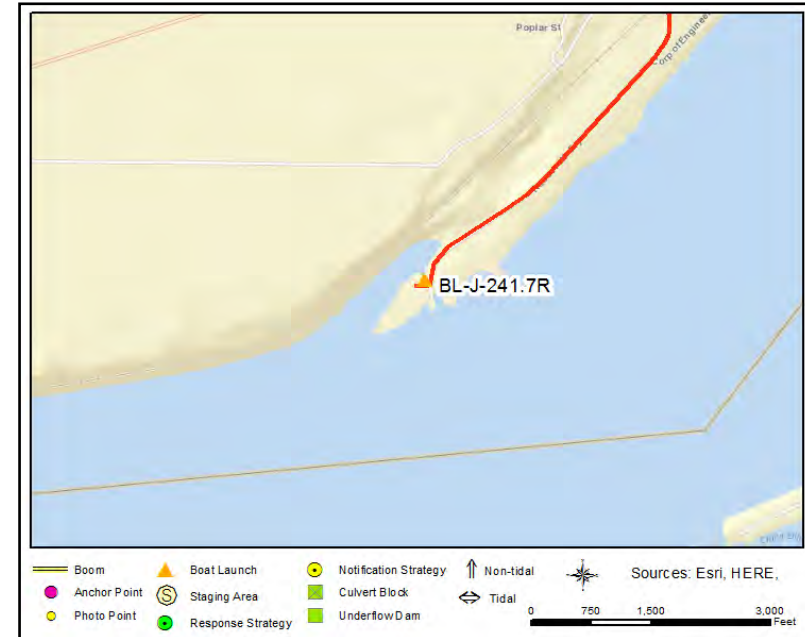
#### USACE John Day pool

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

### Nearest Address

Roosevelt Ferry Rd.  
Roosevelt, WA 99356



### Driving Directions

1. From I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (47.1 mi)
2. Turn left onto Roosevelt Ferry Rd (1.3 mi)
3. Turn right, destination will be on the right just passed the in-lieu site (148 ft)



**Arlington Point Marina & Campground****BL-J-242.5L****Boat Launch Location**

**Position - Location:** 45° 43.368', -120° 12.380'      45° 43' 22.1", -120° 12' 22.8"      45.72279, -120.20633      Port of Arlington

**Comments:** Paved staging area, marina, campground & boat launch

**GRP Response Strategies Served:**

J-242.7L, J-237.6L, J-240.7L

**Location Information**

<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Dock(s)	Yes	Dock space for 24 boats
Boat Ramp(s)	Concrete, Solid	2 Concrete ramps 9* grade + gravel ramp
Cell Phone Coverage	Yes	1 G with 2 bars in 2014
Estimated Lot Size		>130,000 sq ft lot, some paved & lined
Parking - Car	Gravel	Large gravel lot, space for 100 cars
Parking - Trailer	Marked	Paved area striped for 15 trailers
Power	Yes	In bathroom & campground
Telephone	Yes	Port of Arlington office has a phone
Waste Disposal	Trash Receptacle	2 Additional in campground
Water (potable)	Yes	In bathroom & campground



## Arlington Point Marina &amp; Campground

BL-J-242.5L



SA-J-242.5L Photo: Arlington Point Marina Boat Launch

## Site Contact

## Port of Arlington

Land/Property Contact : Arlington Point Marina (boat launch) & Campground

Port of Arlington, OR 97812  
541-454-2868

## Nearest Address

Arlington Port Rd  
Port of Arlington, OR 97812



## Driving Directions

Directions to SA-J-242.5L Arlington Point Marina & Campground

1. Head south from Pasco on US-395 S
2. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I82 E/ US395 S
- Continue to follow I-82 E Entering Oregon (30.6 mi)
3. Take the I-84 W exit toward Portland (0.5 mi)
4. Merge onto I-84 (40.5 mi)
5. Take exit 137 toward OR-19/ Arlington Condon (0.6 mi)
6. Continue onto Beech St (417 ft)
7. Turn right onto Arlington Port Rd - go to end of road on the left (0.4 mi)

## Crow Butte Park boat launch

BL-J-262.7R

## Boat Launch Location

**Position - Location:** 45° 51.376', -119° 51.177' 45° 51' 22.5", -119° 51' 10.6" 45.85626, -119.85295 Prosser

**Comments:** Lighted staging area with Marina, Campground & double boat launch, ramps with a 6.5 degree grade. This is a gated facility.



## GRP Response Strategies Served:

J-262.5M, J-262.3M, J-255.7R, J-258.6R, J-256.8M, J-265.3R, J-259.8L, J-258.65R, J-265.0M, J-257.3L, J-266.0R, J-255.2M, J-264.6R, J-266.6R, J-256.5M, J-264.8R, J-266.4R, J-250.3R

## Location Information

Asset	Type/Status	Amount/Number
		3 Asphalt lot with marina and campground
Boat Dock(s)	Yes	16 berth marina
Boat Ramp(s)	Concrete, Solid	Double ramps 6.5 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		84,500 sq ft of paved parking
Parking - Car	Marked	Spaces for 32 cars
Parking - Trailer	Marked	Spaces for 35 trailers
Power	Yes	Power at marina and campground
Waste Disposal	Dump Station	Dumpsters, dump station, trashcans
Water (potable)	Yes	Water @ fishcleaning station & marina

## Crow Butte Park boat launch

BL-J-262.7R



SA-J-262.7R Photo: Crow Butte State Park boat launch

## Site Contact

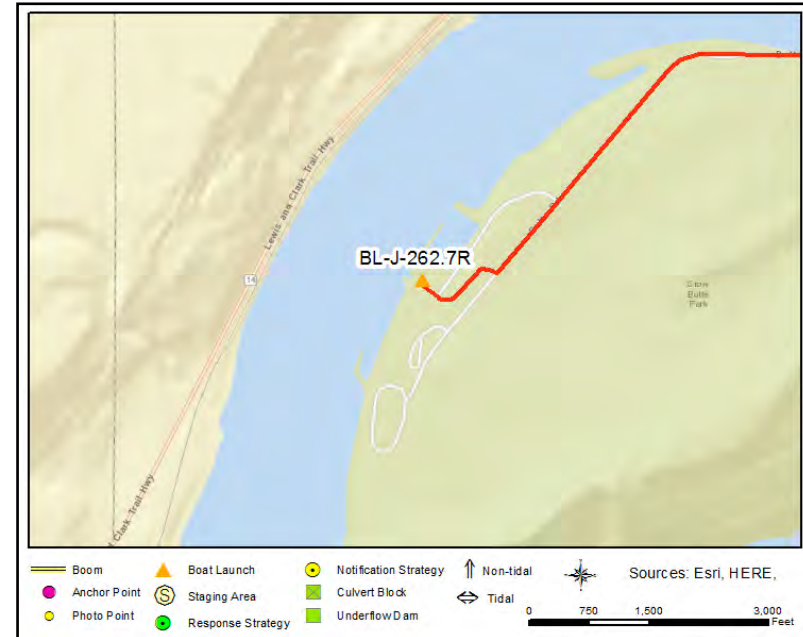
## Washington State Parks and Recreation Commission

Primary Contact : Crow Butte State Park

Paterson, WA 993454  
509-875-2644

## Nearest Address

1 Butte Road  
Prosser, WA 99350



## Driving Directions

## DIRECTIONS TO SA-J-262.7R CROW BUTTE PARK

1. Head west on WA-14 W toward Plymouth Rd (25.7 mi)
2. Turn right onto Sonova Rd 51 ft
3. Take the 1st right onto W Crow Butte Rd (1.7 mi)
4. Turn right (0.2 mi)
5. Continue straight, destination will be on the right just past the marina (341 ft)

**Boardman Marina & RV Park****BL-J-269.5L****Boat Launch Location**

**Position - Location:** 45° 50.550', -119° 42.766' 45° 50' 33.0", -119° 42' 45.9" 45.84250, -119.71276 Boardman

**Comments:** Two concrete ramps, 7.2 degree grade, paved lot, marina& RV park

**GRP Response Strategies Served:**

J-274.85M, J-270.2L, J-271.4L, J-275.0L, J-273.2R, J-275.5L, J-274.95M, J-269.3L, J-274.91M, J-275.0R, J-272.2R, J-269.9R

**Location Information**

Asset	Type/Status	Amount/Number
		2 Two asphalt parking lots
Boat Ramp(s)	Concrete, Solid	Two concrete ramps 7.2 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		80,000 sq ft of paved parking
Parking - Car	Marked	Spaces for 30 cars
Parking - Trailer	Marked	Spaces for 50 trailers
Power	Yes	
User Fee	No	
Water (potable)	Yes	Water in restrooms, marina & RV park



## Boardman Marina & RV Park

**BL-J-269.5L**


SA-J-269.5L Photo: Boardman Marina Boat Launch

### Site Contact

#### Boardman Parks and Recreation

Land/Property Contact :

Boardman, OR 97818  
541-481-721

### Nearest Address

1 Marine Dr. NW  
Boardman, OR 97818



### Driving Directions

1. Directions to SA-J-269.5L/Boardman Marina, starting from Pasco take US-395 S, follow signs for I-82E/ US395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US395 S (18.9 mi)
3. Continue to follow I-82 E Entering Oregon (30.6 mi)
4. Take the I-84 W exit toward Portland (0.5 mi)
5. Merge onto I-84 (14.6 mi)
6. Take exit 164 toward Boardman (0.3 mi)
7. Turn right onto N Main St (0.4 mi)
8. Turn left onto Marine Dr NW
9. Finish at 1 Marine Dr. NW, 97818, on the right



## Paterson Boat Launch, Umatilla National Wildlife R

BL-J-277.7R

### Boat Launch Location

**Position - Location:** 45° 56.015', -119° 35.561' 45° 56' .9", -119° 35' 33.7" 45.93358, -119.59269 Paterson

**Comments:** Primitive ramp, dirt & gravel



### Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Gravel	Single ramp, 6 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Gravel lot 4,000 sq ft
Parking - Car	Gravel	Space for 6 cars
Parking - Trailer	Gravel	Space for 6 trailers
Power	No	
User Fee	No	
Waste Disposal	None	None
Water (potable)	No	

### GRP Response Strategies Served:

J-277.7R

## Paterson Boat Launch, Umatilla National Wildlife R

**BL-J-277.7R**


SA-J-277.7R Photo: Umatilla N Wildlife Refuge Boat Launch on Kent Rd, Paterson, WA

### Site Contact

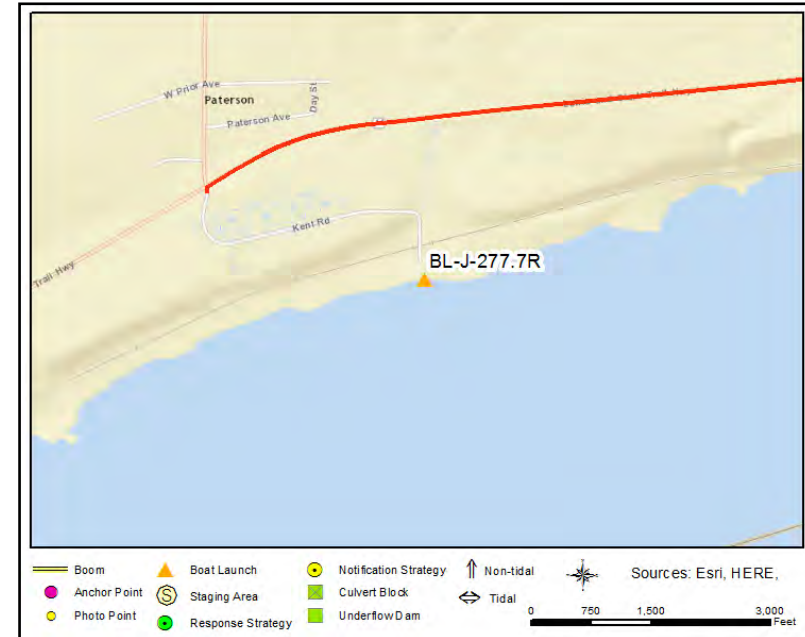
#### US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges

Land/Property Contact : Property Contact

Burbank, WA 99323  
509-546-8300

### Nearest Address

48915 Kent Rd  
Paterson, WA 99345



### Driving Directions

1. From Pasco take US-395 S, follow signs for I-82E/ US395 S/ Pendleton/ Umatilla
2. Merge onto I-82 E/ US395 S (18.9 mi)
3. Take exit 131 W for WA-14 E toward Plymouth/ Vancouver (0.3 mi)
4. Turn right onto WA-14 W (13.4 mi)
5. Turn left onto Kent Rd/ Paterson Rd, Destination will be at the end of the road (0.5 mi)

**Irrigon Marina Park****BL-J-282.6L****Boat Launch Location**

**Position - Location:** 45° 54.039', -119° 29.528' 45° 54' 2.4", -119° 29' 31.7" 45.90065, -119.49213 Irrigon

**Comments:** Two paved ramps, 85,000 sq ft of paved parking

**GRP Response Strategies Served:**

J-283.2R, J-277.3L, J-275.9M, J-278.9M, J-284.5R, J-275.8R

**Location Information**

<u>Asset</u>	<u>Type/Status</u>	<u>Amount/Number</u>
Boat Dock(s)	Yes	Space for 75, berths & floating docks
Boat Ramp(s)	Concrete, Solid	Two concrete ramps, 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		75,000 sq ft of paved parking
Parking - Car	Marked	Paved and striped for 50 cars
Parking - Trailer	Marked	Paved and lined for 55 trailers
Power	Yes	Power at restroom
Restroom	Restroom - Flush	2 Restrooms and portable john
User Fee	No	
Water (potable)	Yes	Water at restroom
Water (potable)	Yes	Water at marina

## Irrigon Marina Park

BL-J-282.6L



SA-J-282.6L Photo: Irrigon Marina

## Site Contact

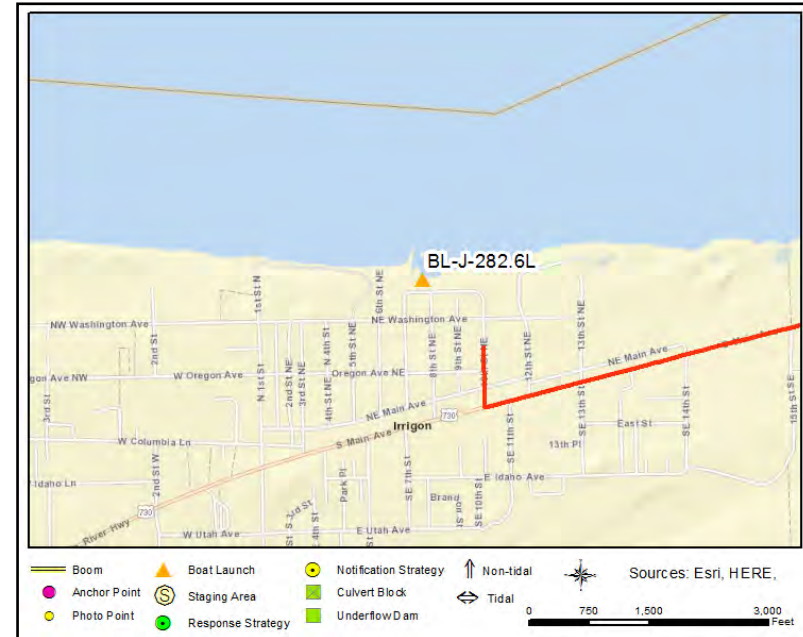
## City of Irrigon-Marina Manager

Land/Property Contact :

Irrigon, OR 97844

541-922-4933

## Nearest Address

NE 10th St. Irrigon,  
Irrigon, OR 97844

## Driving Directions

1. From Pasco, WA take US-395 S toward Kennewick Pendleton, follow signs for I-82 E/ US-395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US-395 S
2. Enter Oregon
3. Merge onto I-82E/US-395 S (21 mi)
4. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
5. Turn right onto US-730 W/6th St (signs for Weigh Station)
6. Continue to follow US-730 W (8.2 mi)
7. Turn right toward 10th St NE (249 ft)
8. Continue onto 10th St NE, Destination will be on the right (0.3 mi)



## Plymouth Park boat launch

BL-J-289.9R

## Boat Launch Location

**Position - Location:** 45° 55.785', -119° 21.164' 45° 55' 47.1", -119° 21' 9.9" 45.92974, -119.35274 Plymouth

**Comments:** Staging area with paved lot, campground and boat launch with 8 degree grade



## GRP Response Strategies Served:

J-287.1L, J-288.8R, J-289.9R

## Location Information

Asset	Type/Status	Amount/Number
		2 Asphalt lot by ramp and rec area
Boat Dock(s)	Yes	Two floating docks
Boat Ramp(s)	Concrete, Solid	Double concrete ramp with 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Two lots 20,000 sq ft of parking
Parking - Car	Marked	Parking for 4 & additional by rec area
Parking - Trailer	Marked	Parking for 14 trailers by ramp
Power	Yes	Lighted lot with power in campground
User Fee	Yes	3 \$3.00 user fee
Water (potable)	Yes	In rec area bathrooms



## Plymouth Park boat launch

**BL-J-289.9R**


SA-J-289.9R Photo: Plymouth Park boat launch

### Site Contact

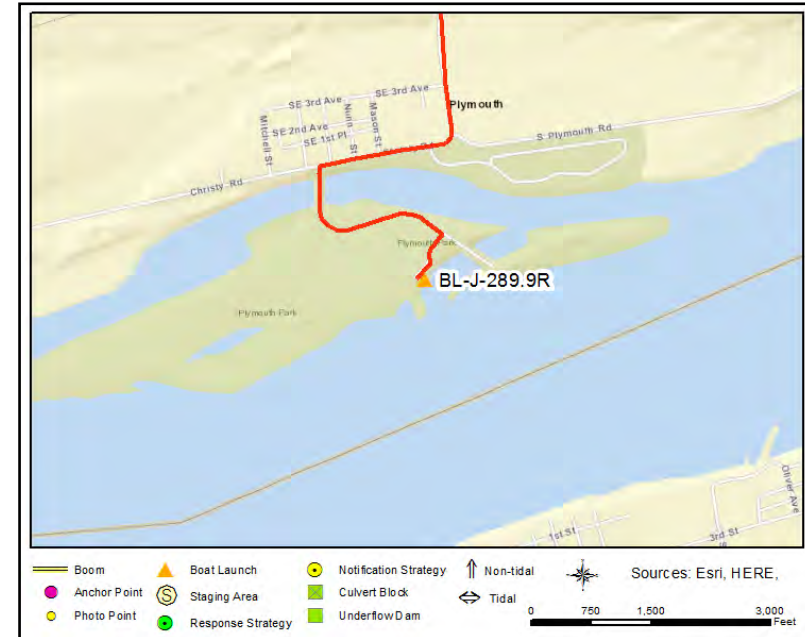
#### USACE John Day pool

Primary Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

### Nearest Address

Christy Rd  
Plymouth, WA 99346



### Driving Directions

Directions to SA-J-289.9R Plymouth Park

1. From I-82 take exit 131 and head west on WA-14 W toward Plymouth Rd (0.7 mi)
  2. Take the 1st left onto Plymouth Rd (0.7 mi)
  3. Plymouth Rd turns slightly right and becomes Christie Rd (0.3 mi)
  4. Take the second left (0.4 mi)
  5. Take the first right toward the boat launch (377 ft)
- Lat 45.929676, Long -119.352524

## Umatilla Marina &amp; RV Park

BL-J-290.8L

## Boat Launch Location

**Position - Location:** 45° 55.533', -119° 19.919' 45° 55' 32.0", -119° 19' 55.1" 45.92555, -119.33198 Umatilla

**Comments:** Paved, 106,860 sq ft area with three ramps Port of Umatilla manages (541) 922-3939



## GRP Response Strategies Served:

J-292.4R, J-288.0L, J-290.9L, J-290.8L, J-291.0R, J-289.6L

## Location Information

Asset	Type/Status	Amount/Number
		Asphalt
Boat Ramp(s)	Concrete, Solid	Three ramps 8.9 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Paved & lined 106,860 sq ft plus more
Parking - Car	Not Marked	Two lots w/o striping for ~100 cars
Parking - Trailer	Marked	Stiped for 75 trailers, extra lots
Power	Yes	Power at marina and campground
Restroom	Restroom - Portable	3 Portable w/Flush @ marina & campground
User Fee	Yes	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Water at marina and campground

## Umatilla Marina &amp; RV Park

BL-J-290.8L



SA-J-290.8L Photo: Umatilla Marina

## Site Contact

## Port of Umatilla

Land/Property Contact :

Umatilla, OR 97882  
541-922-3939

## Nearest Address

1710 Quincy Avenue  
Umatilla, OR 97882



## Driving Directions

1. Directions to BL-J-290.8L/Port of Umatilla Marina from Pasco, WA
2. Merge onto US-395 S (1.5 mi)
3. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (5.2 mi)
4. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I82 E/ US395 S
5. Entering Oregon (21.0 mi)
6. Take exit 1 for U.S. 395/ U.S.730 toward Umatilla Hermiston (0.2 mi)
7. Turn right onto US-730 W/6th St (signs for Weigh Station) (292 ft)
8. Take the 1st right onto Brownell Blvd (0.4 mi)
9. Turn left onto 3rd St/ Co1275 Rd (0.3 mi)
10. Take the 2nd right onto Quincy Ave, destination will be on the right

**LePage Park****BL-JDR-0.2L****Boat Launch Location**

**Position - Location:** 45° 43.761', -120° 39.047'      45° 43' 45.6", -120° 39' 2.8"      45.72935, -120.65078

**Comments:** Three paved ramps with floating docks, \$3 fee, open all year

**Location Information**

Asset	Type/Status	Amount/Number
		Asphalt
Boat Dock(s)	Yes	4 floating docks
Cell Phone Coverage	Yes	
Estimated Lot Size		86,625 sq ft of parking
Parking - Car	Marked	50 spaces
Parking - Trailer	Marked	95 spaces
Power	Yes	Power in bathroom
Restroom	Restroom - Flush	3 Brick bldg w/ flush toilets + portables
User Fee	Yes	\$3.00 per launch
Waste Disposal	Trash Receptacle	Dumpster and cans
Water (potable)	Yes	Water in bathroom

**GRP Response Strategies Served:**

J-219.1L, J-220.7R, JDR-0.5L



## LePage Park

BL-JDR-0.2L



SA-JDR-0.2L Photo: LePage Park Boat Launch

## Site Contact

## LePage Park

Land/Property Contact :

OR

541-506-7819

## Nearest Address

410 Beech St  
Arlington, OR 97812



## Driving Directions

1. Directions to SA-JDR-0.2L/Le Page Park, starting in Pasco, WA. Take US-395 S (signs for Kennewick Pendleton)
2. Keep left at the fork, follow signs for I-82 E/ US395 S/ Pendleton/ Umatilla and merge onto I-82 E/ US395 S
3. Continue to follow I-82 E. Entering Oregon. (30.6 mi)
3. Take the I-84 W exit toward Portland (0.5 mi)
4. Merge onto I-84 (64.6 mi)
5. Take exit 114 for LePage Park toward John Day River (0.2 mi)
6. Turn left onto Le Page Park Road, pass through the gate house (0.1 mi)
7. Take the first left toward the boat launch. Destination will be at the end (0.1 mi)



## Rock Creek Park boat launch

BL-RC-1.3L

## Boat Launch Location

**Position - Location:** 45° 43.172', -120° 27.680' 45° 43' 10.3", -120° 27' 40.8" 45.71954, -120.46133 Roosevelt

**Comments:** Rock Creek feeds into the John Day Pool at river mile 230.2; staging area and boat launch with a 7 degree grade



## Location Information

Asset	Type/Status	Amount/Number
		Asphalt
Boat Ramp(s)	Concrete, Solid	Single ramp 7 degree grade
Cell Phone Coverage	Yes	Only had one bar with Verizon in 2014
Estimated Lot Size		24,000 sq ft of pavement
Parking - Car	Marked	12 spaces for cars
Parking - Trailer	Marked	24 spaces for trailers
Power	No	
Restroom	Restroom - Portable	1
Waste Disposal	Other	No waste disposal in Oct 2014
Water (potable)	No	

## GRP Response Strategies Served:

J-224.0R, J-230.2R, J-228.5R, J-231.6R

## Rock Creek Park boat launch

BL-RC-1.3L



SA-RC-1.3L Photo: Rock Creek Park boat launch

## Site Contact

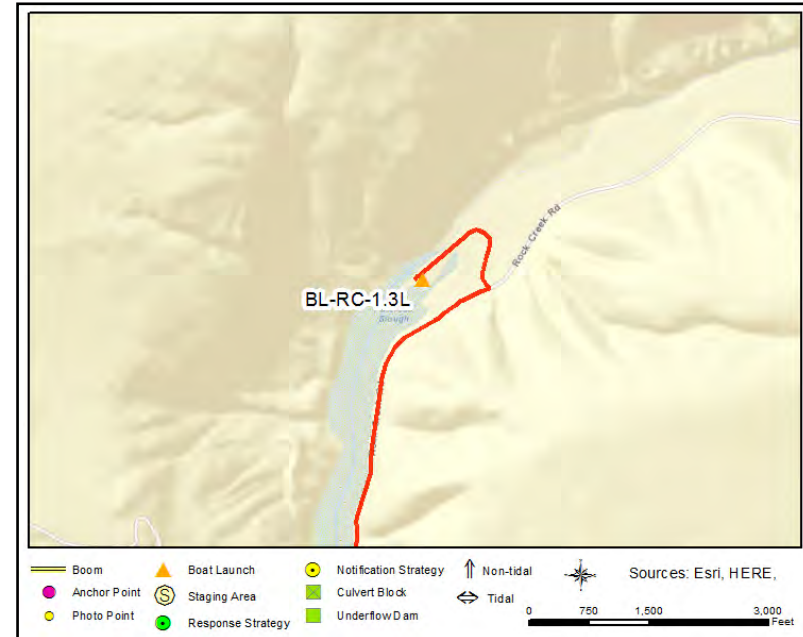
**USACE John Day pool**

Land/Property Contact : Natural Resource Manager

John Day Dam, OR  
541-506-4805

## Nearest Address

Rock Creek Rd  
Roosevelt, WA 99356



## Driving Directions

Directions to SA-1.3L Rock Creek Boat Launch

1. From WA-97 head east on WA-14 toward Stonehenge Dr (19.7 mi)
2. Turn left on Rock Creek Rd (1.3 mi)
3. Take the first left into Rock Creek Park, road ends at boat launch 0.35 mi)