

# **MIDDLE COLUMBIA RIVER**

## **MCNARY POOL**

### **Geographic Response Plan**

**(MCRM-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 (pages [113-438](#)) 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. On-site Considerations

### 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 Sheet](#)

***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) and 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)						
	<b>Priest Rapids</b> USGS 12472800	<b>The Dalles</b> USGS 14105700	<b>Walla Walla</b> USGS 14018500	<b>Yakima</b> USGS 12510500	<b>Klickitat</b> USGS 14113000	<b>White Salmon</b> USGS 14123500
<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		

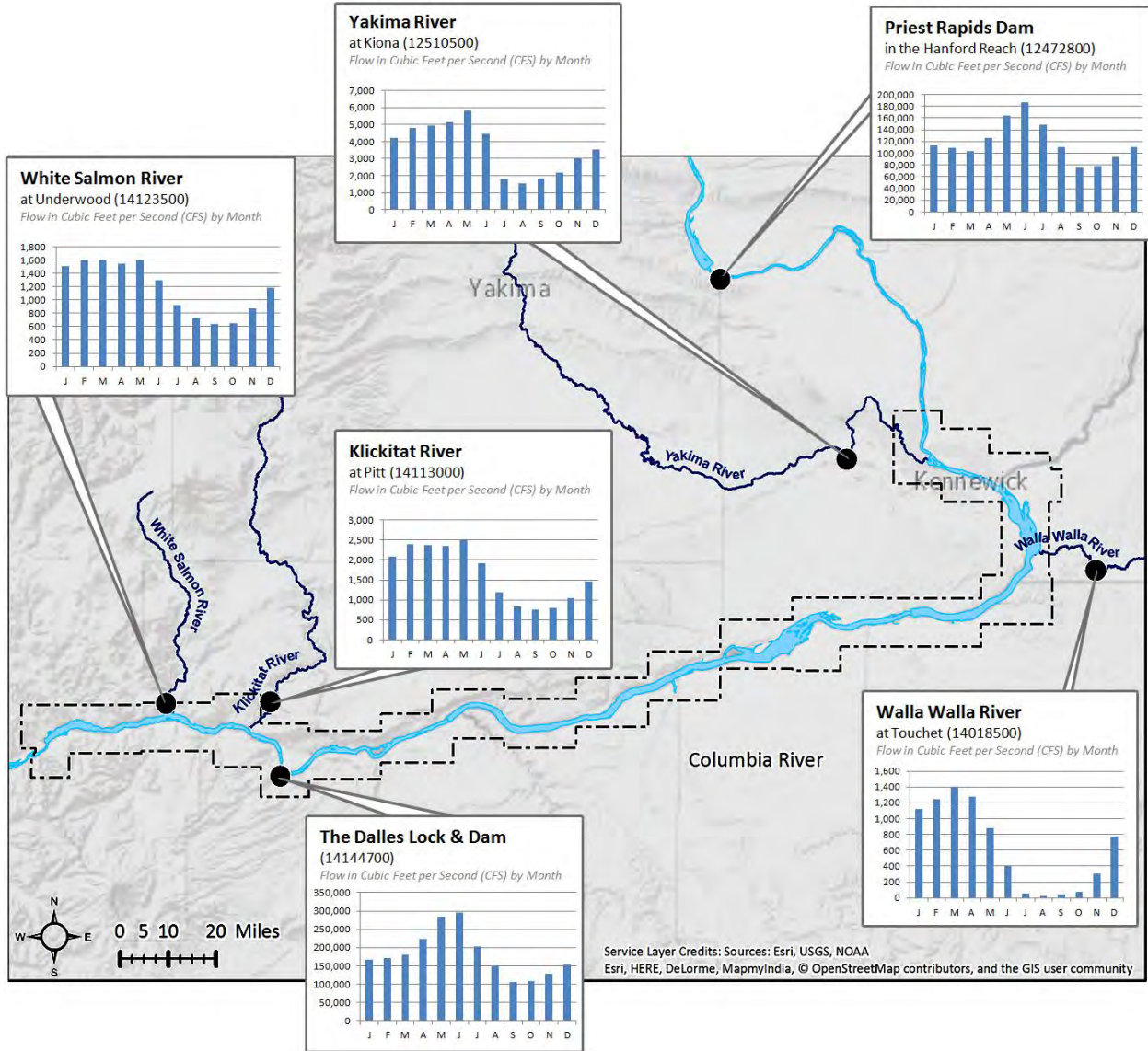


Figure 4-1: USGS Mean Monthly Discharge Measurements for Columbia River and Tributaries

## 4.2 AREA OVERVIEW MAPS

The following maps provide a geographic overview of the Middle Columbia River area by pool. 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](#)



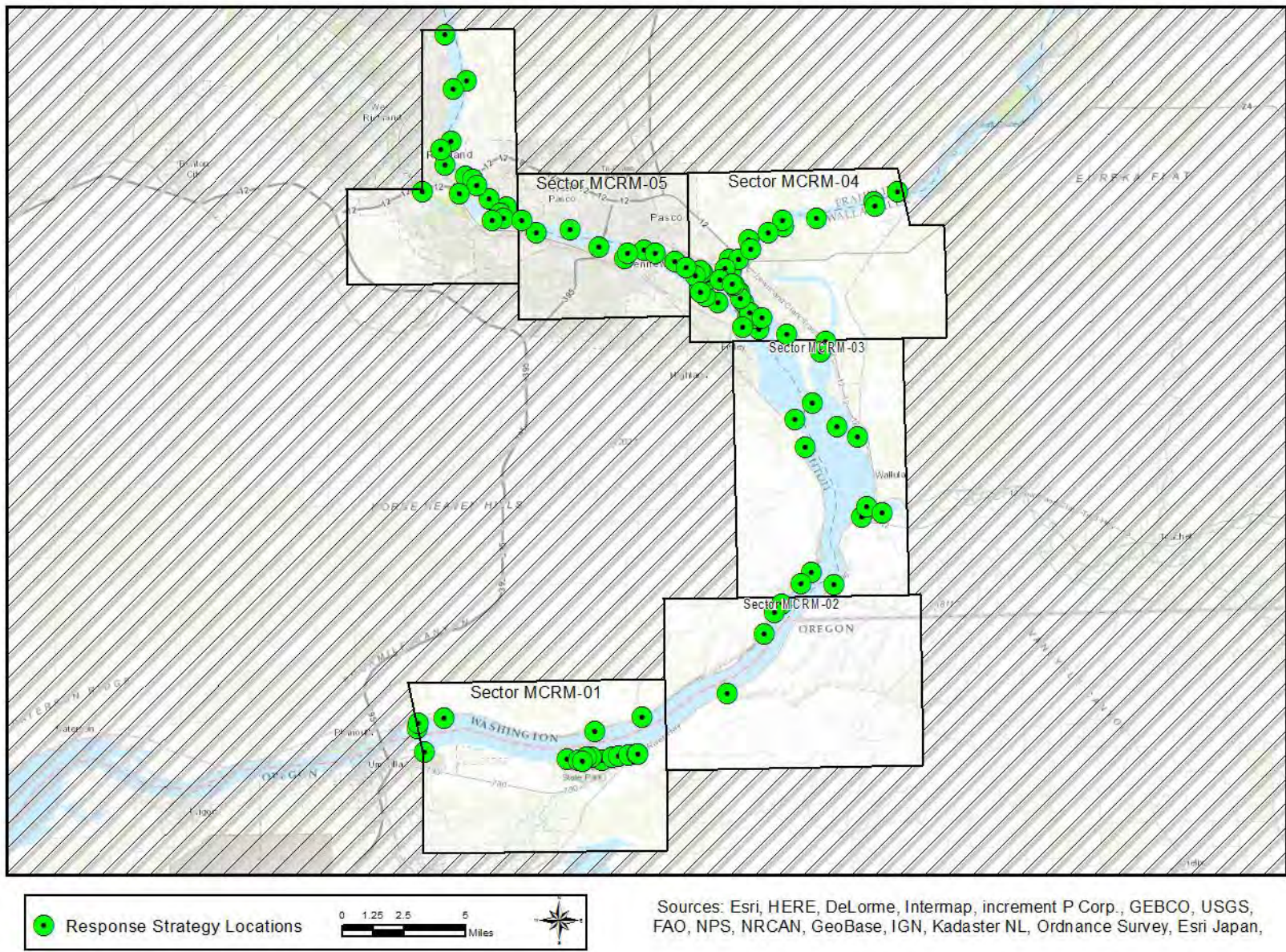
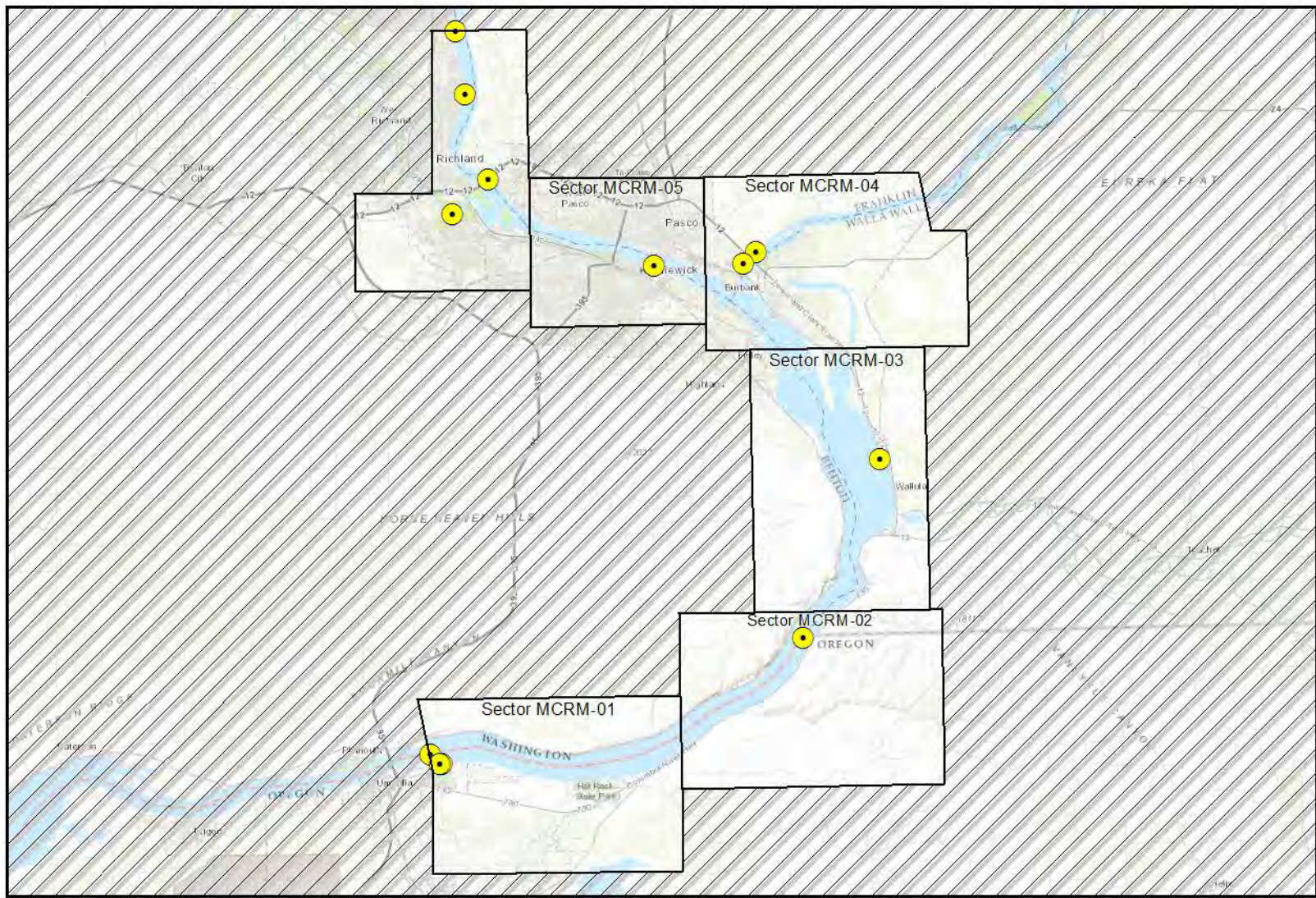
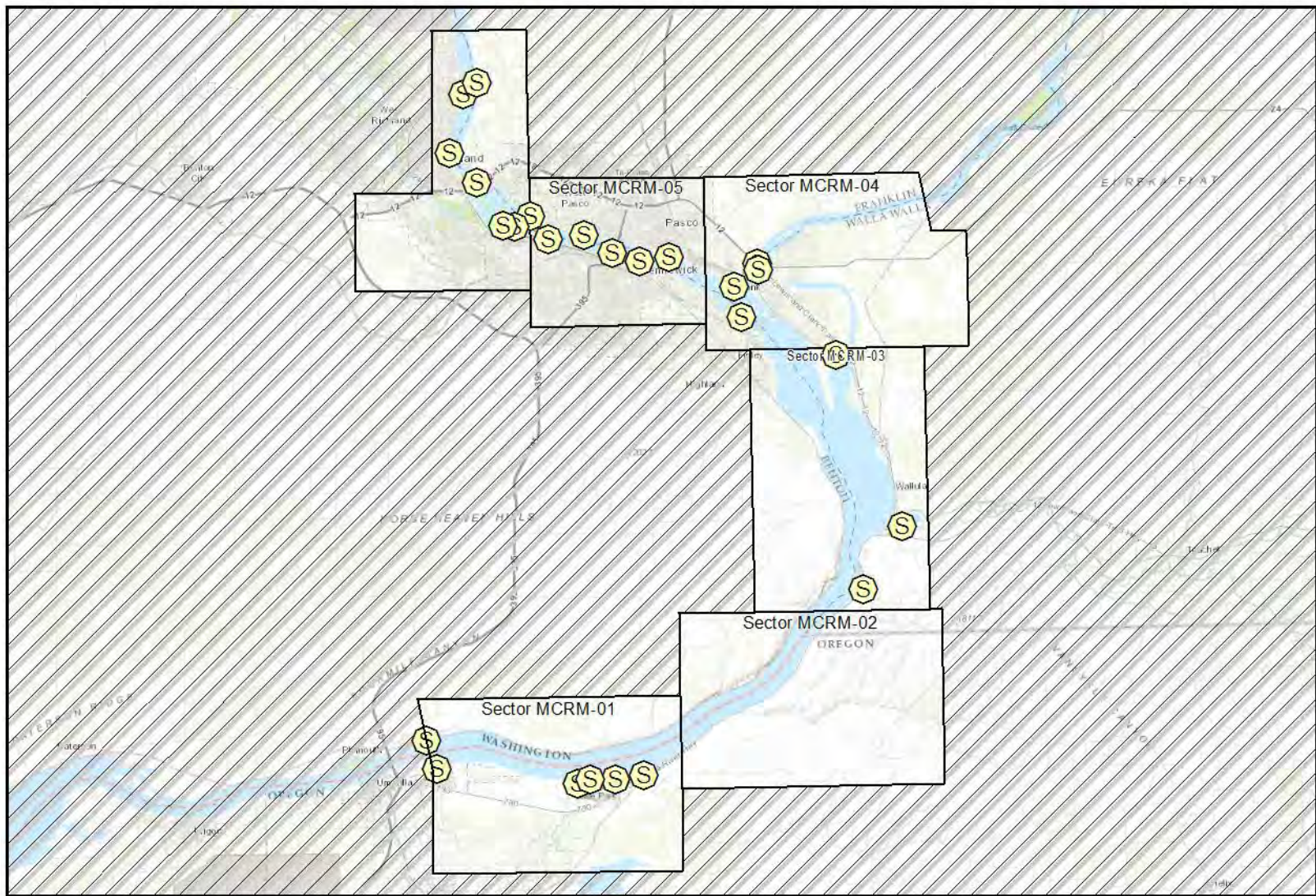


Figure 4-2: Response Strategy Locations



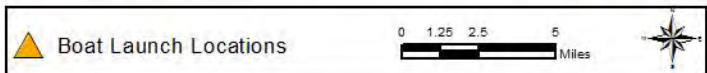
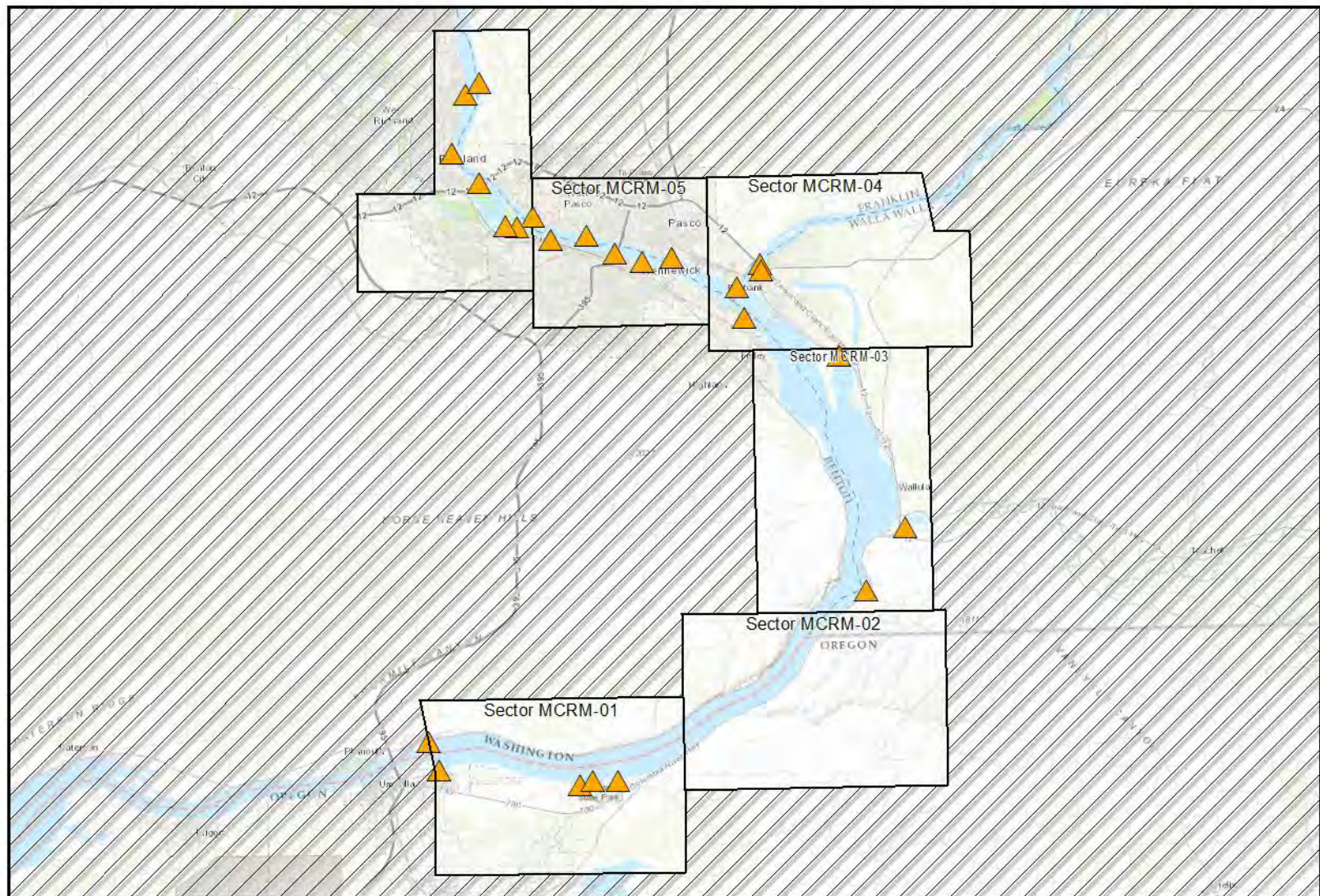
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan,

Figure 4-3: Notification Strategy Locations



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan,

Figure 4-4: Staging Area Locations



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan,

**Figure 4-5: Boat Launch Locations**

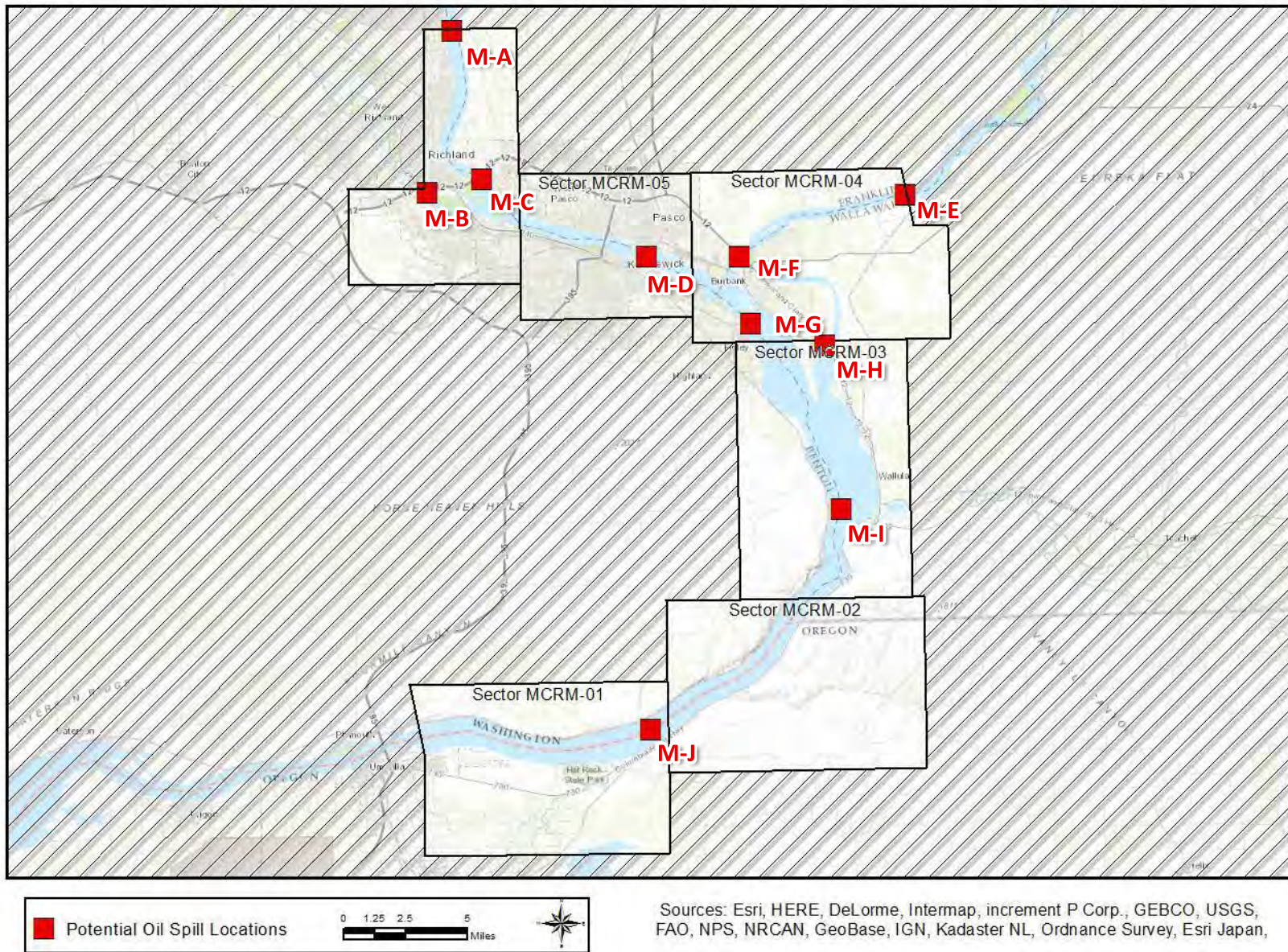


Figure 4-6: Potential Oil Spill Origin Points

## 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 McNary Pool-GRP; example include, points M-A, M-B, M-C and M-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: M-A (Hanford Reach ~M-343)**

<b>M-A (Hanford Reach ~M-343)</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	M-337.3R	61	87	255
2	M-337.8R	61	87	257
3	M-338.2L	61	87	259
4	M-340.3R	61	88	261
5	M-340.7L	61	88	263
6	M-342.8R	61	88	265



**Table 4-4: M-B (Upstream on the Yakima River ~YAK 4.3)**

<b>M-B (Upstream on the Yakima River ~YAK 4.3)</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	M-334.0R	61	83	241
2	M-334.3M	61	84	243
3	M-334.5L	61	84	245
4	M-335.0M	61	85	247
5	YAK-0.5R	61	94	299
6	YAK-2.1L	61	94	301
7	YAK-4.2L	61	95	303

**Table 4-5: M-C (US-12/I-82 Bridge ~M-336.1)**

<b>M-C (US-12/I-82 Bridge ~M-336.1)</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	M-332.8R	60	83	237
2	M-334.0R	61	83	241
3	M-334.3M	61	84	243
4	M-334.5L	61	84	245
5	M-335.0M	61	84	247
6	M-335.8R	61	86	249
7	M-336.1R	61	86	251

**Table 4-6: M-D (US-395, WA-397 and Railroad Bridge @ Kennewick/Pasco ~M-328)**

<b>M-D (US-395, WA-397 and Railroad Bridge @ Kennewick/Pasco ~M-328)</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	M-325.89L	59	80	215
2	M-326.1M	59	80	219
3	M-326.5L	60	81	221
4	M-327.1L	60	81	223
5	M-328.0L	60	81	225
6	M-328.4L	60	81	227

**Table 4-7: M-E (Ice Harbor Lock and Dam ~MSN-9.6)**

<b>M-E (Ice Harbor Lock and Dam ~MSN-9.6)</b>				
<b>Implementation Priority</b>	<b>Strategy Number</b>	<b>Sector Map (Page #)</b>	<b>Strategy Matrix (Page #)</b>	<b>Strategy Details (Page #)</b>
2	MSN-2.1L	59	90	277
3	MSN-2.8L	59	91	279
4	MSN-2.9R	59	91	281
5	MSN-4.0M	59	91	283
6	MSN-4.5L	59	92	285
7	MSN-4.6M	59	92	287
8	MSN-8.4M	59	93	289

**Table 4-8: M-F (Tidewater/Andeavor Pipelines, US-12 and Railroad Bridges ~MSN-2.3)**

<b>M-F (Tidewater/Andeavor Pipelines, US-12 and Railroad Bridges ~MSN-2.3)</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	M-324.44M	59	78	201
2	M-324.6M	59	79	203
3	MSN-0.8M	59	89	267
4	MSN-1.0R	59	89	269
5	MSN-1.55L	59	89	271
6	MSN-1.56R	59	90	273
8	MSN-2.1L	59	90	277

**Table 4-9: M-G (Railroad Bridge @ Burbank/Finley ~M-323.4)**

<b>M-G (Railroad Bridge @ Burbank/Finley ~M-323.4)</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	M-318.3R	58	72	173
2	M-319.2M	58	73	175
3	M-321.9L	59	74	181
4	M-322.6M	59	74	183
5	M-323.1M	59	75	185
7	M-323.2R	59	75	189
8	M-323.4M	59	76	191

**Table 4-10: M-H (McNary Wildlife Refuge Bridges ~M-320.7)**

<b>M-H (McNary Wildlife Refuge Bridges ~M-320.7)</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	M-317.0L	58	71	167
2	M-317.5R	58	72	169
3	M-317.8M	58	72	171
4	M-318.3R	58	72	173
5	M-319.2M	58	73	175
6	M-320.6L	58	73	177
7	M-320.7L	58	74	179

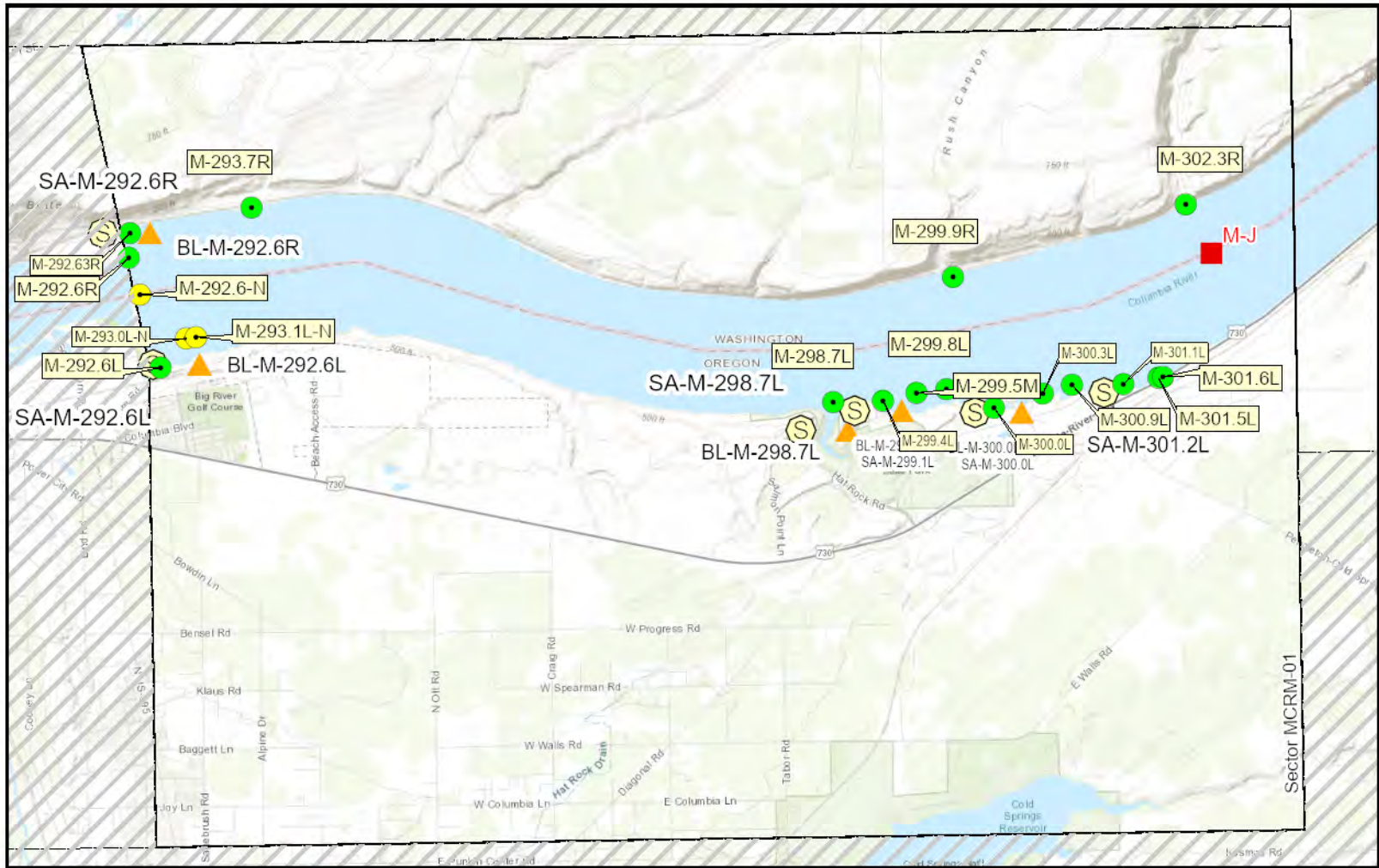
**Table 4-11: M-I (Walla Walla River Confluence ~M-314.5)**

<b>M-I (Walla Walla River Confluence ~M-314.5)</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	M-311.4R	58	68	157
2	M-311.9R	58	69	159
3	M-312.0L	58	69	161
4	M-314.5L	58	70	163
5	WWR-4.0R	58	93	297
6	M-314.7L	58	71	165

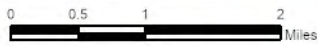


**Table 4-12: M-J (Switzer Canyon Area ~M-302.3)**

<b>M-J (Switzer Canyon Area ~M-302.3)</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	M-299.8L	56	65	131
2	M-299.9R	56	65	133
3	M-300.0L	56	65	135
4	M-300.3L	56	66	137
5	M-300.9L	56	66	139
6	M-301.1L	56	66	141
7	M-301.5L	56	66	143
8	M-301.6L	56	67	145



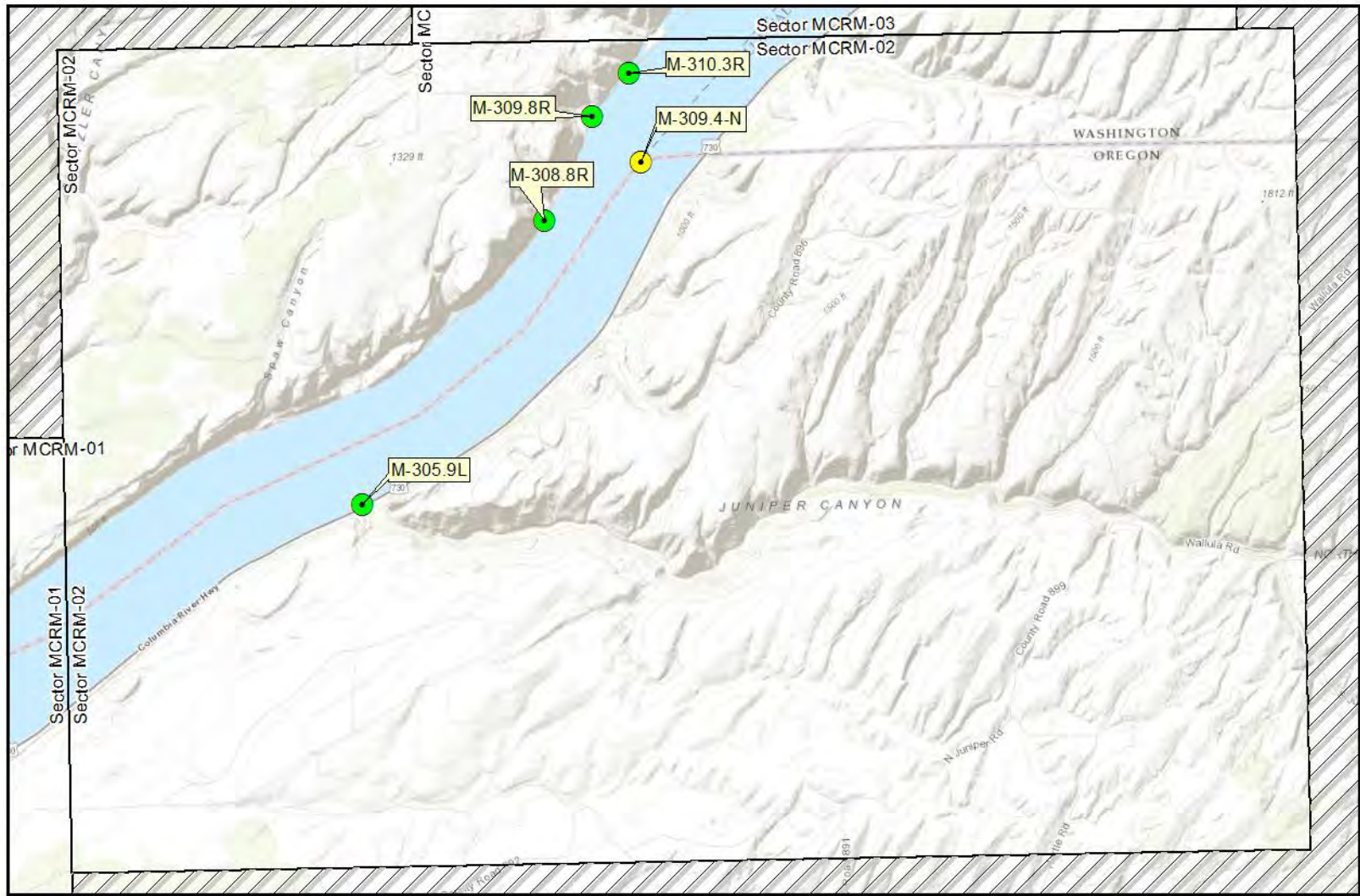
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- ▲ Boat Launch Locations
- Notification Strategy Locations
- Potential Oil Spill Points
- S Staging Area Locations



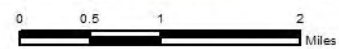
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**Sector MCRM-01**

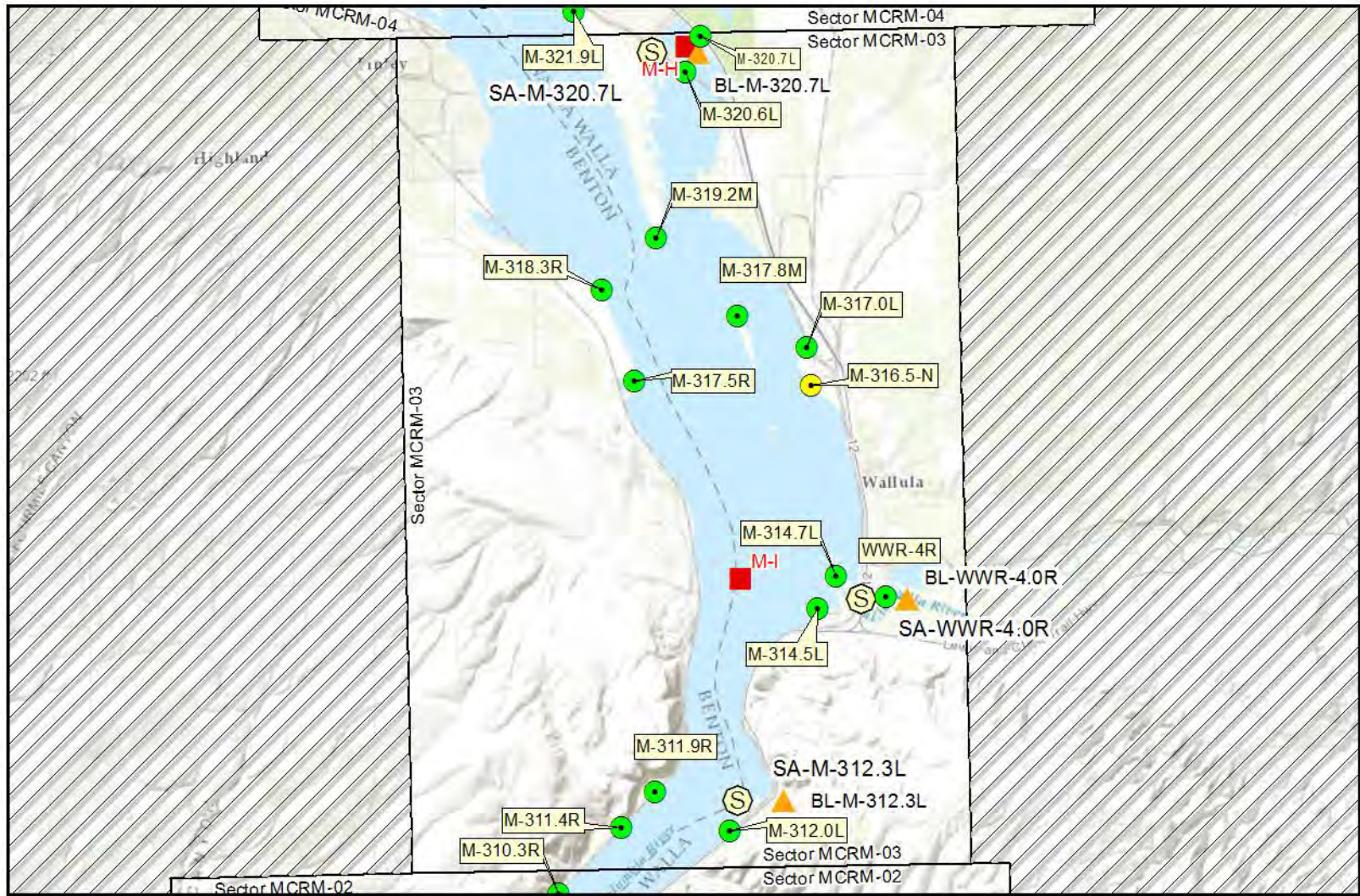
Staging Area and Boat Launch symbols are offset to prevent overlapping.



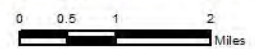
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	Notification Strategy Locations		Potential Oil Spill Points
	Staging Area Locations	<b>Sector MCRM-02</b>	



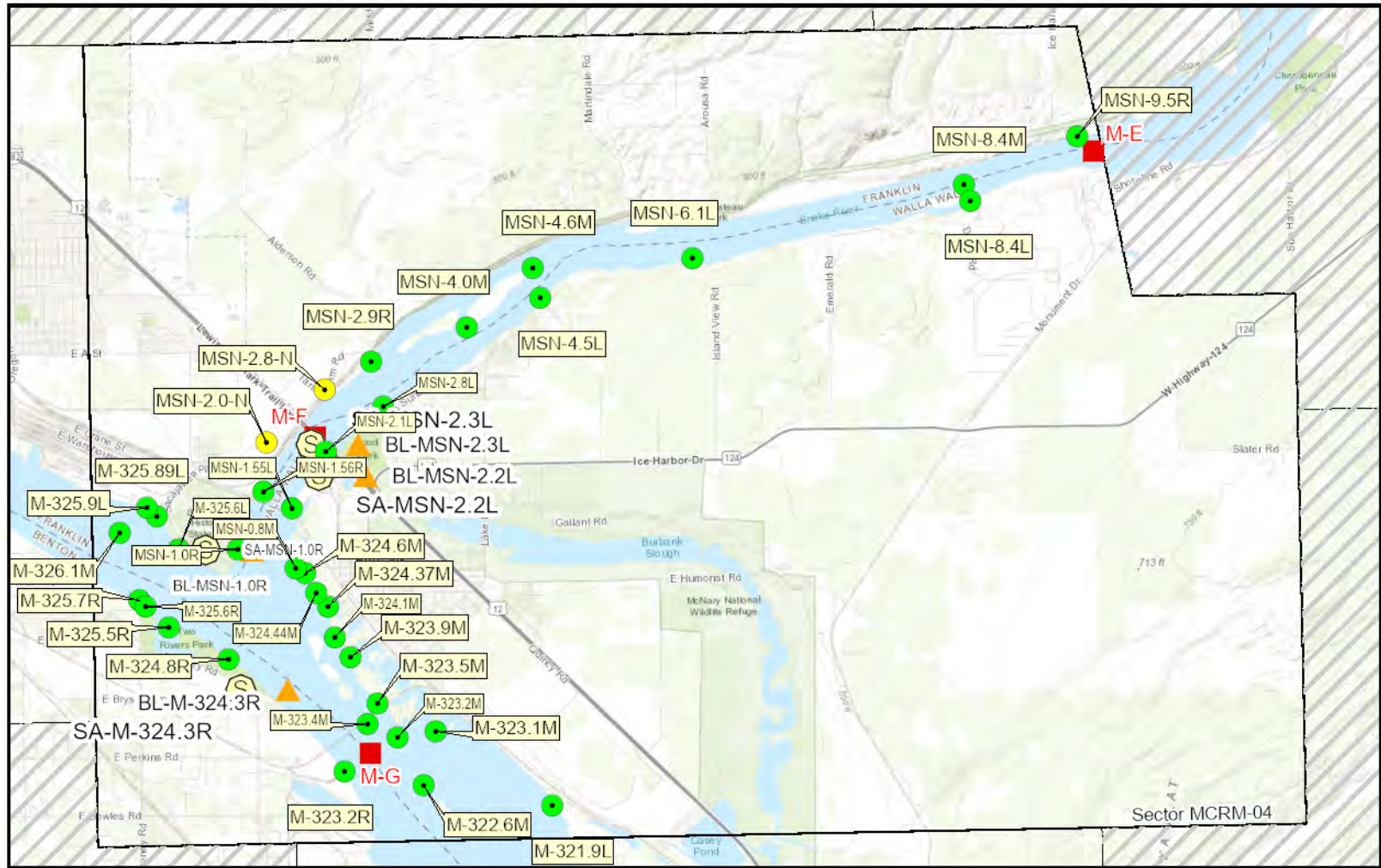
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.



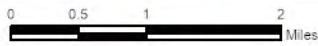
	Response Strategy Locations		Boat Launch Locations
	Notification Strategy Locations		Potential Oil Spill Points
	Staging Area Locations	<b>Sector MCRM-03</b>	



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.



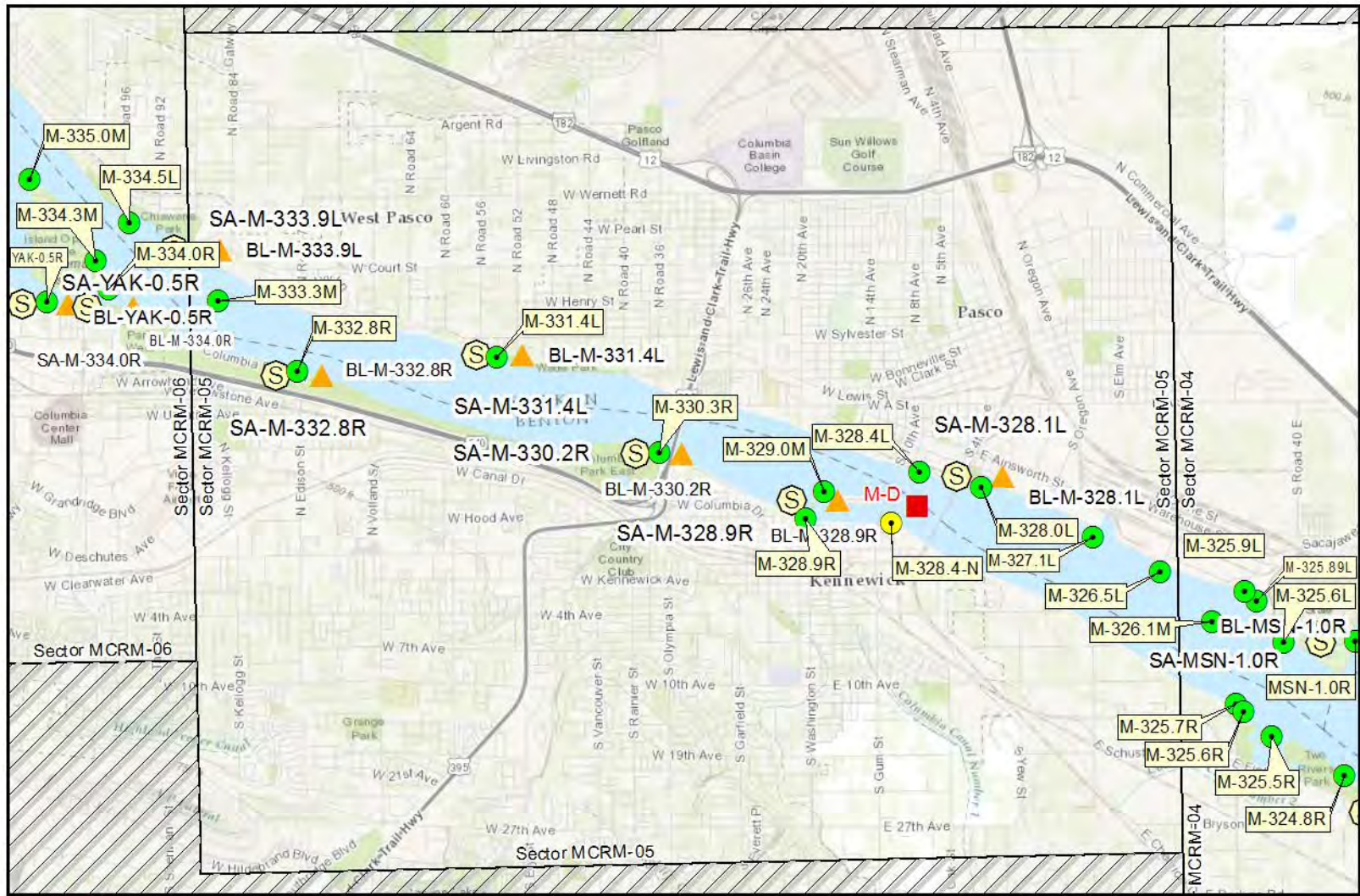
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- Notification Strategy Locations
- Potential Oil Spill Points
- S Staging Area Locations



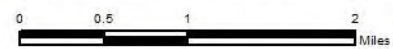
World Topographic Map: Bureau of Land Management, State of Oregon, State of Oregon DOT, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, USGS, NGA, EPA, USDA,

**Sector MCRM-04**

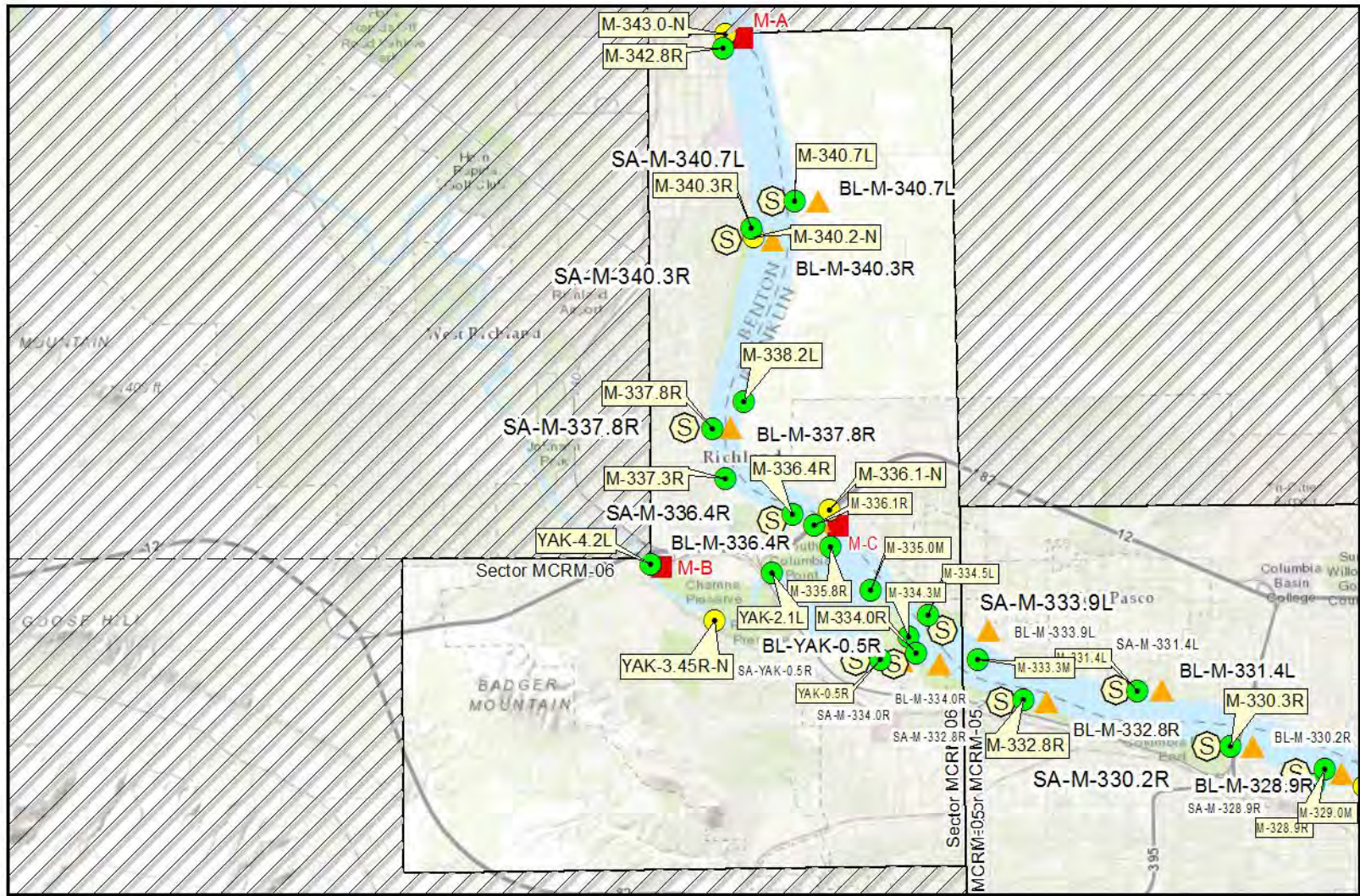
Staging Area and Boat Launch symbols are offset to prevent overlapping.



	Response Strategy Locations		Boat Launch Locations
	Notification Strategy Locations		Potential Oil Spill Points
	Staging Area Locations	<b>Sector MCRM-05</b>	



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.



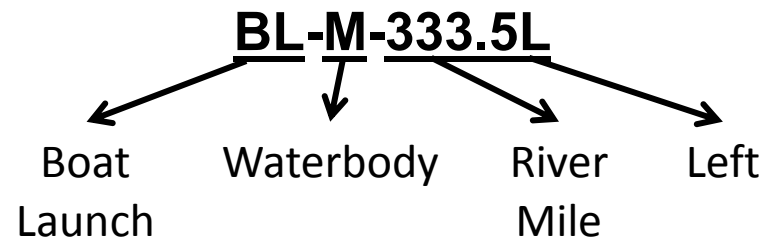
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	Notification Strategy Locations		Potential Oil Spill Points
	Staging Area Locations	<b>Sector MCRM-06</b>	

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.

## 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:

J=John Day Pool

SIH=Snake River/Ice Harbor Pool

N = Notification Strategy

L = River Left

M=McNary Pool

WWR=Walla Walla River

SA = Staging Area

R = River Right

MSN=McNary Pool/Snake River

YAK=Yakima River

BL = Boat Launch

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="#">M-292.6L</a>	McNary Southshore Boat Launch 45.92688 -119.29311	Collection	Boom 1000ft	Yes	Onsite <a href="#">BL-M-292.6L/S</a> McNary Dam Lots of parking and several launch ramps on site	Lock and Dam	Launch boat from McNary Dam Southshore boat launch, <a href="#">BL-M-292.6L</a>	56	85
<a href="#">M-292.6R</a>	McNary Lock 45.94068 -119.29849	Exclusion	Boom 300ft	Yes	Onsite Stage at <a href="#">SA-M-292.6R/</a> N. Contractors must call McNary Dam control at (541) 922-2231 to access site.	Lock and Dam	Launch boat from McNary Dam boat launch, <a href="#">BL-M-292.6R</a>	56	87
<a href="#">M-292.63R</a>	McNary Dam Boat Launch 45.94375 -119.29821	Collection	Boom 1200ft	Yes	Onsite <a href="#">SA-M-292.6R/</a> N McNary Dam boat launch and parking on site	Osprey, Raptors, Waterfowl Concentrations	Launch boat from McNary Dam boat launch, <a href="#">BL-M-292.6R</a>	56	89
<a href="#">M-293.7R</a>	AgriNorthwest Pump Station 45.94674 -119.27641	Deflection	Boom 1000ft	Yes	Remote <a href="#">SA-M-292.6R/N</a> McNary Dam boat launch	Osprey, Raptors, Waterfowl Concentrations	Launch boat from McNary Dam boat launch, <a href="#">BL-M-292.6R</a>	56	91

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-298.7L</b>	Hat Rock State Park 45.92125 -119.17266	Exclusion	Boom 1400ft	Yes	Onsite Stage at <a href="#">SA-M-298.7L/Hat Rock</a>	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch at <a href="#">BL-M-298.7L/Hat Rock</a>	56	93
<b>M-299.4L</b>	Channel upstream of McNary Yacht Club 45.92021 -119.16038	Exclusion	Boom 500ft	Yes	Remote Stage at McNary Yacht Club/ <a href="#">SA-M-299.1L</a>	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch at McNary Yacht Club/ <a href="#">BL-M-299.1L</a>	56	95
<b>M-299.5M</b>	Islands E of Hat Rock State Park 45.92230 -119.15682	Exclusion	Boom 500ft	Yes	Remote Stage at <a href="#">SA-M-298.7L/Hat Rock</a>	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch at <a href="#">BL-M-298.7L/Hat Rock</a>	56	97

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-299.8L</a>	Third Island E of Hat Rock State Park 45.92257 -119.15237	Exclusion	Boom 800ft	Yes	Remote Stage at <a href="#">SA-M-298.7L</a> /Hat Rock	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Notify Hat Rock State Park before staging equipment and for access assistance; call 541-910-6285 or 541-983-2277. Launch at <a href="#">BL-M-298.7L</a> /Hat Rock	56	99
<a href="#">M-299.9R</a>	Easterday Farms 45.93737 -119.14967	Deflection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-M-298.7L</a> /Hat Rock	Water Intakes	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch boat from Hat Rock State Park, <a href="#">BL-M-298.7L</a>	56	101
<a href="#">M-300.0L</a>	Warehouse Beach West 45.92015 -119.14391	Deflection	Boom 800ft	Yes	Onsite <a href="#">SA-M-300.0L</a> Warehouse Beach Recreation Area	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Warehouse Recreational Area, <a href="#">BL-M-300.0L</a>	56	103

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-300.3L</b>	Warehouse Beach East 45.92183 -119.13511	Exclusion	Boom 1000ft	Yes	Onsite Warehouse Beach Recreation Area <a href="#">SA-M-300.0L</a>	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Warehouse Recreational Area, <a href="#">BL-M-300.0L</a>	56	105
<b>M-300.9L</b>	Peninsula east of Warehouse Beach 45.92285 -119.12986	Deflection	Boom 500ft	Yes	Remote Sand Station Rec Area - bathroom, beach, lots of parking	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Warehouse Recreational Area, <a href="#">BL-M-300.0L</a>	56	107
<b>M-301.1L</b>	Sand Station Recreation Area- West 45.92284 -119.12066	Deflection	Boom 1000ft	Yes	Onsite Located at Sand Station Recreation Area - Can stage some equipment in the parking area.	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Hat Rock State Park, <a href="#">BL-M-298.7L</a>	56	109
<b>M-301.5L</b>	Sand Station Recreation Area-East (deflection) 45.92358 -119.11438	Deflection	Boom 700ft	Yes	Remote Pump station 1/4 mile east of Sand Station Rec Area - Can stage some equipment on site.	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Hat Rock State Park, <a href="#">BL-M-298.7L</a>	56	111

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-301.6L</a>	Sand Station Recreation Area- East 45.92366 -119.11355	Collection	Boom 500ft	Yes	Onsite Pump station 1/4 mile east of Sand Station Rec Area - Can stage some equipment on site.	Public Recreation Site/Area, Shallow Water Habitat, Waterfowl and Shorebird Concentrations	Launch boat from Hat Rock State Park, <a href="#">BL-M-298.7L</a>	56	113
<a href="#">M-302.3R</a>	Creek above pump station 45.94518 -119.10892	Exclusion	Boom 200ft	Yes	Remote Stage from <a href="#">SA-M-300.0L</a> / Warehouse Rec Area across the river	Creek Estuary, Water Intakes, Waterfowl (Wintering and Production)	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch from Warehouse Rec Area	56	115
<a href="#">M-305.9L</a>	Juniper Canyon 45.95832 -119.03747	Exclusion	Boom 300ft	Yes	Remote <a href="#">SA-M-298.7L</a> /Hat Rock	Public Recreation Site/Area, Waterfowl Concentrations	Limited access by land from Highway 730. Launch boat from Hat Rock State Park, <a href="#">BL-M-298.7L</a>	57	117
<a href="#">M-308.8R</a>	No Name Pond 45.99264 -119.00471	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-M-312.3L</a> / Walla Walla Yacht Club	Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at <a href="#">BL-M-312.3L</a> / Walla Walla Yacht Club	57	119

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-309.8R</b>	Palmer Pond 46.00524 -118.99600	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-M-312.3L/</a> Walla Walla Yacht Club	Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at  <a href="#">BL-M-312.3L/</a> Walla Walla Yacht Club	57	121
<b>M-310.3R</b>	Switch Pond 46.01036 -118.98944	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-M-312.3L/</a> Walla Walla Yacht Club	Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at  <a href="#">BL-M-312.3L/</a> Walla Walla Yacht Club	57	123
<b>M-311.4R</b>	Yellepit Pond 46.02206 -118.97284	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-M-312.3L/</a> Walla Walla Yacht Club	Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at  <a href="#">BL-M-312.3L/</a> Walla Walla Yacht Club	58	125

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-311.9R</a>	Mound Pond 46.02826 -118.96406	Exclusion	Boom 100ft	Yes	Remote Stage at <a href="#">SA-M-312.3L</a> / Walla Walla Yacht Club	Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at <a href="#">BL-M-312.3L</a> / Walla Walla Yacht Club	58	127
<a href="#">M-312.0L</a>	Port Kelley 46.02113 -118.94494	Collection	Boom 1000ft	Yes	Onsite Parking lots near site.	Recreational Use Area, Waterfowl	Launch boat from Walla Walla yacht club, <a href="#">BL-M-312.3L</a> .	58	129

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-314.5L</b>	NW Grain Growers 46.06083 -118.92100	Collection	Boom 1000ft	Yes	Onsite Parking lots at facility, need to contact NW grain growers for access.	Bald Eagle, Bird Habitat, Deer Habitat, General Fish and Wildlife Resources, Herons and Other Wading Birds, National Wildlife Refuge, Osprey, Public Recreation Site/Area, Raptors, Salmonid Concentrations and Habitat, Steelhead	Launch boat from Madam Dorian, <a href="#">BL-WWR-4R</a> .	58	131



Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-314.7L</b>	Walla Walla River mouth 46.06657 -118.91617	Exclusion	Boom 300ft	Yes	Remote <a href="#">BL-WWR-4R</a> Madam Dorian boat launch for staging	Bald Eagle, Deer Habitat, Herons and Other Wading Birds, Osprey, Public Recreation Site/Area, Raptors, Resident Fish, Riparian Area, Salmonid Concentrations and Habitat, Steelhead	Launch boat from Madam Dorian, <a href="#">BL-WWR-4R</a> .	58	133
<b>M-317.0L</b>	Attalia 46.10791 -118.92256	Collection	Boom 1000ft	Yes	Onsite Active rail yard, contact Union Pacific to access at (800) 848-8715. Room for parking at end of Attalia Road	Downstream Resources, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat	Launch upriver at <a href="#">BL-M-320.7L</a> / Casey Pond	58	135

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-317.5R</a>	Hover Park South 46.10240 -118.96731	Exclusion	Boom 900ft	Yes	Remote Stage on-site at the end of Cushman Rd Kennewick WA	Bald Eagle, Deer Habitat, Fish and Wildlife Resources, Osprey, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead	Launch boat from Casey Pond, <a href="#">BL-M-320.7L</a> .	58	137
<a href="#">M-317.8M</a>	Badger Island 46.11377 -118.94019	Deflection	Boom 1000ft	Yes	Remote Casey Pond <a href="#">SA-M-320.7L</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat access only. Launch boat from Casey Pond, <a href="#">BL-M-320.7L</a> .	58	139
<a href="#">M-318.3R</a>	Hover Park North 46.1884 -118.97527	Collection	Boom 1000ft	Yes	Onsite Stage on rough gravel road (4-wheel drive needed) in Hover Park.	Bald Eagle, Deer Habitat, Osprey, Public Recreation Site/Area, Waterfowl and Shorebird Concentrations	Launch boat from Casey Pond, <a href="#">BL-M-320.7L</a> .	58	141

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-319.2M</a>	Southern Peninsula, W of Casey Pond 46.12813 -118.96076	Deflection	Boom 500ft	Yes	Remote Casey Pond boat launch and staging area <a href="#">SA-M-320.7L</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat access only. Launch boat from Casey Pond, <a href="#">BL-M-320.7L</a> .	58	143
<a href="#">M-320.6L</a>	Casey Pond 46.15790 -118.95240	Exclusion	Boom 100ft	Yes	Remote Casey Pond boat launch and staging area <a href="#">SA-M-320.7L</a>	Recreational Fishery, Salmonid Concentrations and Habitat, Sensitive Nesting Species, Warm Water Fishery and Spawning, Waterfowl and Shorebird Concentrations	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch from Casey Pond, <a href="#">BL-M-320.7L</a> .	58	145

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-320.7L</a>	Casey Pond East 46.16417 -118.94825	Exclusion	Boom 100ft	Yes	Remote Stage at Casey Pond <a href="#">SA-M-320.7L</a>	Backwater Habitat, Recreational Fishery, Salmonid Concentrations and Habitat, Sensitive Nesting Species, Warm Water Fishery and Spawning, Waterfowl and Shorebird Concentrations	Launch boat from Casey Pond, <a href="#">BL-M-320.7L</a> .	<a href="#">58</a>	<a href="#">147</a>
<a href="#">M-321.9L</a>	Game Road 46.16906 -118.98118	Collection	Boom 1000ft	Yes	Onsite Gravel road near the strategy can be used for staging.	Downstream Resources	Can hand launch a boat on site.	<a href="#">59</a>	<a href="#">149</a>
<a href="#">M-322.6M</a>	Foundation Island 46.17191 -119.00419	Deflection	Boom 1000ft	Yes	Remote Two Rivers Park <a href="#">SA-M-324.3R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat access only, shallow water around the islands. Launch boat from Two Rivers Park, <a href="#">BL-M-324.3R</a> .	<a href="#">59</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="#">M-323.1M</a>	Vilard Pond 46.17860 -119.00183	Exclusion	Boom 300ft	No	Onsite End of unnamed dirt road.	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Access via water is difficult due to shallow water.	<a href="#">59</a>	<a href="#">153</a>
<a href="#">M-323.2R</a>	JR Simplot Co. 46.17380 -119.01833	Collection	Boom 800ft	Yes	Onsite JR Simplot Co.-large open areas near site can be used for staging	Downstream Resources	Use Two Rivers Park boat launch <a href="#">BL-M-324.3R</a> .	<a href="#">59</a>	<a href="#">155</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-323.4M</a>	Burbank 7 46.17967 -119.01400	Deflection	Boom 700ft	Yes	Remote Two Rivers Park <a href="#">SA-M-324.3R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Launch boat from Two Rivers Park, <a href="#">BL-M-324.3R</a> .	<a href="#">59</a>	<a href="#">157</a>
<a href="#">M-323.5M</a>	Burbank 6 46.18218 -119.01218	Exclusion	Boom 700ft	Yes	Remote Two Rivers Park <a href="#">SA-M-324.3R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat Access Only. Launch boat from Two Rivers Park, <a href="#">BL-M-324.3R</a> .	<a href="#">59</a>	<a href="#">159</a>

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-323.9M</b>	Burbank 5 46.18804 -119.01680	Exclusion	Boom 500ft	Yes	Remote Two Rivers Park <a href="#">SA-M-324.3R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat access only. Launch boat from Two Rivers Park, <a href="#">BL-M-324.3R</a> .	59	161
<b>M-324.1M</b>	Burbank 4 46.19055 -119.01954	Deflection	Boom 700ft	Yes	Remote Two Rivers Park <a href="#">SA-M-324.3R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Launch boat from Two Rivers Park, <a href="#">BL-M-324.3R</a> .	59	163

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-324.37M</a>	Burbank 3 46.19438 -119.02074	Exclusion	Boom 1000ft	Yes	Remote Sacajawea Park <a href="#">SA-MSN-1.0R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat access only. Launch boat from Sacajawea Park, <a href="#">BL-MSN-1.0R</a> .	59	165
<a href="#">M-324.44M</a>	Burbank 2 46.19614 -119.02278	Deflection	Boom 1000ft	Yes	Remote Sacajawea Park or Two Rivers Park <a href="#">SA-MSN-1.0R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Possible access via trail from Burbank. Launch boat from Sacajawea Park, <a href="#">BL-MSN-1.0R</a> .	59	167



Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-324.6M</a>	Burbank 1 46.19862 -119.02466	Exclusion	Boom 1000ft	Yes	Remote Sacajawea State Park <a href="#">SA-MSN-1.0R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat Access Only. Launch boat from Sacajawea Park, <a href="#">BL-MSN-1.0R</a> .	59	169
<a href="#">M-324.8R</a>	Two Rivers Park South 46.18804 -119.03873	Exclusion	Boom 800ft	Yes	Remote Two Rivers Park <a href="#">SA-M-324.3R</a>	Deer Habitat, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and Habitat, Steelhead, Waterfowl and Shorebird Concentrations	Boat access only - use <a href="#">BL-M-324.3R</a> Two Rivers Park boat launch	59	171
<a href="#">M-325.5R</a>	Two Rivers Park 46.19218 -119.04937	Deflection	Boom 1300ft	Yes	Onsite Two Rivers Park <a href="#">SA-M-324.3R</a>	City Park, Waterfowl and Salmonid Concentrations and Habitat	Launch boat onsite at Two Rivers Park, <a href="#">BL-M-324.3R</a> .	59	173

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-325.6L</a>	SW side of Sacajawea State Park 46.20188 -119.04731	Deflection	Boom 800ft	Yes	Onsite Plenty of staging available onsite at Sacajawea State Park. <a href="#">SA-MSN-1.0R</a>	State Park, Waterfowl and Salmonid Concentrations and Habitat	Use <a href="#">BL-MSN-1.0R</a> Sacajawea State Park boat launch	59	175
<a href="#">M-325.6R</a>	Two Rivers Park North 46.19481 -119.05348	Deflection	Boom 800ft	Yes	Onsite Stage at Two Rivers Park <a href="#">SA-M-324.3R</a>	City Park, Waterfowl and Salmonid Concentrations and Habitat	Launch boat onsite at Two Rivers Park, <a href="#">BL-M-324.3R</a> .	59	177
<a href="#">M-325.7R</a>	North of E Matzat Rd 46.19561 -119.05454	Deflection	Boom 800ft	Yes	Onsite N corner of Two Rivers Park <a href="#">SA-M-324.3R</a>		Launch at <a href="#">BL-M-324.3R</a> / Two Rivers	59	179
<a href="#">M-325.89L</a>	Tidewater CCP 46.20605 -119.05113	Collection	Boom 600ft	Yes	Onsite Large parking areas available nearby.	Downstream Resources	Use <a href="#">BL-M-328.1L</a> Pasco Boat Basin boat launch	59	181
<a href="#">M-325.9L</a>	Sacajawea Park Foot Bridge 46.20713 -119.05293	Collection	Boom 100ft	No	Onsite Parking lots nearby could be used for staging.		No boat needed for strategy.	59	183
<a href="#">M-326.1M</a>	Indian Island 46.20409 -119.05783	Deflection	Boom 1000ft	Yes	Remote Sacajawea State Park <a href="#">SA-MSN-1.0R</a>	Waterfowl and Salmonid Concentrations and Habitat	Launch boat from Sacajawea Park, <a href="#">BL-MSN-1.0R</a> .	59	185

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-326.5L</b>	SE Rd 27 Water Intake 46.20921 -119.06527	Deflection	Boom 800ft	Yes	Onsite Paved parking area for staging, will need bolt cutters to access pump house deck.	Downstream Resources, Water Intakes	Launch boat from Pasco Boat Basin, <a href="#">BL-M-328.1L</a> .	60	187
<b>M-327.1L</b>	East Dock Street 46.21290 -119.07506	Collection	Boom 800ft	Yes	Onsite Parking lots near site, boat launch at Pasco Boat Basin	Downstream Resources	Launch boat from Pasco Boat Basin, <a href="#">BL-M-328.1L</a> .	60	189
<b>M-328.0L</b>	Pasco Boat Basin 46.21819 -119.09136	Deflection	Boom 300ft	Yes	Onsite Stage on site at <a href="#">SA-M-328.1L</a> / Pasco Boat Basin	Recreational Boating	Launch on site at <a href="#">BL-M-328.1L</a> / Pasco Boat Basin	60	191
<b>M-328.4L</b>	10th Ave Bridge/N Gum St 46.21993 -119.10055	Collection	Boom 800ft	Yes	Onsite Paved roadside parking and pier available for staging	Downstream Resources	Launch at <a href="#">BL-M-328.1L</a> / Pasco Boat Basin	60	193
<b>M-328.9R</b>	Clover Island S 46.21539 -119.11743	Collection	Boom 1000ft	Yes	Onsite Will need bolt cutters to remove padlock on post by shoreside anchor pt. Stage on site at <a href="#">SA-M-328.9R</a> / Clover Island	Downstream Resources, Economic Resource, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-M-328.9R</a> / Clover Island	60	195

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-329.0M</b>	Clover Island N 46.21804 -119.11459	Deflection	Boom 800ft	Yes	Onsite Stage at <a href="#">SA-M-328.9R</a> Clover Island, parking lot across the street from the boat launch.	Economic Resource, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-M-328.9R/</a> Clover Island	60	197
<b>M-330.3R</b>	Columbia Park East (Kennewick) 46.22234 -119.13874	Exclusion	Boom 600ft	Yes	Onsite Stage on site at <a href="#">SA-M-330.2R/</a> Columbia Park East (Kennewick)	Boat Launch/Ramp, City Park, Creek Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-M-330.2R/</a> Columbia Park East (Kennewick)	60	199
<b>M-331.4L</b>	Wade Park 46.23244 -119.16256	Collection	Boom 900ft	Yes	Onsite Stage on site at <a href="#">SA-M-331.4L/</a> Wade Park	Boat Launch/Ramp, City Park, Downstream Resources, Water Intakes, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-M-331.4L/</a> Wade Park	60	201

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-332.8R</a>	Columbia Park West (Kennewick) 46.23131 -119.19188	Collection	Boom 800ft	Yes	Onsite Stage on site at <a href="#">SA-M-332.8R</a> / Columbia Park West (Kennewick)	Boat Launch/Ramp, Downstream Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-M-332.8R</a> / Columbia Park West (Kennewick)	60	203
<a href="#">M-333.3M</a>	Carpet Island 46.23859 -119.20337	Deflection	Boom 1000ft	Yes	Remote Stage at Chiawana Park boat launch <a href="#">SA-M-333.9L</a>	Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat	Launch at Chiawana Park boat launch <a href="#">BL-M-333.9L</a>	61	205
<a href="#">M-334.0R</a>	Columbia Park West Marina 46.24001 -119.21947	Exclusion	Boom 800ft	Yes	Onsite Stage on site at <a href="#">SA-M-334.0R</a> / Columbia Park Marina	Boat Basin/Marina, Recreational Boating, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-M-334.0R</a> / Columbia Park Marina	61	207

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-334.3M</a>	Bateman Island Creek 46.24293 -119.22135	Exclusion	Boom 500ft	Yes	Remote Stage at <a href="#">SA-M-334.0R/</a> Columbia Park Marina	Brooding Area, Public Recreation Site/Area, Salmonid Concentrations and Habitat, Sensitive Shoreline, Waterfowl and Shorebird Concentrations	Use <a href="#">BL-M-334.0R/</a> Columbia Park Marina	61	209
<a href="#">M-334.5L</a>	Chiawana Park Pier 46.24791 -119.21701	Collection	Boom 800ft	Yes	Onsite You can stage at large paved parking area adjacent to the pier (may need bolt cutters if gate is locked)	City Park, Downstream Resources, Recreational Shoreline Area, Waterfowl and Shorebird Concentrations	Launch boat at <a href="#">BL-M-333.9L/</a> Chiawana Park	61	211

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-335.0M</b>	N tip of Bateman Island 46.25139 -119.23093	Collection	Boom 1000ft	Yes	Onsite Stage at <a href="#">SA-YAK-0.5R</a> /Wye Park. You CAN drive to site (two locked gates and need 4-wheel drive)	City Park, Critical Waterfowl, Shorebird Nesting, and Brooding Area, Downstream Resources, Fish and Wildlife Resources, General Fish and Wildlife Resources, Salmonid Concentrations and Habitat, Sensitive Resources Nearby	Launch at <a href="#">BL-YAK-0.5R</a> / Wye Park	61	213

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-335.8R</a>	N shore confluence of the Columbia & Yakima Rivers 46.25926 -119.24104	Deflection	Boom 800ft	Yes	Remote Stage at <a href="#">SA-M-336.4R/</a> Columbia Pt Marine Park	Critical Waterfowl, Shorebird Nesting, and Brooding Area, Estuary Resources, Federally Protected Area/Lands, Habitat Management Unit, Salmonid Concentrations and Habitat	Launch boat from <a href="#">BL-M-336.4R/</a> Columbia Pt Marine Park	61	215
<a href="#">M-336.1R</a>	Hwy I-182 Bridge 46.26312 -119.24512	Collection	Boom 1600ft	Yes	Onsite Locked gate by marina parking lot, call City of Richmond but bring bolt cutters in case of delay	Downstream Resources, Recreational Boating, Waterfowl and Salmonid Concentrations and Habitat	Use <a href="#">BL-M-336.4R/</a> Columbia Pt Marine Park	61	217
<a href="#">M-336.4R</a>	Columbia Point Marine Park 46.26518 -119.25063	Exclusion	Boom 400ft	Yes	Onsite Stage on site at <a href="#">SA-M-336.4R/</a> Columbia Pt Marine Park - huge parking lot and all amenities	Marina, Recreational Boating, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-M-336.4R/</a> Columbia Pt Marine Park	61	219



Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-337.3R</b>	South end of Howard Amon Park 46.27177 -119.26791	Collection	Boom 1200ft	Yes	Onsite Stage on site, area has a large gravel parking area and an abandoned boat launch	Downstream Resources, Recreational Shoreline Area, Waterfowl and Shorebird Concentrations	<a href="#">BL-M-337.8R/</a> Howard Ammon Park	61	221
<b>M-337.8R</b>	Howard Ammon Park 46.28074 -119.27099	Collection	Boom 1600ft	Yes	Onsite <a href="#">SA-M-337.8R/</a> Howard Ammon Park	Downstream Resources, Public Recreation Site/Area, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations	<a href="#">BL-M-337.8R/</a> Howard Ammon Park	61	223
<b>M-338.2L</b>	USACE land, Burns family dock 46.28550 -119.26287	Collection	Boom 800ft	Yes	Onsite Stage on site, owned by USACE, leased by the Burn's family (who live across the street). Dock/equipment private	Downstream Resources, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations	Boat launch on site	61	225

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>M-340.3R</b>	Leslie Groves Park 46.31639 -119.26006	Deflection	Boom 1000ft	Yes	Onsite <a href="#">SA-M-340.3R/</a> Leslie Groves Park	Boat Launch/Ramp, Downstream Resources, Recreational Shoreline Area, Water Intakes, Waterfowl and Shorebird Concentrations	<a href="#">BL-M-340.3R/</a> Leslie Groves Park	61	227
<b>M-340.7L</b>	Selph Landing 46.32108 -119.24881	Collection	Boom 800ft	Yes	Onsite <a href="#">SA-M-340.7L</a> /Selph Landing, lots of parking along gravel road	Downstream Resources, Waterfowl and Shorebird Concentrations	Launch on-site at <a href="#">BL-M-340.7L/</a> Selph Landing	61	229
<b>M-342.8R</b>	Port of Benton C-Ave Docking Area 46.34860 -119.26657	Collection	Boom 800ft	Yes	Onsite Gated off landing area - with paved parking (Call Port of Benton for access but bring bolt cutters)	Critical Waterfowl, Shorebird Nesting, and Brooding Area, Great Blue Heron Rookeries, Waterfowl and Shorebird Concentrations	Use <a href="#">BL-M-340.3R/</a> Leslie Groves Park	61	231

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">MSN-0.8M</a>	Second inlet below railroad bridge 46.19925 -119.02636	Deflection	Boom 1000ft	Yes	Remote Stage at <a href="#">SA-MSN-1.0R/</a> Sacajawea State Park, Call Park Manager at (509) 366-5180	Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat	Launch at <a href="#">BL-MSN-1.0R/</a> Sacajawea State Park	59	233
<a href="#">MSN-1.0R</a>	Sacajawea State Park Boat Basin 46.20175 -119.03672	Collection	Boom 1000ft	Yes	Onsite Stage on site at <a href="#">SA-MSN-1.0R/</a> Sacajawea State Park. Call Park Manager at (509) 366-5180	Boat Launch/Ramp, Downstream Resources, Recreational Shoreline Area, State Park, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-MSN-1.0R/</a> Sacajawea State Park.	59	235
<a href="#">MSN-1.55L</a>	Schnitzer Steel 46.20674 -119.02680	Exclusion	Boom 300ft	Yes	Remote Stage out of <a href="#">SA-MSN-2.2L/</a> Grain Terminal Road	Sensitive Wetland Habitat, Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at <a href="#">BL-MSN-2.2L/</a> Grain Terminal, beware of shallow water.	59	237

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">MSN-1.56R</a>	North of train bridge & Sacajawea Park 46.20850 -119.03296	Deflection	Boom 700ft	Yes	Remote Stage at <a href="#">SA-MSN-1.0R/</a> Sacajawea State Park. Call Park Manager at (509) 366-5180 if gate closed/ unlocked	Downstream Habitat, State Park, Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. BNSF Private Road provides better access to shoreline. Launch from <a href="#">BL-MSN-1.0R/</a> Sacajawea State Park, good beach access from boat but may be shallow so bring waders.	59	239
<a href="#">MSN-2.1L</a>	Grain Terminal 46.21371 -119.02061	Exclusion	Boom 1100ft	Yes	Remote Stage at <a href="#">SA-MSN-2.2L/</a> Grain Terminal in the parking area near the launch ramp.	Recreational Use Area, Sensitive Wetland Area, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-MSN-2.2L/</a> Grain Terminal	59	241

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">MSN-2.8L</a>	Hood Park North 46.21920 -119.01008	Deflection	Boom 1000ft	Yes	Onsite Stage on site at <a href="#">SA-MSN-2.3L/</a> Hood Park. Can drive boom close to the onshore anchoring spot if no campers nearby.	Recreational Shoreline Area, Sensitive Resources, USACE Management Area, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-MSN-2.3L/</a> Hood Park	59	243
<a href="#">MSN-2.9R</a>	Tidewater's Pasco Facility 46.22483 -119.01213	Deflection	Boom 600ft	Yes	Onsite Contact Tidewater facility and wear appropriate PPE to access site	Economic Resource, Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat, Wildlife Refuge	Tidewater staff may implement strategy with their own boat and boom, if not use Hood Park <a href="#">BL-MSN-2.3L</a>	59	245
<a href="#">MSN-4.0M</a>	Strawberry Island (Part of McNary Wildlife Refuge) 46.22888 -118.99483	Exclusion	Boom 1200ft	Yes	Remote Stage at <a href="#">SA-MSN-2.3L/</a> Hood Park	Great Blue Heron, State Protected Area/Lands, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat, Wildlife Refuge	Launch at <a href="#">BL-MSN-2.3L/</a> Hood Park	59	247

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">MSN-4.5L</a>	Pumping Plant Rd 46.23239 -118.98160	Collection	Boom 200ft	Yes	Onsite Stage on-site next to water intake facility. Room for several vehicles, boom, and other equipment.	Downstream Resources, Water Intakes, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-MSN-2.3L/ Hood Park</a>	59	249
<a href="#">MSN-4.6M</a>	N tip of Strawberry Island 46.23614 -118.98274	Deflection	Boom 1700ft	Yes	Remote Stage at <a href="#">SA-MSN-2.3L/ Hood Park</a>	Great Blue Heron, Migratory Waterfowl, Riparian Habitat, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-MSN-2.3L/ Hood Park</a>	59	251
<a href="#">MSN-6.1L</a>	Island off of Island View Rd 46.23695 -118.95406	Exclusion	Boom 1000ft	Yes	Onsite Gravel parking area where Island View Rd first meets the water (water intake facility)	Water Intakes, Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-MSN-2.3L/ Hood Park</a>	59	253

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">MSN-8.4L</a>	SE of Goose Island 46.24343 -118.90393	Collection	Boom 1000ft	Yes	Onsite Gravel road just west of the dam off of Monument Rd, room for vac truck and multiple vehicle parking	Downstream Resources, Waterfowl and Salmonid Concentrations and Habitat	Site may have swift of shallow water depending on seasonality.	59	255
<a href="#">MSN-8.4M</a>	Goose Island 46.24488 -118.90327	Deflection	Boom 600ft	Yes	Remote Stage at Hood Park <a href="#">SA-MSN-2.3L</a>	Waterfowl and Salmonid Concentrations and Habitat	Launch from <a href="#">BL-MSN-2.3L</a> / Hood Park	59	257
<a href="#">MSN-9.5R</a>	Ice Harbor Lock 46.25117 -118.88451	Collection	Boom 300ft	Yes	Remote Stage from upstream <a href="#">SA-SIH-9.9R</a> / Ice harbor. Contact Ice Harbor Dam Control prior to deploying strategy (509) 547-778	Downstream Resources, Lock and Dam	Launch from upstream <a href="#">BL-SIH-9.9R</a> / Ice harbor	59	259
<a href="#">WWR-4.0R</a>	Madame Dorion Memorial Park (M-314.7L) 46.06273 -118.90328	Collection	Boom 300ft	Yes	Onsite <a href="#">SA-WWR-4R</a> / Madam Dorian	Bald Eagle, Boat Launch/Ramp, Deer Habitat, Recreational Fishery, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at <a href="#">BL-WWR-4R</a> / Madam Dorian	58	261

Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">YAK-0.5R</a>	Wye Park boat launch 46.23885 -119.22869	Collection	Boom 800ft	Yes	Onsite Paved parking on site at <a href="#">SA-YAK-0.5R/</a> Wye Park	Boat Launch/Ramp, City Park, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations	Launch on site at <a href="#">BL-YAK-0.5R/</a> Wye Park	<a href="#">61</a>	<a href="#">263</a>
<a href="#">YAK-2.1L</a>	Hwy 240 Bridge - George Washington Way 46.25477 -119.25611	Collection	Boom 800ft	Yes	Onsite Stage on-site large gravel parking area	Critical Waterfowl, Shorebird Nesting, and Brooding Area, Downstream Resources, Public Recreation Site/Area, Salmonid Concentrations and Habitat	Hand launch a boat from the north shore	<a href="#">61</a>	<a href="#">265</a>



Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">YAK-4.2L</a>	Chamna Natural Preserve, Tapteal Water Trail 46.25670 -119.28752	Collection	Boom 600ft	Yes	Onsite Paved parking area with paved path to the water (may need to cut back vegetation by the water for vac truck)	City Park, Critical Waterfowl, Shorebird Nesting, and Brooding Area, Fish and Wildlife Resources, Public Recreation Site/Area, Salmon Concentrations and Habitat	Bring bolt cutters to remove padlock from post in paved path, must hand launch boat	<a href="#">61</a>	<a href="#">267</a>

#### 4.5.3 Notification Strategy Matrices

Name	Location	Strategy Type	Resources at Risk	Implementation	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-292.6-N</a>	McNary Lock and Dam Notification 45.93603 -119.29659	Notification	Lock and Dam	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.	Notify the McNary Lock & Dam so that they can take action to protect their lock and fish ladders	56	271
<a href="#">M-293.0L-N</a>	City of Umatilla Public Works Department 45.93047 -119.28841	Notification	Water Intakes	Contact City of Umatilla Public Works Department and notify to monitor situation and potentially shut off wells or water intakes.	Alert to need to monitor and potentially shut off large municipal wells and/or surface water intake.	56	273
<a href="#">M-293.1L-N</a>	City of Hermiston Water Department 45.93064 -119.28667	Notification	Public Health and Safety, Water Intakes	May shut down water intakes or wells	Alert to need to monitor and potentially shut off large municipal well located less than 500 feet from river bank.	56	275

Name	Location	Strategy Type	Resources at Risk	Implementation	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">M-309.4-N</a>	Oregon Water Resources Dept. 45.99957 -118.98749	Notification	Water Intakes	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	Notify Oregon Water Resources Department for the need for water intake closures	<a href="#">57</a>	<a href="#">277</a>
<a href="#">M-316.5-N</a>	Boise Paper Inc. 46.10106 -118.92155	Notification	Economic Resource, Water Intakes	Call the Boise Paper Environmental Safety Manager at (509) 545-3241 who will then work with Incident Command to determine the need to shut off their water intake pipe.	Notify Water Intake User	<a href="#">58</a>	<a href="#">279</a>
<a href="#">M-328.4-N</a>	Kennewick Water Treatment Plant 46.21478 -119.10471	Notification	Economic Resource, Water Intakes	Call (509) 585-4247 (24 hours), to have them shut off water intake at water treatment facility	Shut off water intake	<a href="#">60</a>	<a href="#">281</a>

<b>Name</b>	<b>Location</b>	<b>Strategy Type</b>	<b>Resources at Risk</b>	<b>Implementation</b>	<b>Comments</b>	<b>Sector Map (Page #)</b>	<b>Strategy Details (Page#)</b>
<b>M-336.1-N</b>	Pasco Water Intake Pipes 1 and 2 46.26584 -119.24115	Notification	Water Intakes	Call (509) 531-9919 (24 hours), to have them shut off water intake at water treatment facility	Shut off water intakes	61	283
<b>M-340.2-N</b>	Richland Water Intake Facility 46.31478 -119.25951	Notification	Water Intakes	Call Richland Water Treatment Plant Operator's 24 hour emergency number (509) 531-4480.	Notification of a spill to allow the facility to close down water intake	61	285
<b>M-343.0-N</b>	North Richland Irrigation water intake 46.35120 -119.26595	Notification	Economic Resource, Water Intakes	Call the Richland Water Treatment Plant – Water Operators 24 hour emergency number (509) 531-4480 to have them shut down water intake pipe.	Notify City of Richland to shut off water intake pipe.	61	287

Name	Location	Strategy Type	Resources at Risk	Implementation	Comments	Sector Map (Page #)	Strategy Details (Page#)
MSN-2.0-N	Andeavor Pasco Facility 46.21501 -119.03123	Notification	Downstream Resources, Economic Resource, Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat	Call Andeavor's Pasco facility manager at (509) 543-6100 (M-F 8 to 5) or (509) 543-6102 (After Hours). Upon notification Andeavor management will work with incident command to determine if or when to deploy collection strategy. Once deployed, or if unable to deploy for some reason, a Tidewater representative will contact the WA ECY PREP Pager Duty Officer at (360) 923-6020.	Deployment of a collection strategy	59	289

Name	Location	Strategy Type	Resources at Risk	Implementation	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">MSN-2.8-N</a>	Tidewater, Pasco Facility 46.22148 -119.02060	Notification	Downstream Resources, Economic Resource, Sensitive Resources Nearby, Waterfowl and Salmonid Concentrations and Habitat	Call Tidewater's Pasco facility manager at (509) 547-7701 (M-F 8 to 5) or (509) 727-1585 (After Hours). Upon notification Tidewater management will work with incident command to determine if and when to deploy <a href="#">MSN-2.9R</a> . Once deployed, or if unable to deploy for some reason, a Tidewater representative will contact the WA ECY PREP Pager Duty Officer at (360) 923-6020. Implementation of <a href="#">MSN-2.9R</a> by contractors is an alternative option.	Deployment of GRP strategy <a href="#">MSN-2.9R</a> a deflection strategy	59	291
<a href="#">YAK-3.45R-N</a>	Badger Mountain Irrigation District pump station 46.24629 -119.27123	Notification	Water Intakes	Call Badger Mountain Irrigation District (24/7) 509-539-5682 and inform them of any significant oil spill or potential spill that threatens to impact their water intake so that they can take action to protect the resources under their control	Notify the Badger Mountain Irrigation District so that they can take action to protect their pump station	61	295

#### 4.5.4 Staging Area Matrices

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-M-292.6L</a>	McNary South Shore boat launch	45.92721 -119.29036	100 Launch Lane Umatilla, OR 97882	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-292.6L</a>	USACE paved lot and three boat ramps 7.5 degree average grade	56	299
<a href="#">SA-M-292.6R</a>	McNary Dam North Shore boat launch	45.94378 -119.29894	81226 Mc Nary Rd Kennewick, WA 99338	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-293.7R</a> , <a href="#">M-292.63R</a> , <a href="#">M-292.6R</a> ,	Paved USACE staging area and concrete boat ramp	56	301
<a href="#">SA-M-298.7L</a>	Hat Rock State Park boat launch	45.91770 -119.17445	82200 Hat Rock Rd Hermiston, OR 97838	Hat Rock State Park Hat Rock SP manager of boat launch Hermiston, OR 97838 (541) 983-2277	<a href="#">M-305.9L</a> , <a href="#">M-298.7L</a> , <a href="#">M-299.9R</a>	Paved staging area, 2 concrete boat ramps 7.4 degree grade	56	303
<a href="#">SA-M-299.1L</a>	McNary Yacht Club boat launch	45.92003 -119.16470	34099 Beach Shore Drive Hermiston, OR 97838	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-299.8L</a> , <a href="#">M-299.5M</a> , <a href="#">M-299.4L</a>	Marina staging area and launch with one concrete ramp	56	305
<a href="#">SA-M-300.0L</a>	Warehouse Beach Rec Area boat launch	45.91958 -119.14324	100 Landing Rd Hermiston, OR 97838	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-300.3L</a> , <a href="#">M-300.0L</a> , <a href="#">M-302.3R</a>	Primitive launch with gravel ramp and staging area	56	307

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-M-301.2L</a>	Sand Station Recreation Area	45.92179 -119.12008	Landing Road Hermiston, OR 97838	USACE McNary Control Room  WA (541) 922-2231	<a href="#">M-300.9L</a> , <a href="#">M-301.1L</a>	Restrooms, beaches, camping suitable for staging	56	309
<a href="#">SA-M-312.3L</a>	Walla Walla Yacht Club	46.02641 -118.93659	299 Port Kelly Road Touchet, WA 99360	Walla Walla Yacht Club Manages Marina@ USACE's Walla Walla boat launch Kennewick, WA 99337 (509) 547-4946	<a href="#">M-311.9R</a> , <a href="#">M-309.8R</a> , <a href="#">M-310.3R</a> , <a href="#">M-308.8R</a> , <a href="#">M-311.4R</a>	Paved staging area, private marina and USACE boat launch	58	311
<a href="#">SA-M-320.7L</a>	Casey Pond Boat Launch, McNary Wildlife Refuge	46.16133 -118.95495	2955 Hanson Loop Rd Burbank, WA 99323	US Fish and Wildlife Service, McNary and Umatilla National Wildlife Refuges Property Contact Burbank, WA 99323 (509) 546-8300	<a href="#">M-320.7L</a> , <a href="#">M-317.8M</a> , <a href="#">M-320.6L</a> , <a href="#">M-319.2M</a>	Staging area and concrete boat launch	58	313
<a href="#">SA-M-324.3R</a>	Two Rivers Park boat launch	46.18419 -119.03252	220880 East Finley Road Kennewick, WA 99337	Two Rivers Park Manage Two Rivers Park boat launch Kennewick, WA 99337 (509) 531-7106	<a href="#">M-322.6M</a> , <a href="#">M-323.1M</a> , <a href="#">M-323.9M</a> , <a href="#">M-323.5M</a> , <a href="#">M-324.8R</a> ,  <a href="#">M-323.4M</a> , <a href="#">M-324.1M</a>	Lighted gravel lot (staging area) with 2 concrete boat ramps	59	315
<a href="#">SA-M-328.1L</a>	Pasco Boat Basin Boat Launch	46.21937 -119.09150	1315 South 4th Ave Pasco, WA 99301	City of Pasco Recreation Service  Pasco, WA 99301 (509) 545-3456	<a href="#">M-328.0L</a>	Paved staging area and boat launch next to a marina	60	317



Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-M-328.9R</a>	Clover Island boat launch	46.21724 -119.11592	350 Clover Island Dr. Kennewick, WA 99336	Port of Kennewick (509) 586-1186 Manages Clover Island boat launch (they have boom) Kennewick, WA 99336	<a href="#">M-329.0M</a> , <a href="#">M-328.9R</a>	Lighted paved lots for staging, 3 boat ramps, Marina, and ECY spill trailer at the other end of the island by USCG station	60	319
<a href="#">SA-M-330.2R</a>	Columbia Park East boat launch (Kennewick)	46.22229 -119.13877	1106 Columbia Park Trail Richland, WA 99336	City of Kennewick Parks, Rec and Tourism Manages boat launches Kennewick, WA 99352	<a href="#">M-330.3R</a>	Large lighted/paved staging area and 4 boat ramps, with 7 degree avg. grade	60	321
<a href="#">SA-M-331.4L</a>	Wade Park Boat Launch	46.23264 -119.16200	601 Road 54 Pasco, WA 99301	City of Pasco Recreation Service Pasco, WA 99301 (509) 545-3456	<a href="#">M-331.4L</a>	Large paved lot and two boat ramps	60	323
<a href="#">SA-M-332.8R</a>	Columbia Park West	46.23087 -119.19155	1548 N Edison St. Kennewick, WA 99336	City of Kennewick Parks, Rec and Tourism Manages boat launches Kennewick, WA 99352	<a href="#">M-332.8R</a>	Paved lighted staging area with concrete boat ramp	60	325
<a href="#">SA-M-333.9L</a>	Chiawana Park boat launch	46.24385 -119.20630	100 Chiawana Park Rd Pasco, WA 99301	City of Pasco Recreation Service Pasco, WA 99301 (509) 545-3456		Boat launch with two ramps 7degree grade, plus a park with staging area	60	327

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-M-334.0R</a>	Columbia Park Marina	46.23810 -119.21915	1776 Columbia Park Trail Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-334.3M</a> , <a href="#">M-334.0R</a>	Large marina with 3 public boat ramps, 7-8 degree grade, and lots of lighted parking	61	329
<a href="#">SA-M-336.4R</a>	Columbia Point Marine Park boat launch	46.26387 -119.24973	660 Columbia Point Drive Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-336.4R</a> , <a href="#">M-335.8R</a>	Marina and park lighted staging area with four boat ramps	61	331
<a href="#">SA-M-337.8R</a>	Howard Amon Park	46.28098 -119.27210	900 Amon Park Road North, Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-337.8R</a>	Paved lighted staging area and two ramps, each with a 7 degree grade	61	333
<a href="#">SA-M-340.3R</a>	Leslie Groves Park boat launch	46.31439 -119.26056	2 Snyder Street Richland, WA 99354	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-340.3R</a>	Lighted paved staging area with three concrete boat ramps	61	335

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">SA-M-340.7L</a>	Selph Landing boat launch	46.32112 -119.24853	10099 Selph Landing Rd Pasco, WA 99301	USACE Ice Harbor pool Natural Resources Manager Ice Harbor Dam, WA (509) 547-2048	<a href="#">M-340.7L</a>	Primitive launch with room for staging area	61	337
<a href="#">SA-MSN-1.0R</a>	Sacajawea State Park boat launch	46.20166 -119.03835	2503 Sacajawea Park Road Pasco, WA 99301	Washington State Parks and Recreation Commission Sacajawea State Park Pasco, WA 99301 (509) 545-2361	<a href="#">M-324.6M</a> , <a href="#">MSN-1.0R</a> , <a href="#">MSN-1.56R</a> , <a href="#">MSN-0.8M</a> , <a href="#">M-326.1M</a> , <a href="#">M-324.37M</a>	State park staging area and boat launch, gated and fee. Call Park Manager, Christian Ford at (509) 366-5180	59	339
<a href="#">SA-MSN-2.2L</a>	Grain Terminal Rd USACE boat launch	46.21070 -119.01784	577 S 2nd Street Burbank, WA 99323	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">MSN-2.1L</a> , <a href="#">MSN-1.55L</a>	11,00 sq. ft. Gravel lot by 1 concrete boat ramp, opposite side of the inlet is additional 12,325 sq. ft. gravel lot with bathroom	59	341
<a href="#">SA-MSN-2.3L</a>	Hood Park USACE boat launch	46.21458 -119.01905	100 Hood Park Road Burbank, WA 99323	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">MSN-2.8L</a> , <a href="#">MSN-4.0M</a> , <a href="#">MSN-4.6M</a>	Paved 41,600 sq. ft. lot, lighted, 3 ramps @ 6.5 degree grade with floating docks	59	343
<a href="#">SA-WWR-4R</a>	Madame Dorion Memorial Park US Fish and Wildlife boat launch	46.06231 -118.90348	324 Western Farmer Road Touchet, WA 99360	US Fish and Wildlife Service, McNary and Umatilla National Wildlife Refuges Property Contact Burbank, WA 99323 (509) 546-8300	<a href="#">WWR-4.0R</a> , <a href="#">M-314.7L</a>	Gravel lot next to 1 concrete boat ramp	58	347

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
SA-YAK-0.5R	Wye Park boat launch	46.23865 -119.22875	1600 Columbia Park Trail Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	YAK-0.5R	Wye Park has 1 gravel ramp 7 degree grade, and area for staging	61	349

#### 4.5.5 Boat Launch Matrices

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-M-292.6L</a>	McNary South Shore boat launch	45.92721 -119.29036	100 Launch Lane Umatilla, OR 97882	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-292.6L</a>	USACE paved, lighted lot and three boat ramps 7.5 degree average grade	56	353
<a href="#">BL-M-292.6R</a>	McNary Dam North Shore boat launch	45.94378 -119.29894	81226 Mc Nary Rd Kennewick, WA 99338	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-293.7R</a> , <a href="#">M-292.63R</a> , <a href="#">M-292.6R</a> ,	Paved USACE staging area and concrete boat ramp	56	355
<a href="#">BL-M-298.7L</a>	Hat Rock State Park boat launch	45.91770 -119.17445	82200 Hat Rock Rd Hermiston, OR 97838	Hat Rock State Park Hat Rock SP manger of boat launch Hermiston, OR 97838 (541) 983-2277	<a href="#">M-305.9L</a> , <a href="#">M-298.7L</a> , <a href="#">M-299.9R</a>	Paved staging area, 2 concrete boat ramps 7.4 degree grade	56	357
<a href="#">BL-M-299.1L</a>	McNary Yacht Club boat launch	45.92003 -119.16470	34099 Beach Shore Drive Hermiston, OR 97838	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-299.8L</a> , <a href="#">M-299.5M</a> , <a href="#">M-301.5L</a> , <a href="#">M-301.6L</a> , <a href="#">M-301.1L</a> , <a href="#">M-299.4L</a>	Marina staging area and launch with one concrete ramp	56	359
<a href="#">BL-M-300.0L</a>	Warehouse Beach Rec Area boat launch	45.91958 -119.14324	100 Landing Rd Hermiston, OR 97838	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">M-300.3L</a> , <a href="#">M-300.0L</a> , <a href="#">M-300.9L</a> , <a href="#">M-302.3R</a>	Primitive launch with gravel ramp and staging area	56	361

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-M-312.3L</a>	Walla Walla Yacht Club	46.02641 -118.93659	299 Port Kelly Road Touchet, WA 99360	Walla Walla Yacht Club Manages Marina@ USACE's Walla Walla boat launch Kennewick, WA 99337 (509) 547-4946	<a href="#">M-311.9R</a> , <a href="#">M-312.0L</a> , <a href="#">M-309.8R</a> , <a href="#">M-310.3R</a> , <a href="#">M-308.8R</a> , <a href="#">M-311.4R</a>	Paved staging area, private marina and USACE boat launch 9 degree grade	58	363
<a href="#">BL-M-320.7L</a>	Casey Pond Boat Launch, McNary Wildlife Refuge	46.16133 -118.95495	2955 Hanson Loop Rd Burbank, WA 99323	US Fish and Wildlife Service, McNary and Umatilla National Wildlife Refuges Property Contact Burbank, WA 99323 (509) 546-8300	<a href="#">M-318.3R</a> , <a href="#">M-320.7L</a> , <a href="#">M-317.0L</a> , <a href="#">M-317.8M</a> , <a href="#">M-317.5R</a> , <a href="#">M-320.6L</a> , <a href="#">M-319.2M</a>	Staging area and concrete boat launch	58	365
<a href="#">BL-M-324.3R</a>	Two Rivers Park boat launch	46.18419 -119.03252	220880 East Finley Road Kennewick, WA 99337	Two Rivers Park Manage Two Rivers Park boat launch Kennewick, WA 99337 (509) 531-7106	<a href="#">M-322.6M</a> , <a href="#">M-323.9M</a> , <a href="#">M-323.2R</a> , <a href="#">M-323.5M</a> , <a href="#">M-325.7R</a> , <a href="#">M-324.8R</a> , <a href="#">M-325.6R</a> ,  <a href="#">M-323.4M</a> , <a href="#">M-325.5R</a> , <a href="#">M-324.1M</a>	Lighted gravel lot (staging area) with 2 concrete boat ramps, 8 degree grade	59	367
<a href="#">BL-M-328.1L</a>	Pasco Boat Basin Boat Launch	46.21937 -119.09150	1315 South 4th Ave Pasco, WA 99301	City of Pasco Recreation Service  Pasco, WA 99301 (509) 545-3456	<a href="#">M-328.4L</a> , <a href="#">M-327.1L</a> , <a href="#">M-326.5L</a> , <a href="#">M-328.0L</a> , <a href="#">M-325.89L</a>	Paved staging area and boat launch next to a marina	60	369

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-M-328.9R</a>	Clover Island boat launch	46.21724 -119.11592	350 Clover Island Dr. Kennewick, WA 99336	Port of Kennewick (509) 586-1186 Manages Clover Island boat launch (they have boom) Kennewick, WA 99336	<a href="#">M-329.0M</a> , <a href="#">M-328.9R</a>	Lighted paved lots for staging, 3 boat ramps, Marina, and ECY spill trailer at the other end of the island by USCG station	60	371
<a href="#">BL-M-330.2R</a>	Columbia Park East boat launch (Kennewick)	46.22229 -119.13877	1106 Columbia Park Trail Richland, WA 99336	City of Kennewick Parks, Rec and Tourism Manages boat launches Kennewick, WA 99352	<a href="#">M-330.3R</a>	Large lighted/paved staging area and 4 boat ramps, with 7 degree average grade	60	373
<a href="#">BL-M-331.4L</a>	Wade Park Boat Launch	46.23264 -119.16200	601 Road 54 Pasco, WA 99301	City of Pasco Recreation Service Pasco, WA 99301 (509) 545-3456	<a href="#">M-331.4L</a>	Large lighted paved lot and two boat ramps	60	375
<a href="#">BL-M-332.8R</a>	Columbia Park West	46.23087 -119.19155	1548 N Edison St. Kennewick, WA 99336	City of Kennewick Parks, Rec and Tourism Manages boat launches Kennewick, WA 99352	<a href="#">M-332.8R</a>	Paved lighted staging area with concrete boat ramp, 7.5 degree grade and an anchor point	60	377
<a href="#">BL-M-333.9L</a>	Chiawana Park boat launch	46.24385 -119.20630	100 Chiawana Park Rd Pasco, WA 99301	City of Pasco Recreation Service Pasco, WA 99301 (509) 545-3456	<a href="#">M-334.5L</a>	Boat launch with two ramps 7degree grade, plus a park with staging area	60	379

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-M-334.0R</a>	Columbia Park Marina	46.23810 -119.21915	1776 Columbia Park Trail Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-334.3M</a> , <a href="#">M-334.0R</a>	Large marina with 3 public boat ramps, 7-8 degree grade, and lots of lighted parking	61	381
<a href="#">BL-M-336.4R</a>	Columbia Point Marine Park boat launch	46.26387 -119.24973	660 Columbia Point Drive Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-336.1R</a> , <a href="#">M-336.4R</a> , <a href="#">M-335.8R</a>	Marina and park lighted staging area with four boat ramps, each has a 7 degree grade	61	383
<a href="#">BL-M-337.8R</a>	Howard Amon Park	46.28098 -119.27210	900 Amon Park Road North, Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-337.8R</a> , <a href="#">M-337.3R</a>	Paved lighted staging area and two ramps, each with a 7 degree grade	61	385
<a href="#">BL-M-340.3R</a>	Leslie Groves Park boat launch	46.31439 -119.26056	2 Snyder Street Richland, WA 99354	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<a href="#">M-342.8R</a> , <a href="#">M-340.3R</a>	Lighted paved staging area with three concrete boat ramps	61	387



Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<a href="#">BL-M-340.7L</a>	Selph Landing boat launch	46.32112 -119.24853	10099 Selph Landing Rd Pasco, WA 99301	USACE Ice Harbor pool Natural Resources Manager Ice Harbor Dam, WA 509-547-2048	<a href="#">M-340.7L</a>	Primitive launch, gravel ramp 8 degree grade, with room for staging area	61	389
<a href="#">BL-MSN-1.0R</a>	Sacajawea State Park boat launch	46.20166 -119.03835	2503 Sacajawea Park Road Pasco, WA 99301	Washington State Parks and Recreation Commission Sacajawea State Park Pasco, WA 99301 (509) 545-2361	<a href="#">M-325.6L</a> , <a href="#">M-324.6M</a> , <a href="#">M-324.44M</a> , <a href="#">MSN-1.0R</a> , <a href="#">MSN-1.56R</a> , <a href="#">MSN-0.8M</a> , <a href="#">M-326.1M</a> , <a href="#">M-324.37M</a>	State park staging area and boat launch, gated and fee. Call Park Manager, Christian Ford at (509) 366-5180	59	391
<a href="#">BL-MSN-2.2L</a>	Grain Terminal Rd USACE boat launch	46.21070 -119.01784	577 S 2nd Street Burbank, WA 99323	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">MSN-2.1L</a> , <a href="#">MSN-1.55L</a>	1 concrete boat ramp, gated, open 4am- 10pm, daily between Sept 15 and May 15. Shallow water vessels only	59	393
<a href="#">BL-MSN-2.3L</a>	Hood Park USACE boat launch	46.21458 -119.01905	Pasco, WA 99301	USACE McNary pool Natural Resource Manager McNary Dam, OR (541) 922-2268	<a href="#">MSN-2.8L</a> , <a href="#">MSN-4.5L</a> , <a href="#">MSN-4.0M</a> , <a href="#">MSN-4.6M</a>	Paved 41,600 sq. ft. lot, lighted, 3 ramps at 6.5 degree grade with floating docks	60	395
<a href="#">BL-WWR-4R</a>	Madame Dorion Memorial Park US Fish and Wildlife boat launch	46.06231 -118.90348	324 Western Farmer Road Touchet, WA 99360	US Fish and Wildlife Service, McNary and Umatilla National Wildlife Refuges Property Contact Burbank, WA 99323 (509) 546-8300	<a href="#">WWR-4.0R</a> , <a href="#">M-314.7L</a> , <a href="#">M-314.5L</a>	1 concrete boat ramp with gravel lot	58	399

Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
<b>BL-YAK-0.5R</b>	Wye Park boat launch	46.23865 -119.22875	1600 Columbia Park Trail Richland, WA 99352	City of Richland Parks and Recreation Department Manages this boat launch Richland, WA 99352 (509) 942-7529	<b>YAK-0.5R, M-335.0M</b>	Wye Park has 1 gravel ramp 7 degree grade, and area for staging	<b>61</b>	<b>401</b>

**APPENDIX 4A**  
**Response Strategy 2-Pagers**

# RESPONSE STRATEGIES LIST

M-292.6L	M-292.6R	M-292.63R	M-293.7R	M-298.7L
	M-299.4L	M-299.5M	M-299.8L	M-299.9R
M-300.0L	M-300.3L	M-300.9L	M-301.1L	M-301.5L
M-301.6L	M-302.3R	M-305.9L	M-308.8R	M-309.8R
M-310.3R	M-311.4R	M-311.9R	M-312.0L	M-314.5L
M-314.7L	M-317.0L	M-317.5R	M-317.8M	M-318.3R
M-319.2M	M-320.6L	M-320.7L	M-321.9L	M-322.6M
M-323.1M	M-324.1M	M-323.2R	M-323.4M	M-323.5M
M-323.9M	M-325.5R	M-324.37M	M-324.44M	M-324.6M
M-324.8R	M-325.9L	M-325.6L	M-325.6R	M-325.7R
M-325.89L	M-328.4L	M-326.1M	M-326.5L	M-327.1L
M-328.0L	M-332.8R	M-328.9R	M-329.0M	M-330.3R
M-331.4L	M-335.0M	M-333.3M	M-334.0R	M-334.3M
M-334.5L	M-337.8R	M-335.8R	M-336.1R	M-336.4R
M-337.3R	MSN-0.8M	M-338.2L	M-340.3R	M-340.7L
M-342.8R	MSN-2.1L	MSN-1.0R	MSN-1.55L	MSN-1.56R
	MSN-4.6M	MSN-2.8L	MSN-2.9R	MSN-4.0M
MSN-4.5L	MSN-6.1L	MSN-8.4L	MSN-8.4M	MSN-9.5R
WWR-4.0R		YAK-0.5R	YAK-2.1L	YAK-4.2L

# McNary Southshore Boat Launch

M-292.6L

**Position - Location:** 45° 55.613', -119° 17.587' 45° 55' 36.8", -119° 17' 35.2" 45.92688, -119.29311 Umatilla

**Strategy Objective:** Collection : Collect oil upstream of the dam and prevent oil from entering the fish ladder.

**Implementation:** Use 1000' of boom to divert oil from the E fish ladder and collect it on the L shore at the Western most corner of the Boat Launch (keep boat launches open).

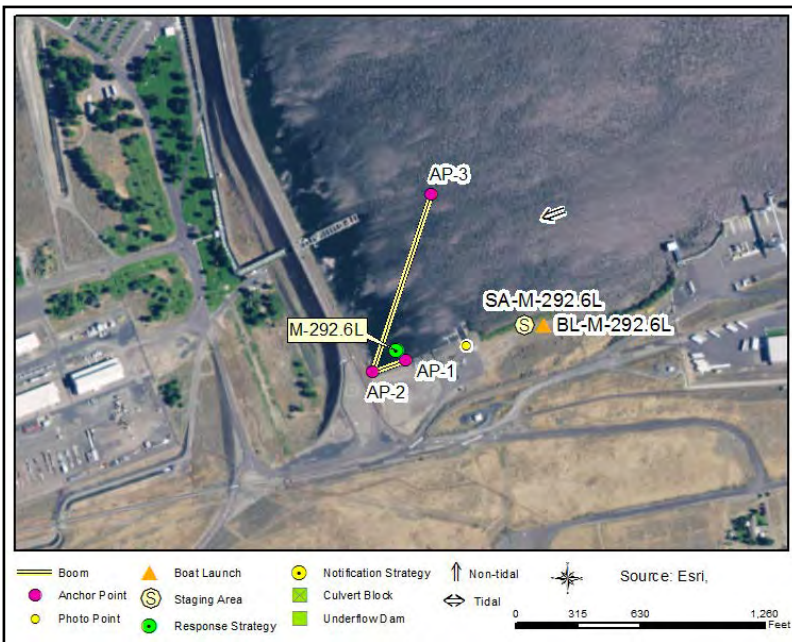
**Staging Area:** Onsite : BL-M-292.6L/S McNary Dam Lots of parking and several launch ramps on site

**Site Safety:** Slips, Trips Falls, McNary Dam, Water Hazards

**Field Notes:** Launch boat from McNary Dam Southshore boat launch, BL-M-292.6L

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Lock and Dam



## 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



M-292.6L Photo: Looking west towards collection area from boat ramp.



### Site Contact

#### USACE McNary pool

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

### Nearest Address

100 Launch Lane  
Umatilla, OR 97882

### Driving Directions

Directions to M/292.6L/McNary Lock & Dam boat launch 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. Turn left (20 ft)
7. Turn right (312 ft), destination will be on the left

# McNary Lock

M-292.6R

**Position - Location:** 45° 56.441', -119° 17.909' 45° 56' 26.4", -119° 17' 54.5" 45.94068, -119.29849 Kennewick

**Strategy Objective:** Exclusion : Prevent oil from entering the lock system.

**Implementation:** Angle boom from NW lock wall to SE lock wall.

**Staging Area:** Onsite : Stage at SA-M-292.6R/N. Contractors must call McNary Dam control at 541-922-2231 to access site.

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

**Field Notes:** Launch boat from McNary Dam boat launch, BL-M-292.6R

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Lock and Dam



### Recommended Equipment

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



M-292.6R Photo: Aerial overview of McNary Lock system



### Site Contact

#### USACE McNary Control Room

Land/Property Contact :

WA  
541-922-2231

### Nearest Address

81222 McNary Road  
Kennewick, WA 99338

### Driving Directions

1. Starting at I-82 take Exit 131
2. Head north on Exit 131 toward WA-14 W (0.2 mi)
3. Turn right on McNary Rd (1.0 mi)
4. Keep right on McNary Rd, your destination will be on the left (0.7 mi)
5. Finish at 81226 Mc Nary Rd, 99338, on the right



# McNary Dam Boat Launch

M-292.63R

**Position - Location:** 45° 56.625', -119° 17.892'      45° 56' 37.5", -119° 17' 53.5"      45.94375, -119.29821      Kennewick

**Strategy Objective:** Collection : Collect oil at boat launch area on Washington side of river.

**Implementation:** Use 1200' of boom. Angle one 400' section towards the shoreline from the collection point, and one 800' section towards the locks. Keep launch open unless oil is entering along the shoreline. Adjust angle of boom, placement & number of anchors according to conditions of the day.

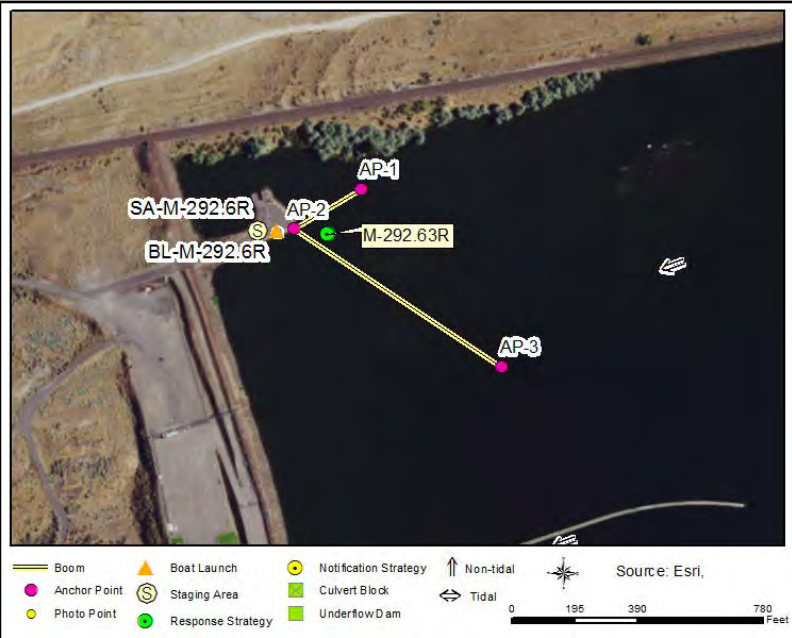
**Staging Area:** Onsite : SA-M-292.6R/N McNary Dam boat launch and parking on site

**Site Safety:** Boat & Vehicle Traffic, Slips, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction.

**Field Notes:** Launch boat from McNary Dam boat launch, BL-M-292.6R

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Osprey, Raptors, Waterfowl Concentrations



## Recommended Equipment

4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
1200	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
5	Laborer
1	Supervisor



M-292.63R Photo: View of boat launch and collection area.



## Site Contact

### USACE McNary Control Room

Land/Property Contact :  
541-922-2231

## Nearest Address

81226 Mc Nary Rd  
Kennewick, WA 99338

## Driving Directions

Directions to McNary boat launch from S bound I-82

1. Starting at I-82 take Exit 131
2. Head north on Exit 131 toward WA-14 W (0.2 mi)
3. Turn right on McNary Rd (1.0 mi)
4. Keep right on McNary Rd, your destination will be on the left (0.7 mi)
5. Finish at 81226 Mc Nary Rd, 99338, on the right

# AgriNorthwest Pump Station

M-293.7R

**Position - Location:** 45° 56.805', -119° 16.585'      45° 56' 48.3", -119° 16' 35.1"      45.94674, -119.27641      Kennewick

**Strategy Objective:** Deflection : Use 1000' of boom to deflect oil that is moving downriver away from the water intake.

**Implementation:** Anchor boom at shore east of the pump station. Tow boom downstream to a point SW of the water intake. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Remote : SA-M-292.6R/N McNary Dam boat launch

**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 McNary Dam boat launch, BL-M-292.6R

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Osprey, Raptors, Waterfowl Concentrations



### Recommended Equipment

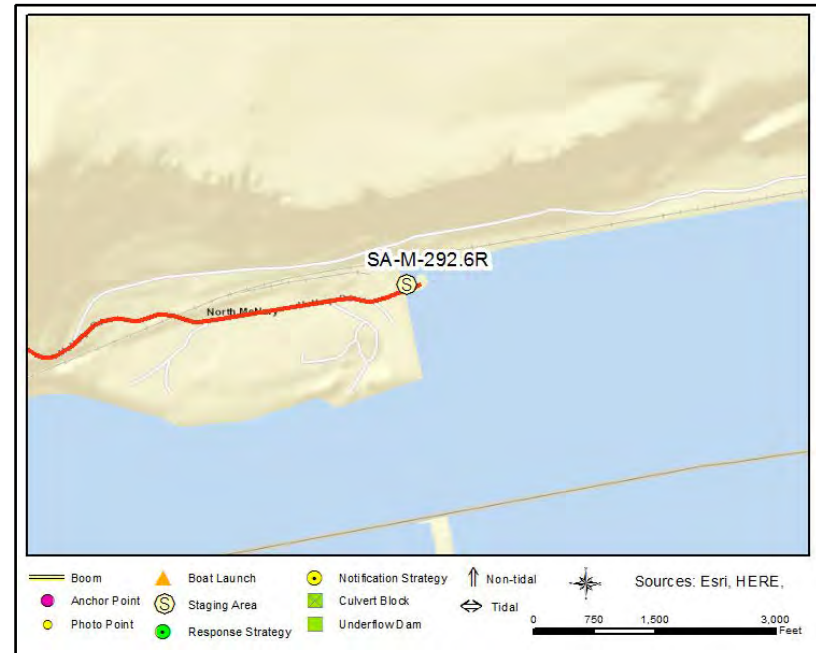
4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
1000	Each	Boom - B2 (Contractor Boom) or equivalent

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-293.7R Photo: M-293.7R Shoreside photo showing anchoring anchor permanently in place



## Site Contact

### AgriNorthwest

Land/Property Contact :  
509-734-5252

### USACE McNary Control Room

Secondary Contact :  
541-922-2231

## Nearest Address

81226 Mc Nary Rd  
Kennewick, WA 99338

## Driving Directions

Directions to McNary boat launch from S bound I-82

1. Starting at I-82 take Exit 131
2. Head north on Exit 131 toward WA-14 W (0.2 mi)
3. Turn right on McNary Rd (1.0 mi)
4. Keep right on McNary Rd, your destination will be on the left (0.7 mi)
5. Finish at 81226 Mc Nary Rd, 99338, on the right

# Hat Rock State Park

M-298.7L

**Position - Location:** 45° 55.275', -119° 10.360'      45° 55' 16.5", -119° 10' 21.6"      45.92125, -119.17266      Hermiston

**Strategy Objective:** Exclusion : Keep oil out of inlet and boat ramp near Hat Rock State Park.

**Implementation:** Deploy 2 - 700' legs of boom in cascading strategy. This will prevent oil from entering while allowing area to be used as a staging area. In the event product enters the exclusion area connect the two sections of boom to fully exclude. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage at SA-M-298.7L/Hat Rock

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

**Field Notes:** Launch at BL-M-298.7L/Hat Rock

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

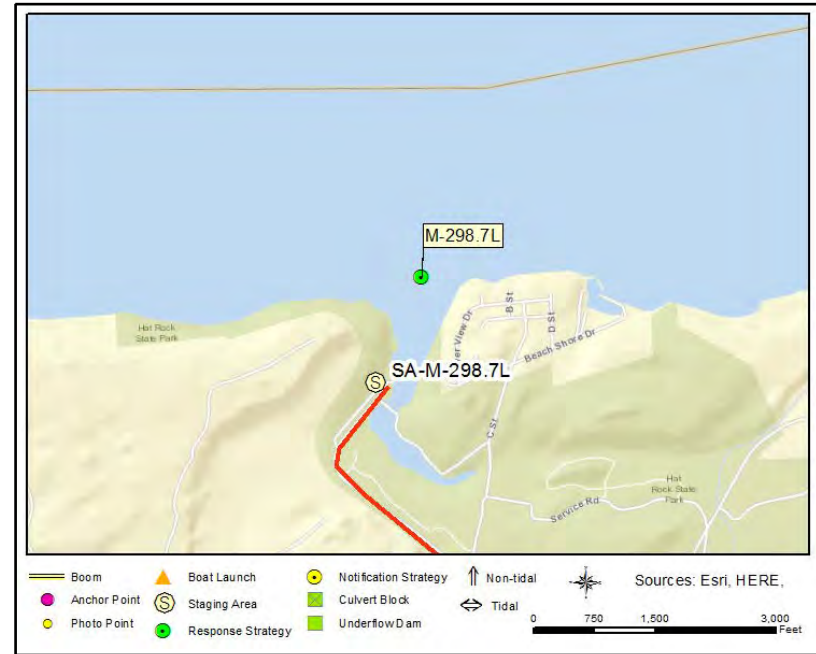
6 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1400 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-298.7L Photo: View of the channel heading into Hat Rock State Park from the boat launch



**Site Contact**

**Hat Rock State Park**  
 Land/Property Contact :  
  
 OR  
 541-983-2277

**Nearest Address**

82200 Hat Rock Road  
 Hermiston, OR 97838

**Driving Directions**

1. From Pasco take US-395 S
2. Take the exit onto US-12 E toward Walla Walla (16.8 mi)
3. Slight right toward US-730 W (0.2 mi) watch for signs for US 730 W/ Pendleton
4. Slight right onto US-730 W Entering Oregon (17.1 mi)
5. Turn right onto Hat Rock Rd and continue to the end (1 mi)

# McNary Yacht Club

M-299.2L

**Position - Location:** 45° 55.234', -119° 9.816'      45° 55' 14.1", -119° 9' 49.0"      45.92057, -119.16360      Hermiston

**Strategy Objective:** Exclusion : Keep oil out of McNary Yacht Club while keeping the boat launch open

**Implementation:** Do not deploy! The Northwest Area Committee recommends that this response strategy be removed from the GRP. / Anchor 100' of boom to the S jetty at anchor point A and tow toward the N, anchoring it offshore of the N jetty, allow room for vessels to pass through the harbor entrance. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day. Carry an extra shoreside anchoring system in case the harbor needs to be closed off.

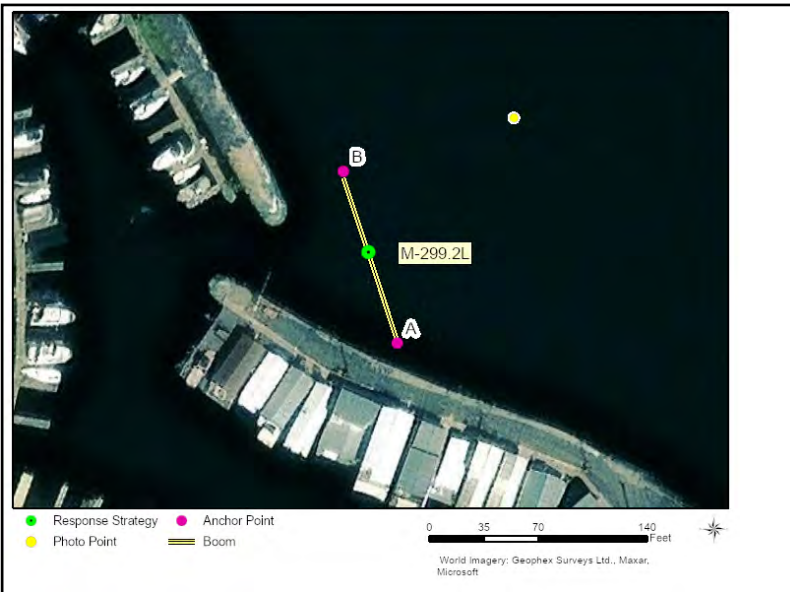
**Staging Area:** Onsite: McNary Yacht Club, SA-M-299.1L

**Site Safety:** Slips, Trips, Falls, Water Hazards, Large underwater rock on approach.

**Field Notes:** Launch boat from McNary Yacht Club, BL-M-299.1L

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Marina, Recreational Use Area, Shorebirds, Waterfowl



## 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



M-299.2L Photo: Entrance to McNary Yacht Club from the water



### Site Contact

#### McNary Yacht Club

Land/Property Contact : Lease property for club from USACE  
541-567-5603

#### USACE McNary pool

Land/Property Owner : Natural Resource Manager  
541-922-2268

### Nearest Address

33900 Beach Shore Drive  
Hermiston, OR 97838

### Driving Directions

#### DIRECTIONS TO STAGING AREA/BOAT LAUNCH

1. Start at I-82, Umatilla, OR 97882
2. Get off on Exit 1 going east on US-730/6th St (7.9 mi)
3. Make sharp left on Hat Rock State Park Rd (0.7 mi)
4. Turn right on C Street
4. Bear right on Beach Shore Dr (0.2 mi)
5. Continue straight to finish at the McNary Yacht Club 34099 Beach Shore Drive, 97838 on your left



# Channel Upriver of McNary Yacht Club

M-299.4L

**Position - Location:** 45° 55.277', -119° 9.826'      45° 55' 16.6", -119° 9' 49.5"      45.92129, -119.16376      Hermiston

**Strategy Objective:** Collection : Keep oil out of channel upriver of marina.

**Implementation:** Using workboat, anchor 1300ft boom at anchor point A at western tip of island upriver of marina and then tow west to the jetty and anchor at point B. Extend the remainder upstream to the northeast, to create a collection pocket and anchor at point C. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day. Stage skimmer and portable storage at collection point on jetty.

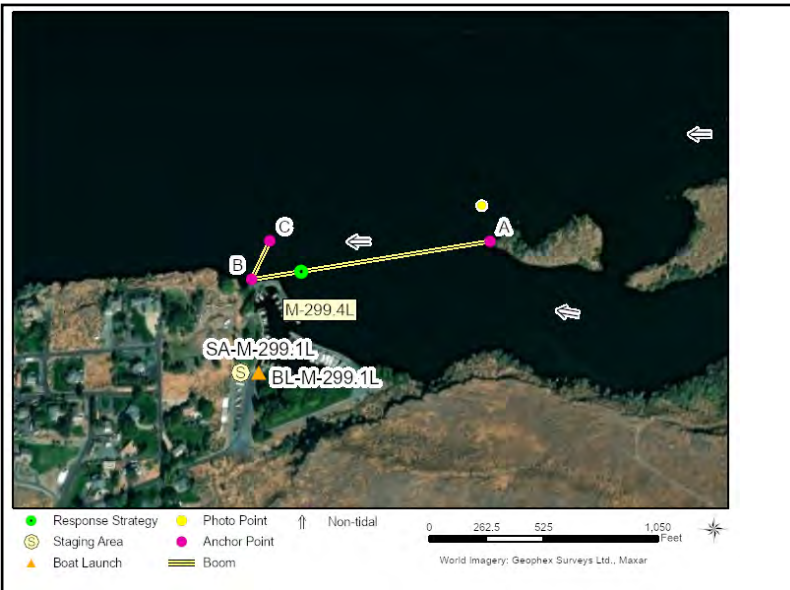
**Staging Area:** Onsite: Stage at McNary Yacht Club/SA-M-299.1L

**Site Safety:** Slips, trips & fall, submerged rocks in channel

**Field Notes:** Launch at McNary Yacht Club/BL-M-299.1L

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Recreational Use Area, Shorebirds, Waterfowl



## Recommended Equipment

8 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1300 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



M-299.4L Photo: View of M-299.4L deployed at McNary Yacht Club - photo taken by C. Keeney via drone



### Site Contact

#### McNary Yacht Club

Land/Property Contact : Lease property for club from USACE  
541-567-5603

#### USACE McNary pool

Land/Property Owner : Natural Resource Manager  
541-922-2268

### Nearest Address

34099 Beach Shore Dr  
Hermiston, OR 97838

### Driving Directions

#### DIRECTIONS TO STAGING AREA/BOAT LAUNCH

1. Start at I-82, Umatilla, OR 97882
2. Get off on Exit 1 going east on US-730/6th St (7.9 mi)
3. Make sharp left on Hat Rock State Park Rd (0.7 mi)
4. Turn right on C Street
4. Bear right on Beach Shore Dr (0.2 mi)
5. Continue straight to finish at the McNary Yacht Club 34099 Beach Shore Drive, 97838 on your left

# Islands E of Hat Rock State Park

M-299.5M

**Position - Location:** 45° 55.359', -119° 9.436'      45° 55' 21.5", -119° 9' 26.2"      45.92265, -119.15727      Hermiston

**Strategy Objective:** Exclusion : Prevent oil from entering shallow water habitat on Oregon side of river.

**Implementation:** Use 600' of exclusion boom in between islands. Use large trees or rocks on shoreline to secure boom. Attach anchor point A near 45.922, -119.157, tow boom to the west and attach anchor point C on shore of next island downstream, then pull out middle of boom to create the chevron using anchor B. Adjust quantity and placement of anchors based on conditions of the day.

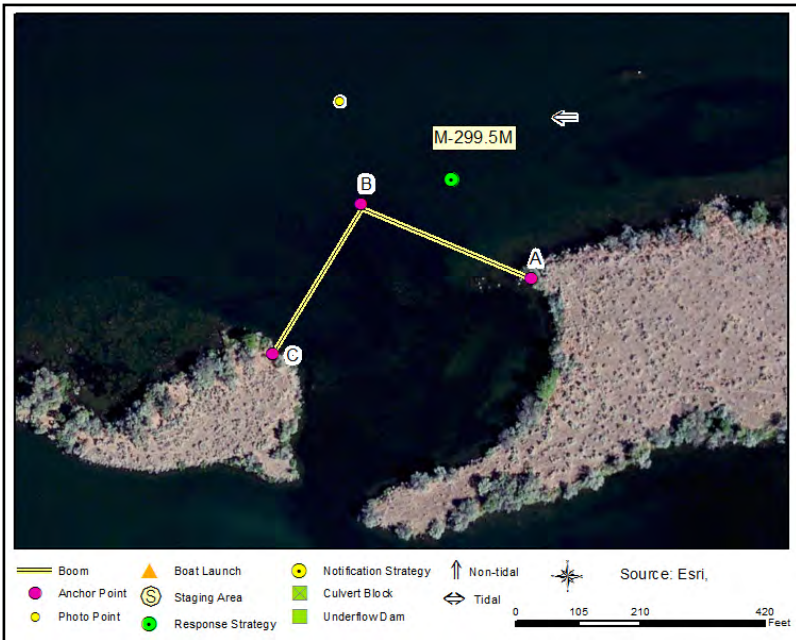
**Staging Area:** Remote : Hat Rock, SA-M-298.7L

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

**Field Notes:** Launch boat from Hat Rock State Park, BL-M-298.7L

**Watercourse:** River - Above a Dam - McNary Pool

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



## Recommended Equipment

3	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

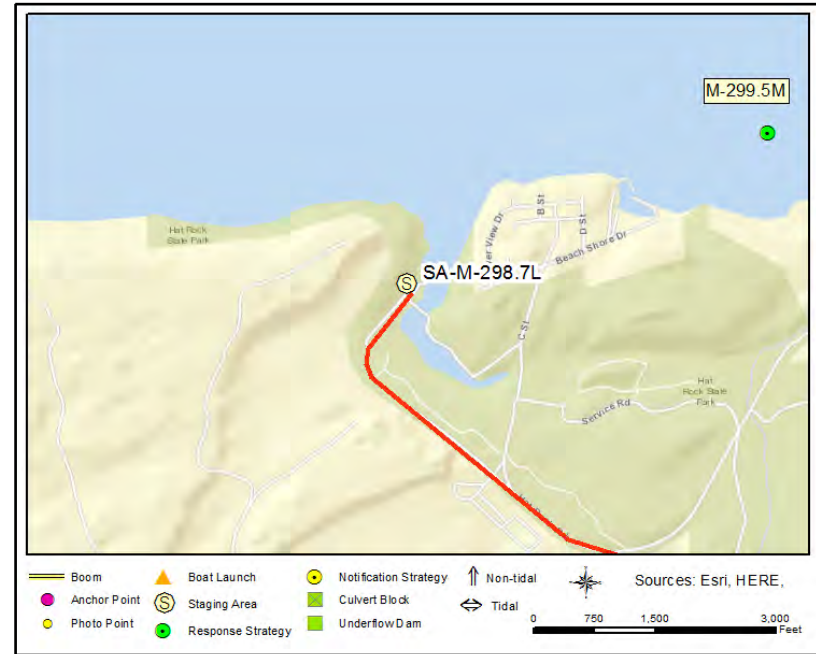
1	Boat Operator
3	Laborer
1	Supervisor

# Islands E of Hat Rock State Park

M-299.5M



M-299.5M Photo: M-299.5M deployed on 9/27/17 photo taken via drone by C. Keeney



### Site Contact

#### Hat Rock State Park

Primary Contact :

OR  
541-983-2277

### Nearest Address

82200 Hat Rock Road  
Hermiston, OR 97838

### Driving Directions

#### DIRECTIONS TO STAGING AREA/BOAT LAUNCH (SA-M298.7L & BL-M-298.7L)

1. From Pasco, Head east on Hwy 12 (US-12 E) towards Oregon
2. After 16.2mi, in Wallula Junction, stay to the right to continue on Hwy 730
3. After 5.8mi, stay on Hwy 730 as you cross into Oregon
4. After 11.1mi, turn right onto Hat Rock Road
5. After 0.7mi, continue straight to stay on Hat Rock State Park Road.
6. After 0.5mi, parking area and boat launch are at end of road. Stage equipment in parking area near boat ramp.t

# Third Island E of Hat Rock State Park

M-299.8L

**Position - Location:** 45° 55.354', -119° 9.142'      45° 55' 21.3", -119° 9' 8.5"      45.92257, -119.15237      Hermiston

**Strategy Objective:** Exclusion : Keep oil out from inside of small island on river left

**Implementation:** Using workboat, secure 600ft boom to river left at/near Point A (45.922, -119.15). Extend boom out into the river and downstream to the NW, secure it to the east side of the island at/near Point B (45.923, -119.152). Secure an additional 200ft boom to the W end of same island at/near Point C (45.923, -119.153), then extend it WSW to anchor at/near Point D. Use shoreside anchoring systems or existing features to secure boom to banks. Use in-water anchoring systems as needed to keep boom secure in river. Adjust boom as needed based on stream flow and environmental conditions.

**Staging Area:** Remote : Stage and launch workboat from Hat Rock State Park (SA-M-298.7L & BL-M-298.7L)

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

**Field Notes:** Notify Hat Rock State Park before staging equipment and for access assistance; call 541-910-6285 or 541-983-2277.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

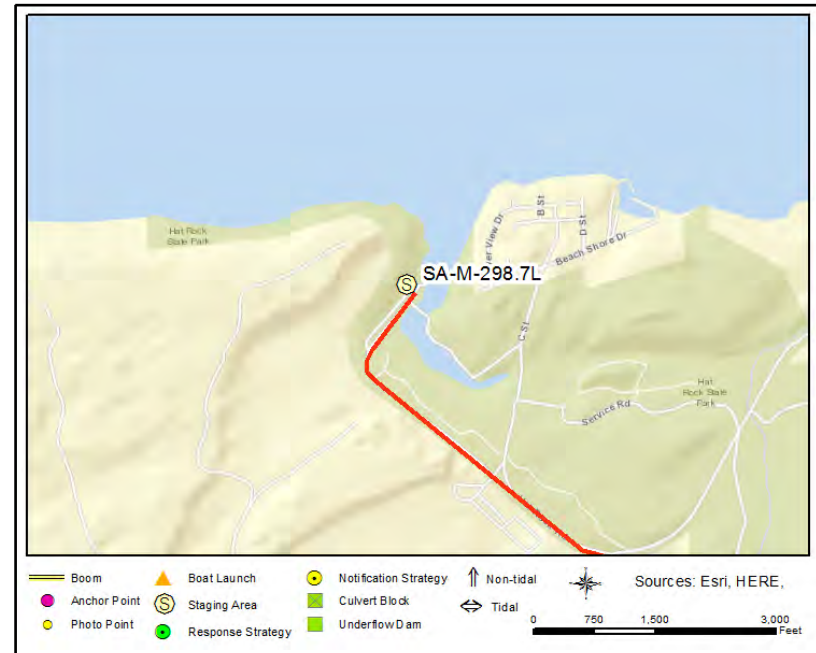
6 Each	Anchoring System(s) - (anchor, lines, floats)
4 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Waders
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-299.8L Photo: Photo of the shoreline.



**Site Contact**

**Hat Rock State Park**

Primary Contact :

OR

541-983-2277

**Nearest Address**

82200 Hat Rock Road  
Hermiston, OR 97838

**Driving Directions**

**DIRECTIONS TO STAGING AREA/BOAT LAUNCH (SA-M298.7L & BL-M-298.7L)**

1. From Pasco, Head east on Hwy 12 (US-12 E) towards Oregon
2. After 16.2mi, in Wallula Junction, stay to the right to continue on Hwy 730
3. After 5.8mi, stay on Hwy 730 as you cross into Oregon
4. After 11.1mi, turn right onto Hat Rock Road
5. After 0.7mi, continue straight to stay on Hat Rock State Park Road.
6. After 0.5mi, parking area and boat launch are at end of road. Stage equipment in parking area near boat ramp.

# Easterday Farms

M-299.9R

**Position - Location:** 45° 56.186', -119° 8.998'      45° 56' 11.1", -119° 8' 59.9"      45.93643, -119.14997      Hermiston

**Strategy Objective:** Deflection : Deflect oil that is moving downstream away from the water intake.

**Implementation:** Use 800' of boom anchored to shore upstream of the water intake at anchor point A (45.937, -119.15). Tow boom to a location S of the intake and anchor at point B (near 45.94, -119.152). Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Remote : SA-M-298.7L Hat Rock State Park, site is on remote BNSF land

**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 Hat Rock State Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Water Intakes



### Recommended Equipment

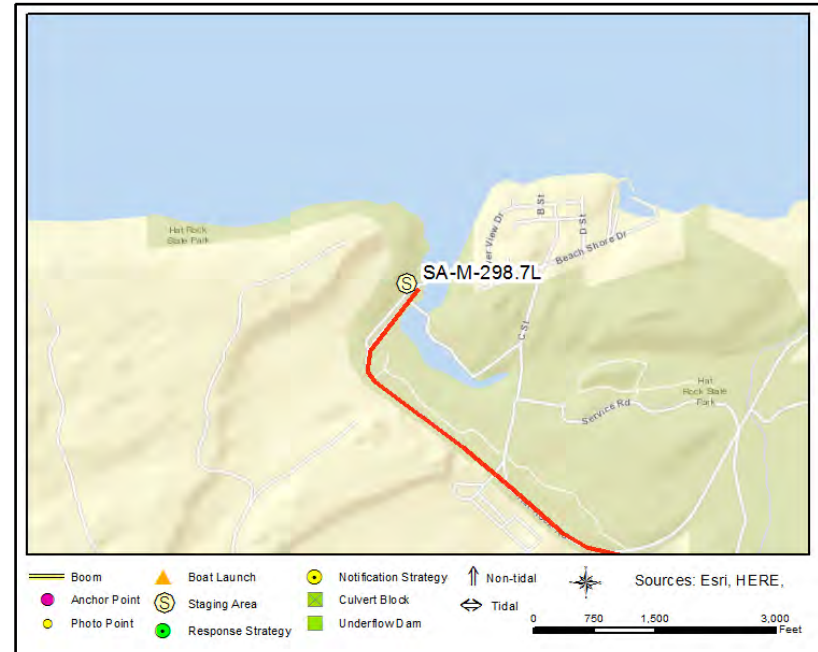
3	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
800	Feet	Boom - B2 (Contractor Boom) or equivalent
2	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom
1	Each	Workboat(s) - shallow-water

### Recommended Personnel

2	Boat Operator
3	Laborer
1	Supervisor



M-299.9R Photo: View of strategy deployed 9.27.17 during a drill.



**Site Contact**

**BNSF Railroad**

Security Contact : Service Interruption Desk  
817-352-2832

**Easterday Farms**

Land/Property Contact :  
509-547-9600

**Nearest Address**

82200 Hat Rock Rd  
Hermiston, OR 97838

**Driving Directions**

Directions from Pasco to Hat Rock State Park boat launch.

1. From Pasco take US-395 S
2. Take the exit onto US-12 E toward Walla Walla (16.8 mi)
3. Slight right toward US-730 W (0.2 mi) watch for signs for US 730 W/Pendleton
4. Slight right onto US-730 W Entering Oregon (17.1 mi)
5. Turn right onto Hat Rock Rd and continue to the end (1 mi)



# Warehouse Beach West

M-300.0L

**Position - Location:** 45° 55.209', -119° 8.635'      45° 55' 12.5", -119° 8' 38.1"      45.92015, -119.14391      Hermiston

**Strategy Objective:** Deflection : Prevent oil from entering shallow water habitat, keep boat launch open

**Implementation:** Use 800 feet of boom to deflect oil away from sensitive areas. Adjust quantity and placement of anchors based on conditions of the day.

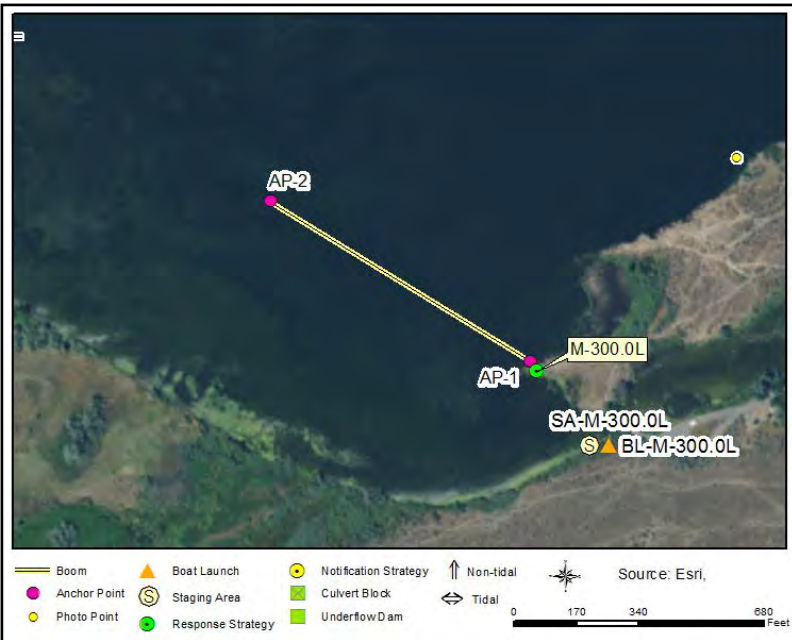
**Staging Area:** Onsite : SA-M-300L Warehouse Beach Recreation Area

**Site Safety:** Slips, Trips, Falls, Water hazard, shallow water with underwater boulders.

**Field Notes:** Launch boat from Warehouse Recreational Area, BL-M-300L

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

2	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



M-300.0L Photo: M-300.1L Deflection



**Site Contact**

**Sand Station Recreation Area**

Land/Property Contact :

OR  
541-922-2268

**Nearest Address**

Landing Road  
Hermiston, OR 97838

**Driving Directions**

Directions from Umatilla to Warehouse Rec Area boat launch.

1. Starting at I-82 in Umatilla, OR
2. Turn left onto US-395 S/US-730 E/6th St (signs for Mc Nary Dam/Hermiston)  
Continue to follow US-730 E (9.2 mi)
3. Slight right onto OR-37 S (0.2 mi)
4. Turn left onto Landing Rd, Warehouse Beach Recreation Area will be on the right (0.6 mi)

# Warehouse Beach East

M-300.3L

**Position - Location:** 45° 55.310', -119° 8.106'      45° 55' 18.6", -119° 8' 6.4"      45.92183, -119.13511      Hermiston

**Strategy Objective:** Exclusion : Prevent oil from entering shallow water habitat and recreation area on Oregon side of the river.

**Implementation:** 1000' of boom to protect area behind Small Island. Area is very shallow and has many underwater rocks. Recommend skiff to assist larger workboat to secure boom. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Warehouse Beach Recreation Area

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

**Field Notes:** Launch boat from Warehouse Recreational Area, BL-M-300L

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

3	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
1	Each	Workboat(s) - (jon boat)

### Recommended Personnel

2	Boat Operator
4	Laborer
1	Supervisor

# Warehouse Beach East

M-300.3L



M-300.3L Photo: M-300.3L Exclusion strategy between small island and shore



## Site Contact

### Sand Station Recreation Area

Land/Property Contact :

OR  
541-922-2268

## Nearest Address

100 Landing Road  
Hermiston, OR 97838

## Driving Directions

Directions from Umatilla to Warehouse Rec Area boat launch.

1. Starting at I-82 in Umatilla, OR
2. Turn left onto US-395 S/US-730 E/6th St (signs for Mc Nary Dam/Hermiston)  
Continue to follow US-730 E (9.2 mi)
3. Slight right onto OR-37 S (0.2 mi)
4. Turn left onto Landing Rd, Warehouse Beach Recreation Area will be on the right (0.6 mi)

# Peninsula east of Warehouse Beach

M-300.9L

**Position - Location:** 45° 55.371', -119° 7.791'      45° 55' 22.3", -119° 7' 47.5"      45.92285, -119.12986      Hermiston

**Strategy Objective:** Deflection : Prevent oil from entering shallow water habitat on Oregon side of river.

**Implementation:** Deploy 500' of boom to deflect oil away from shallow water habitat. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Sand Station Rec Area - bathroom, beach, lots of parking

**Site Safety:** Slips, Trips, Falls, Water hazard, Shallow water, steep bank, stumps

**Field Notes:** Launch boat from Warehouse Recreational Area, BL-M-300L

**Watercourse:** River - Above a Dam - McNary Pool

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



## Recommended Equipment

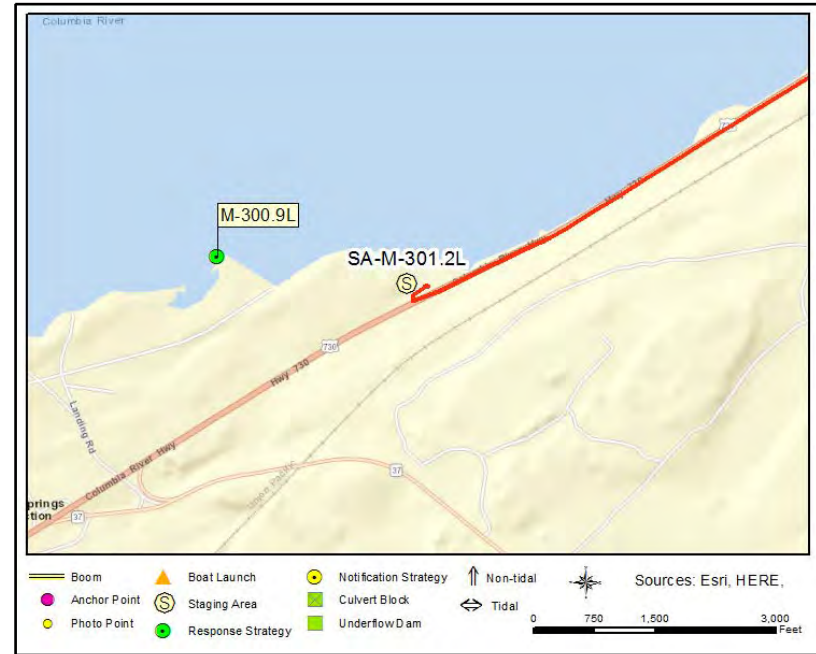
2	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
500	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-300.9L Photo: M-300.9L looking toward headland



**Site Contact**

**Sand Station Recreation Area**

Land/Property Contact :

OR  
541-922-2268

**Nearest Address**

Landing Road  
Hermiston, OR 97838

**Driving Directions**

Directions from Pasco to Sand Station Rec Area

1. From Pasco take US-395 S
2. Turn right to merge onto I-182 E/ US12 E toward Walla Walla (1.4 mi)
3. Continue onto US-12 E (17.0 mi)
4. Slight right toward US-730 W (0.2 mi)
5. Slight right onto US-730 W Entering Oregon, Sand Station Recreation Area will be on the right (14.8 mi)

# Sand Station Recreation Area- West

M-301.1L

**Position - Location:** 45° 55.370', -119° 7.240'      45° 55' 22.2", -119° 7' 14.4"      45.92284, -119.12066      Hermiston

**Strategy Objective:** Deflection : Prevent oil from entering shallow water habitat on Oregon side of river.

**Implementation:** Use 2 500' lengths of boom to deflect oil into the main channel. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Located at Sand Station Recreation Area - Can stage some equipment in the parking area.

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

**Field Notes:** Launch boat from Hat Rock State Park, BL-M-298.7L

**Watercourse:** River - Above a Dam - McNary Pool

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



### 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

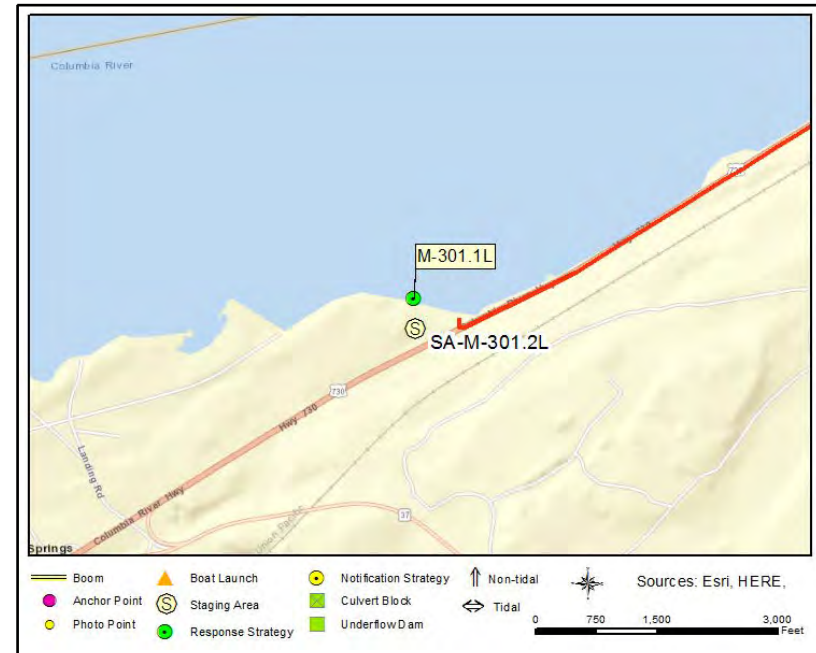
1	Boat Operator
4	Laborer
1	Supervisor

## Sand Station Recreation Area- West

M-301.1L



M-301.1L Photo: M-301.1L Sand Station Recreation Area



### Site Contact

#### Sand Station Recreation Area

Land/Property Contact :

OR  
541-922-2268

### Nearest Address

Landing Road  
Hermiston, OR 97838

### Driving Directions

1. From Pasco take US-395 S
2. Turn right to merge onto I-182 E/ US12 E toward Walla Walla (1.4 mi)
3. Continue onto US-12 E (17.0 mi)
4. Slight right toward US-730 W (0.2 mi)
5. Slight right onto US-730 W Entering Oregon, Sand Station Recreation Area will be on the right (14.8 mi)



# Sand Station Recreation Area-East (deflection)

M-301.5L

**Position - Location:** 45° 55.415', -119° 6.863'      45° 55' 24.9", -119° 6' 51.8"      45.92358, -119.11438      Hermiston

**Strategy Objective:** Deflection : Prevent oil from entering shallow water habitat on Oregon side of river.

**Implementation:** Use 700' of boom to deflect oil escaping collection strategy away from Sand Station and irrigation intake. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Pump station 1/4 mile east of Sand Station Rec Area - Can stage some equipment on site.

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

**Field Notes:** Launch boat from Hat Rock State Park, BL-M-298.7L

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

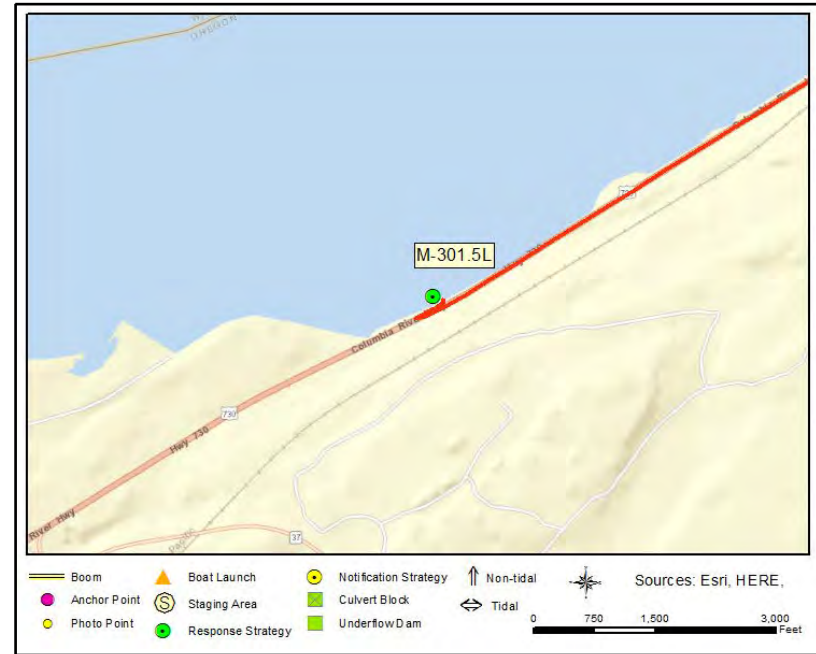
3 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
700 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-301.5L Photo: M-301.5L



**Site Contact**

**Sand Station Recreation Area**

Primary Contact :

OR  
541-922-2268

**Nearest Address**

Landing Road  
Hermiston, OR 97838

**Driving Directions**

1. From Pasco take US-395 S
2. Turn right to merge onto I-182 E/ US12 E toward Walla Walla (1.4 mi)
3. Continue onto US-12 E (17.0 mi)
4. Slight right toward US-730 W (0.2 mi)
5. Slight right onto US-730 W Entering Oregon Destination will be on the right (13.3 mi)

# Sand Station Recreation Area- East

M-301.6L

**Position - Location:** 45° 55.420', -119° 6.813'      45° 55' 25.2", -119° 6' 48.8"      45.92366, -119.11355      Hermiston

**Strategy Objective:** Collection : Collect oil moving downstream

**Implementation:** Use 500' of boom using the driveway and parking area of private irrigation intake for vacuum truck. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Pump station 1/4 mile east of Sand Station Rec Area - Can stage some equipment on site.

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

**Field Notes:** Use Hat Rock State Park for boat launch, BL-M-298.7L

**Watercourse:** River - Above a Dam - McNary Pool

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



### 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	Vac Truck or Skimmer and Storage (if collection)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

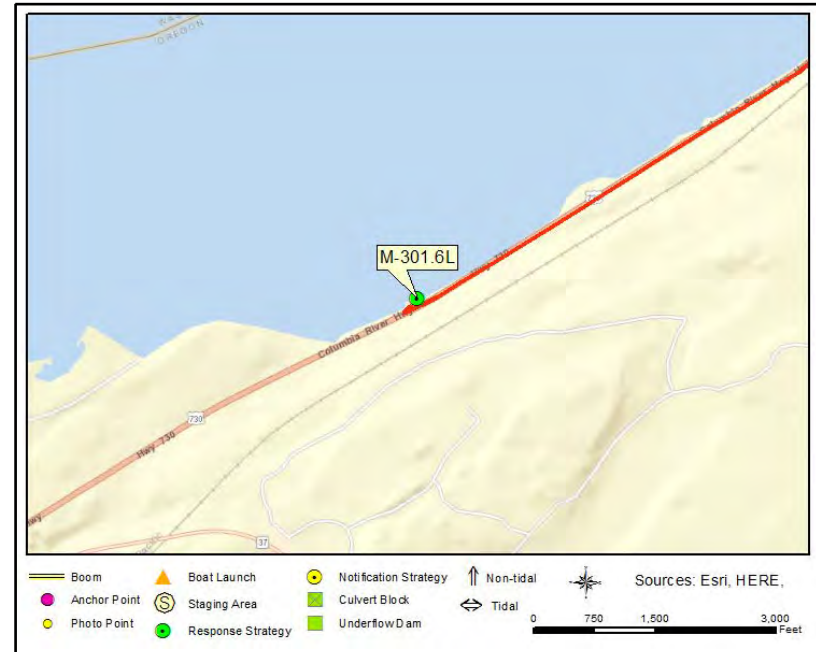
1	Boat Operator
2	Laborer
1	Supervisor

## Sand Station Recreation Area- East

M-301.6L



M-301.6L Photo: M-301.6L



### Site Contact

#### Sand Station Recreation Area

Land/Property Contact :

OR  
541-922-2268

### Nearest Address

Landing Road  
Hermiston, OR 97838

### Driving Directions

1. From Pasco take US-395 S
2. Turn right to merge onto I-182 E/ US12 E toward Walla Walla (1.4 mi)
3. Continue onto US-12 E (17.0 mi)
4. Slight right toward US-730 W (0.2 mi)
5. Slight right onto US-730 W Entering Oregon Destination will be on the right (13.3 mi)

# Creek above pump station

M-302.3R

**Position - Location:** 45° 56.711', -119° 6.535'      45° 56' 42.6", -119° 6' 32.1"      45.94518, -119.10892      Hermiston

**Strategy Objective:** Exclusion : Keep oil away from mouth of creek

**Implementation:** Deploy 200' of boom in a chevron formation, anchor boom on either side of the creek (or culvert) below the railroad bridge. Adjust angle of boom, quantity, and placement of anchors depending on conditions of the day.

**Staging Area:** Remote : Stage from SA-M-300L Warehouse Rec Area across the river

**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 Warehouse Rec Area

**Watercourse:** River - Above a Dam - McNary pool

**Resources at Risk:** Creek Estuary, Water Intakes, Waterfowl (Wintering and Production)



## 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

## Creek above pump station

M-302.3R



M-302.3R Photo: Aerial view of pump house, creek & train bridge



### Site Contact

#### BNSF Railroad

Emergency Contact : Service Interruption Desk  
817-352-2832

#### USACE McNary pool

Land/Property Contact : Natural Resource Manager  
541-922-2268

### Nearest Address

100 Landing Rd  
Hermiston, OR 97838

### Driving Directions

1. Directions to Waterhouse Recreation Area. Starting at 6th St. Umatilla, OR
2. Go east toward 3rd St (0.23 miles)
3. Turn right at 3rd St (0.08 miles)
4. Continue on I St (0.03 miles)
5. Turn left on 5th St (0.11 miles)
6. Turn right on K St (0.05 miles)
7. Turn left on US-730 (6th St) (10.13 miles)
8. Make sharp right on OR-37 (Pendleton-Cold Springs Hwy) (0.05 miles)
9. Turn left (0.13 miles)
10. Turn left on Landing Rd (0.6 miles)
11. Finish at Warehouse Recreation Area, 100 Landing Rd, 97838

# Juniper Canyon

M-305.9L

**Position - Location:** 45° 57.499', -119° 2.248'      45° 57' 30.0", -119° 2' 14.9"      45.95832, -119.03747      Hermiston

**Strategy Objective:** Exclusion : Prevent oil from entering wetlands

**Implementation:** Use 300' to create a chevron that will keep oil out of the wetland. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : SA-M-298.7L Hat Rock Park

**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:** Limited access by land from Highway 730. Launch boat from Hat Rock State Park, BL-M-298.7L

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Public Recreation Site/Area, Waterfowl Concentrations



### Recommended Equipment

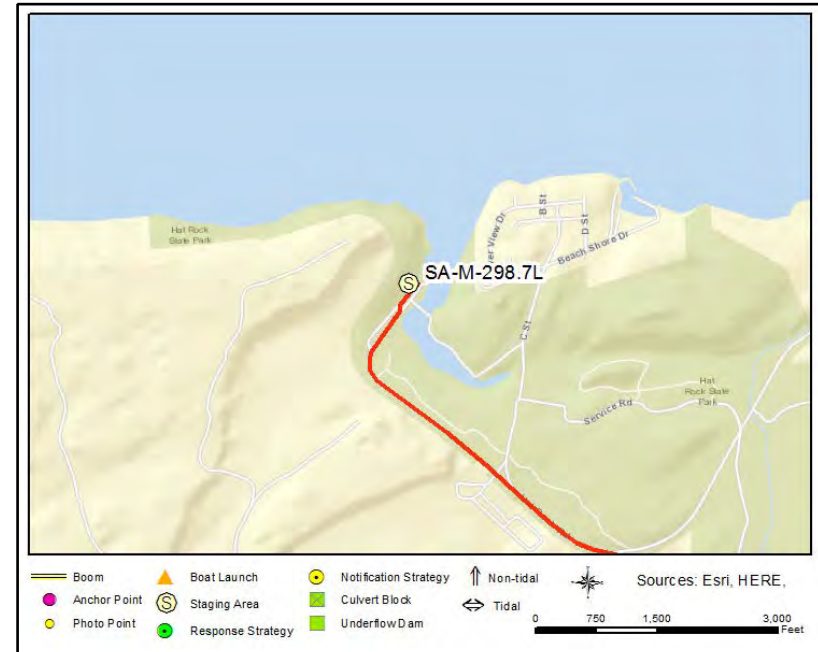
1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-305.9L Photo: Area to be boomed off.



**Site Contact**

**Nearest Address**

82200 Hat Rock Rd  
Hermiston, OR 97838

**Driving Directions**

- Directions from Pasco to Hat Rock State Park boat launch.
1. From Pasco take US-395 S
  2. Take the exit onto US-12 E toward Walla Walla (16.8 mi)
  3. Slight right toward US-730 W (0.2 mi) watch for signs for US 730 W/Pendleton
  4. Slight right onto US-730 W Entering Oregon (17.1 mi)
  5. Turn right onto Hat Rock Rd and continue to the end (1 mi)



# No Name Pond

M-308.8R

**Position - Location:** 45° 59.558', -119° .283'      45° 59' 33.5", -119° 0' 17.0"      45.99263, -119.00471      Touchet

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

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

**Staging Area:** Remote : Stage at SA-M-312.3L/Walla Walla Yacht Club

**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 Walla Walla Yacht Club

**Watercourse:** River - Above a Dam - McNary 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



M-308.8R Photo: Aerial view of No Name Pond



**Site Contact**

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE Bonneville pool**

Land/Property Contact : Natural Resources Manager  
541-374-8344

**Nearest Address**

299 Port Kelly Road  
Touchet, WA 99360

**Driving Directions**

1. Directions to SA-M-312.3L/Walla Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right

# Palmer Pond

M-309.8R

**Position - Location:** 46° .314', -118° 59.760'      46° 0' 18.9", -118° 59' 45.6"      46.00524, -118.99600      Touchet

**Strategy Objective:** Exclusion : Keep oil out of Palmer Pond

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

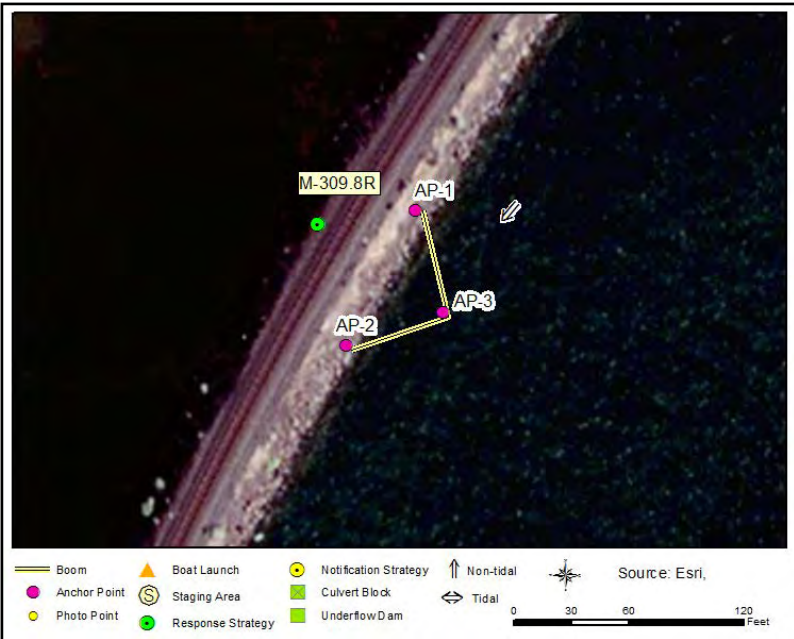
**Staging Area:** Remote : Stage at SA-M-312.3L/Walla Walla Yacht Club

**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 Walla Walla Yacht Club

**Watercourse:** River - Above a Dam - McNary Pool

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

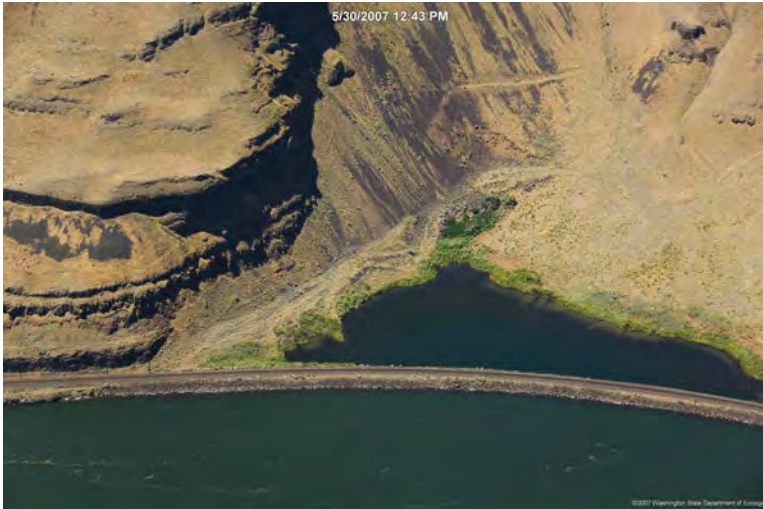


### Recommended Equipment

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



M-309.8R Photo: Aerial view of Palmer Pond



**Site Contact**

**BNSF Railroad**

Land/Property Contact : Service Interruption Desk  
817-352-2832

**USACE Bonneville pool**

Land/Property Contact : Natural Resources Manager  
541-374-8344

**Nearest Address**

299 Port Kelly Road  
Touchet, WA 99360

**Driving Directions**

1. Directions to SA-M-312.3L/Wall Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right

# Switch Pond

M-310.3R

**Position - Location:** 46° .622', -118° 59.366'      46° 0' 37.3", -118° 59' 22.0"      46.01036, -118.98944      Touchet

**Strategy Objective:** Exclusion : Keep oil out of Switch Pond

**Implementation:** Anchor 100' of boom in a chevron formation on either side of the culvert. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day. Culvert may be in a slightly different location than shown on map.

**Staging Area:** Remote : Stage at SA-M-312.3L Walla Walla Yacht Club

**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 Walla Walla Yacht Club

**Watercourse:** River - Above a Dam - McNary 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



M-310.3R Photo: Aerial view of Switch Pond



**Site Contact**

**USACE Bonneville pool**  
 Land/Property Contact : Natural Resources Manager  
 541-374-8344

**BNSF Railroad**  
 Emergency Contact : Service Interruption Desk  
 817-352-2832

**Nearest Address**

299 Port Kelly Road  
 Touchet, WA 99360

**Driving Directions**

1. Directions to SA-M-312.3L/Walla Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right

# Yellepit Pond

M-311.4R

**Position - Location:** 46° 1.324', -118° 58.370'      46° 1' 19.4", -118° 58' 22.2"      46.02206, -118.97283      Touchet

**Strategy Objective:** Exclusion : Keep oil out of Yellepit Pond

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

**Staging Area:** Remote : Stage at SA-M-312.3L Walla Walla Yacht Club

**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 Walla Walla Yacht Club

**Watercourse:** River - Above a Dam - McNary 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

# Yellepit Pond

M-311.4R



M-311.4R Photo: Aerial view of Yellepit Pond



## Site Contact

### USACE McNary pool

Land/Property Contact : Natural Resource Manager  
541-922-2268

## Nearest Address

299 Port Kelly Road  
Touchet, WA 99360

## Driving Directions

1. Directions to SA-M-312.3L/Walla Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right



# Mound Pond

M-311.9R

**Position - Location:** 46° 1.696', -118° 57.844'      46° 1' 41.7", -118° 57' 50.6"      46.02826, -118.96406      Touchet

**Strategy Objective:** Exclusion : Keep oil/out of Mound Pond

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

**Staging Area:** Remote : Stage at SA-M-312.3L Walla Walla Yacht Club

**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 Walla Walla Yacht Club

**Watercourse:** River - Above a Dam - McNary 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



M-311.9R Photo: Aerial view of Mound Pond



**Site Contact**

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**USACE McNary pool**

Land/Property Contact : Natural Resource Manager  
541-922-2268

**Nearest Address**

299 Port Kelly Road  
Touchet, WA 99360

**Driving Directions**

1. Directions to SA-M-312.3L/Wall Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right

# Port Kelley

M-312.0L

**Position - Location:** 46° 1.348', -118° 56.586'      46° 1' 20.9", -118° 56' 35.2"      46.02246, -118.94310      Touchet

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

**Implementation:** Use 1000' of boom to divert oil towards shore for collection. Gravel road can be used to stage the vac truck and collection equipment. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite: Parking lots near site.

**Site Safety:** SSLips, 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 Walla Walla yacht club, BL-M-312.3L.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Recreational Use Area, Waterfowl



## Recommended Equipment

4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
200 Feet	Boom - Sorbent
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
5	Laborer
1	Supervisor



M-312.0L Photo: Collection area at shoreline.



**Site Contact**

**USACE Port Kelly**  
Land/Property Contact :  
541-922-2268

**Nearest Address**

299 Port Kelly Road  
Touchet, WA 99360

**Driving Directions**

- Directions from Umatilla to strategy location.
1. Start at 1800 6th St, Umatilla, OR 97882
  2. Go east on US-730 (6th St) (21.65 miles)
  3. Make sharp left on Port Kelly Rd (0.26 miles)
  4. Finish at 299 Port Kelly Road, 99360, on the right

# NW Grain Growers

M-314.5L

**Position - Location:** 46° 3.650', -118° 55.260'      46° 3' 39.0", -118° 55' 15.6"      46.06083, -118.92100      Touchet

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

**Implementation:** Use 1000' of boom to divert oil towards shore for collection. Gravel road can be used to stage vac truck and collection equipment. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Parking lots at facility, need to contact NW grain growers for access.

**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 Madam Dorian, BL-WWR-4R.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Bald Eagle, Bird Habitat, Deer Habitat, General Fish and Wildlife Resources, Herons and Other Wading Birds, National 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	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
5	Laborer
1	Supervisor



M-314.5L Photo: Looking at the backside of the collection area from the South.



**Site Contact**

**Northwest Grain Growers**  
Land/Property Contact :

WA  
509-525-6510

**Nearest Address**

324 Western Farmer Road  
Touchet, WA 99360

**Driving Directions**

- Directions from Umatilla to strategy location.
1. Start at 1800 6th St, Umatilla, OR 97882
  2. Go east on US-730 (6th St) (24.86 miles)
  3. Turn left on Western Farmer Rd (0.29 miles)
  4. Finish at 324 Western Farmer Road, 99360, on the right

# Walla Walla River mouth

M-314.7L

**Position - Location:** 46° 3.994', -118° 54.970'      46° 3' 59.6", -118° 54' 58.2"      46.06657, -118.91617      Touchet

**Strategy Objective:** Exclusion : Prevent oil from travelling past the mouth of the Walla Walla River

**Implementation:** Anchor 500' of boom from the NE shore and tow it out toward the SW to deflect oil away from the mouth of the Walla Walla River but keep channel open for boat launch. Adjust angle of boom, quantity and placement of anchors depending on conditions of the day.

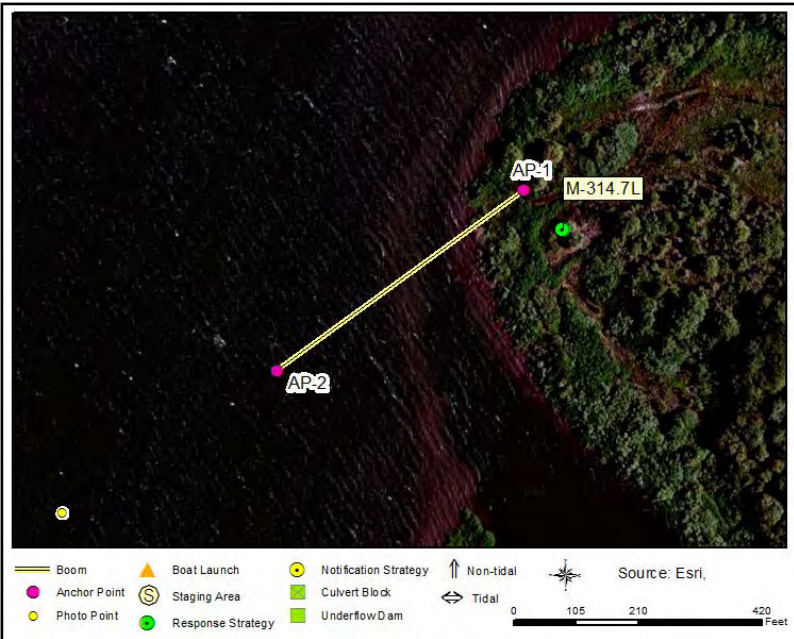
**Staging Area:** Remote : BL-WWR-4R Madam Dorian boat launch for staging

**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 Madam Dorian, BL-WWR-4R.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Bald Eagle, Deer Habitat, Herons and Other Wading Birds, Osprey, Public Recreation Site/Area, Raptors, Resident Fish, Riparian Area,



### Recommended Equipment

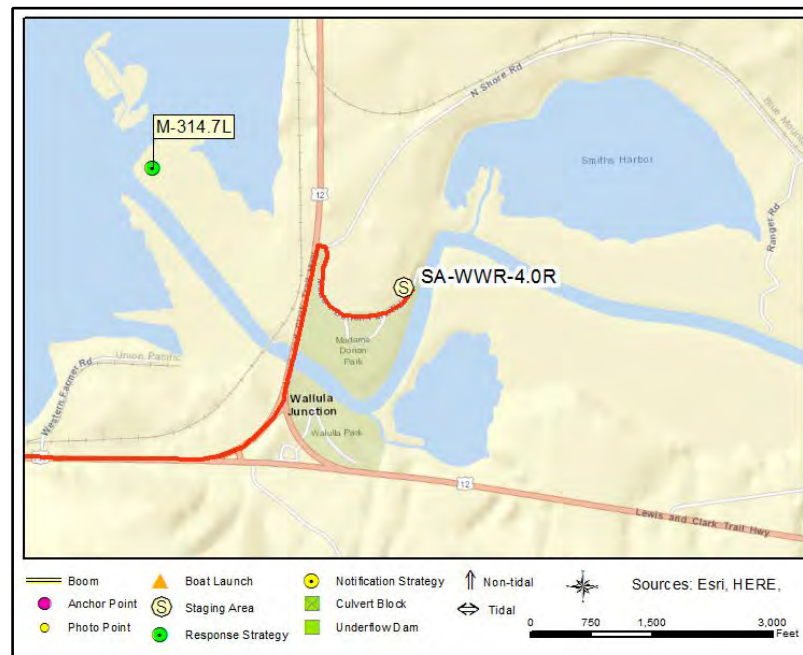
3 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-314.7L Photo: The mouth of the Walla Walla River



**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**

324 Western Farmer Road  
Touchet, WA 99360

**Driving Directions**

- Directions from Umatilla to Madame Dorian boat launch
1. Head east on US-730 E/6th St toward Eisele Dr  
Continue to follow US-730 (25.2 mi)
  2. Slight left toward US-12 W (0.2 mi)
  3. Turn left onto US-12 W (0.4 mi)
  4. Turn right onto N Shore Rd (138 ft)
  5. Take an immediate right on unnamed road for Madam Dorian boat launch on the right (0.3 mi)



# Attalia

M-317.0L

**Position - Location:** 46° 6.475', -118° 55.354'      46° 6' 28.5", -118° 55' 21.2"      46.10791, -118.92256      Wallula

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

**Implementation:** Active rail yard, contact Union Pacific to access at 800-848-8715. Anchor 1000' of boom to shore, tow boom out to the NW and anchor offshore. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Active rail yard, contact Union Pacific to access at 800-848-8715. Room for parking at end of Attalia Road

**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 upriver at BL-M-320.7L /Casey Pond

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Downstream Resources, Migratory Bird Populations, 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 (if collection)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-317.0L Photo: Aerial view of the Attalia railroad yard showing collection point.



**Site Contact**

**Union Pacific Railroad**  
 Land/Property Owner :  
  
 WA  
 888-877-7267

**Nearest Address**

Attalia Road  
 Wallula, WA 99363

**Driving Directions**

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (12.6 miles)
7. Turn right on Attalia Road (0.3 miles), slight right to remain on Attalia Road, cross railroad tracks and go to the end of the road (0.5 miles)

# Hover Park South

M-317.5R

**Position - Location:** 46° 6.144', -118° 58.039'      46° 6' 8.6", -118° 58' 2.3"      46.10240, -118.96731      Kennewick

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

**Implementation:** Use 900' of boom from spit to point on south side of inlet. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Remote : Stage onsite at the end of Cushman Rd, Kennewick WA

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

**Field Notes:** Launch boat from Casey Pond, BL-M-320.7L

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Bald Eagle, Deer Habitat, Fish and Wildlife Resources, Osprey, Public Recreation Site/Area, Resident Fish, Salmonid Concentrations and



### Recommended Equipment

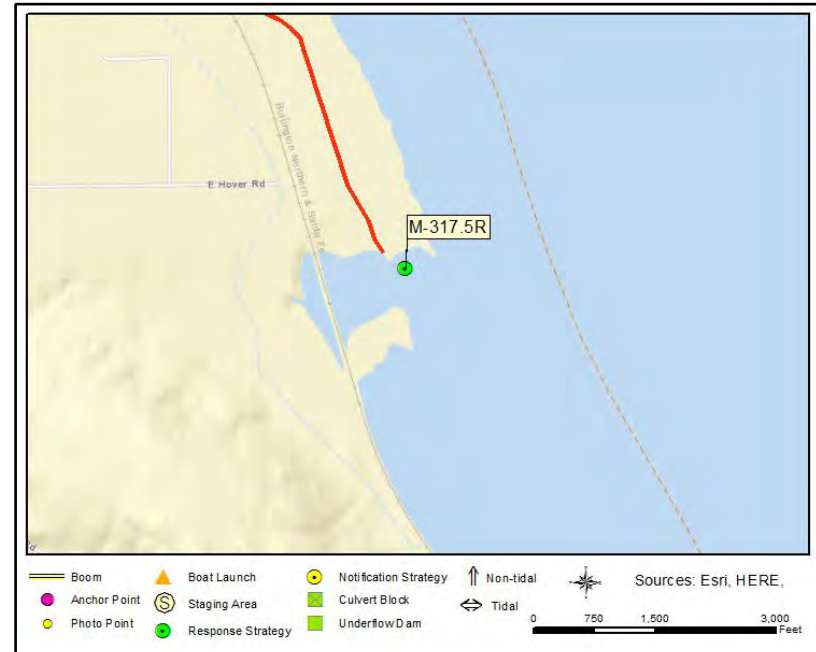
3	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
900	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-317.5R Photo: Looking at the northern anchor point from the beach.



## Site Contact

**Benton County Parks Department**  
Land/Property Contact : Manage parks  
5600A West Canal Place, A101  
Kennewick, WA 99336  
509-783-3118

## Nearest Address

## Driving Directions

Directions from Kennewick to strategy location.

1. Head southeast on Chemical Rd toward E Cochran Rd (2.3 mi)
2. Continue onto E Riek Rd (0.3 mi)
3. Turn left onto Piert Rd (0.6 mi)
4. Slight left onto Meals Rd (1.4 mi)
5. Turn left onto E Toothaker Rd (0.8 mi)
6. Continue onto Cushman Rd (0.2 mi)
7. Stay straight on gravel road to the end at south eastern tip of park (0.8 mi)

# Badger Island

M-317.8M

**Position - Location:** 46° 6.826', -118° 56.412'      46° 6' 49.6", -118° 56' 24.7"      46.11377, -118.94019      Burbank

**Strategy Objective:** Deflection : Prevent oil from hitting shoreline of island. Extremely valuable migratory bird area.

**Implementation:** Badger Island is approximately 3000' long. Place 1000' of boom in a chevron formation at the head of the island. More boom may be required based on conditions to protect the entire island. Adjust angle of boom, quantity and placement of anchors, based on conditions of the day.

**Staging Area:** Remote : Casey Pond SA-M-320.7L

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

**Field Notes:** Boat access only. Launch boat from Casey Pond, BL-M-320.7L

**Watercourse:** River - Above a Dam - McNary Pool

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



## Recommended Equipment

6	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



M-317.8M Photo: Badger Island



### Site Contact

### Nearest Address

2955 Hanson Loop Rd  
Burbank, WA 99323

### Driving Directions

Directions from Pasco to Casey Pond boat launch.

1. Start at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp left onto ramp to I-182/US-12 E
5. Continue on I-182/US-12 E (1.4 mi)
6. Continue on US-12 (8.2 mi)
7. Make sharp right on Hanson Loop Rd (0.3 mi)
8. Take the second gravel drive on the left (just before the road curves and the blue line on the attached map ends), go through the gate to the end of the gravel road (0.9 mi).

# Hover Park North

M-318.3R

**Position - Location:** 46° 7.130', -118° 58.516'      46° 7' 7.8", -118° 58' 31.0"      46.11884, -118.97527      Kennewick

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

**Implementation:** Use 1000' of boom that is anchored to the shore and towed upstream to a point NE of shore anchor. Stage vac truck on gravel roads near collection point. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Stage on rough gravel road (4-wheel drive needed) in Hover Park.

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

**Field Notes:** Launch boat from Casey Pond, BL-M-320.7L

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Bald Eagle, Deer Habitat, Osprey, Public Recreation Site/Area, Waterfowl and Shorebird Concentrations



### 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
3	Laborer
1	Supervisor



M-318.3R Photo: Collection area at shoreline.



### Site Contact

### Nearest Address

300000 Toothaker Rd  
 Kennewick, WA 99337

### Driving Directions

Directions from Kennewick to strategy location.

1. Head southeast on Chemical Rd toward E Cochran Rd (2.3 mi)
2. Continue onto E Riek Rd (0.3 mi)
3. Turn left onto Piert Rd (0.6 mi)
4. Slight left onto Meals Rd (1.4 mi)
5. Turn left onto E Toothaker Rd (0.8 mi)
6. Continue onto Cushman Rd (0.2 mi)
7. Turn left on gravel road to the end at north eastern most part of Hover Park ( 0.6 mi)



# Southern Peninsula, W of Casey Pond

M-319.2M

**Position - Location:** 46° 7.688', -118° 57.646'      46° 7' 41.3", -118° 57' 38.7"      46.12813, -118.96076      Burbank

**Strategy Objective:** Deflection : Protect marshlands, shallow water habitat inside refuge.

**Implementation:** Use 500' of boom to deflect oil. Beach landing is shallow and rocky, recommend waders. Adjust quantity and placement of anchors based on conditions of the day.

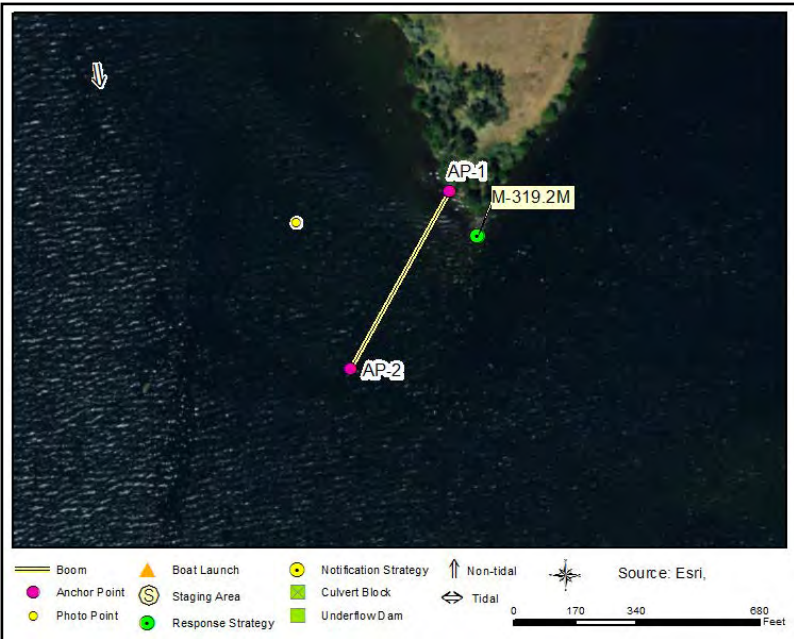
**Staging Area:** Remote : Casey Pond

**Site Safety:** Slips, Trips, Falls, Water Hazard. Shallow water with large rocks.

**Field Notes:** Boat access only. Launch boat from Casey Pond, BL-M-320.7.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

3 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



M-319.2M Photo: Southern tip of peninsula, anchor location.



**Site Contact**

**Nearest Address**

2955 Hanson Loop Rd  
Burbank, WA 99323

**Driving Directions**

- Directions from Pasco to Casey Pond boat launch.
1. Start at US-395, Pasco, WA 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp left onto ramp to I-182/US-12 E
  5. Continue on I-182/US-12 E (1.4 mi)
  6. Continue on US-12 (8.2 mi)
  7. Make sharp right on Hanson Loop Rd (0.3 mi)
  8. Take the second gravel drive on the left (just before the road curves and the blue line on the attached map ends), go through the gate to the end of the gravel road (0.9 mi).

# Casey Pond

M-320.6L

**Position - Location:** 46° 9.459', -118° 56.806'      46° 9' 27.5", -118° 56' 48.4"      46.15765, -118.94677      Burbank

**Strategy Objective:** Exclusion : Protect inner shallow waters of wildlife refuge.

**Implementation:** Using workboat, deploy 200ft boom in a chevron configuration across opening in railroad trestle. Adjust angle of boom, placement & number of anchors according to conditions of the day. Ground plate anchors or t-posts would likely work given absence of current.

**Staging Area:** Remote: Casey Pond SA-M-320.7L

**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. Little to no river current in this location. Launch from Casey Pond.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Resident Fish, Salmonids, Shorebirds, Waterfowl



## Recommended Equipment

1 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Workboat(s) - (jon boat)

## Recommended Personnel

1	Boat Operator
1	Laborer
1	Supervisor



M-320.6L Photo: Aerial view of Casey Pond and train trestle.  
Photo taken in May 2017.



**Site Contact**

**Nearest Address**

2955 Hanson Loop Rd  
Burbank, WA 99323

**Driving Directions**

- Directions from Pasco to Casey Pond boat launch.
1. Start at US-395, Pasco, WA 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp left onto ramp to I-182/US-12 E
  5. Continue on I-182/US-12 E (1.4 mi)
  6. Continue on US-12 (8.2 mi)
  7. Make sharp right on Hanson Loop Rd (0.3 mi)
  8. Take the second gravel drive on the left (just before the road curves and the blue line on the attached map ends), go through the gate to the end of the gravel road (0.9 mi).

# Casey Pond East

M-320.7L

**Position - Location:** 46° 9.850', -118° 56.895'      46° 9' 51.0", -118° 56' 53.7"      46.16417, -118.94825      Burbank

**Strategy Objective:** Exclusion : Protect inner shallow waters of wildlife refuge.

**Implementation:** Use 100' of boom to prevent oil from entering pond and backwaters at Highway 12. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Remote : Stage at Casey Pond boat launch

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

**Field Notes:** Launch boat from Casey Pond, BL-M-320.7.

**Watercourse:** Pond - Casey Pond

**Resources at Risk:** Backwater Habitat, Recreational Fishery, Salmonid Concentrations and Habitat, Sensitive Nesting Species, Warm Water Fishery and



### Recommended Equipment

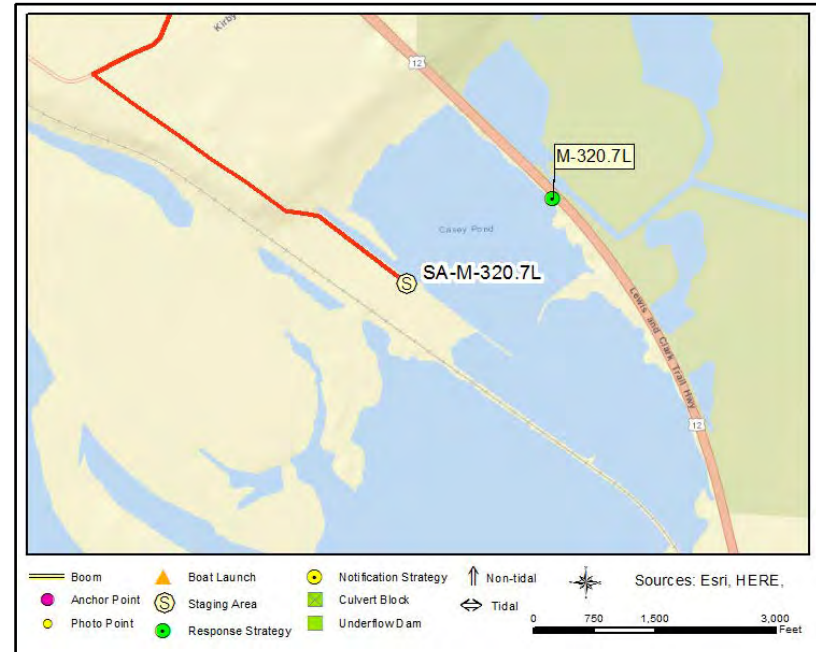
1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - (jon boat)

### Recommended Personnel

1	Boat Operator
1	Laborer
1	Supervisor



M-320.7L Photo: Highway 12 crossing Casey Pond.



**Site Contact**

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

Primary Contact : Property Contact

Burbank, WA 99323  
509-546-8300

**Nearest Address**

2955 Hanson Loop Rd  
Burbank, WA 99323

**Driving Directions**

Directions from Pasco to Casey Pond boat launch.

1. Start at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp left onto ramp to I-182/US-12 E
5. Continue on I-182/US-12 E (1.4 mi)
6. Continue on US-12 (8.2 mi)
7. Make sharp right on Hanson Loop Rd (0.3 mi)
8. Take the second gravel drive on the left (just before the road curves and the blue line on the attached map ends), go through the gate to the end of the gravel road (0.9 mi).

# Game Road

M-321.9L

**Position - Location:** 46° 10.144', -118° 58.871'      46° 10' 8.6", -118° 58' 52.2"      46.16906, -118.98118      Burbank

**Strategy Objective:** Collection : Collect oil as it moves downstream before it reaches McNary Wildlife Refuge.

**Implementation:** Use 1000' of boom to direct oil towards the shore for collection. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Gravel road near the strategy can be used for staging.

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

**Field Notes:** Can hand launch a boat on site.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Downstream Resources



### Recommended Equipment

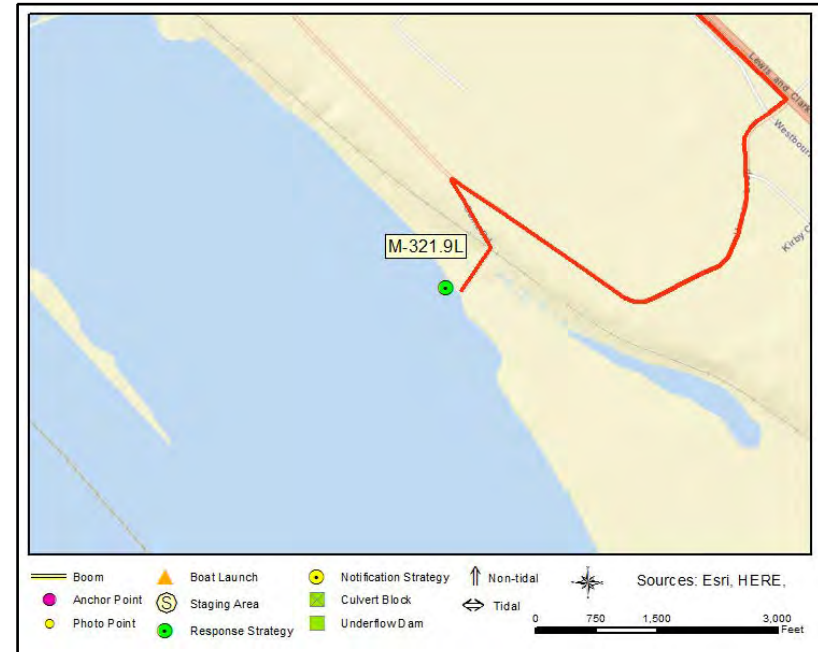
5	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of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

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-321.9L Photo: Shoreline launch & collection point.



**Site Contact**

**US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges**  
 Primary Contact : Property Contact

Burbank, WA 99323  
 509-546-8300

**Nearest Address**

Game Road  
 Burbank, WA 99323

**Driving Directions**

1. Start at US 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (7.37 miles)
7. Make sharp right on Hanson Loop Rd (Hanson Loop) (1.19 miles)
8. Turn left on Game Rd (0.16 miles)
9. Cross the tracks and go straight through the 4-way intersection to a dirt/gravel drive at waterfront.



# Foundation Island

M-322.6M

**Position - Location:** 46° 10.315', -119° .251'      46° 10' 18.9", -119° 0' 15.1"      46.17191, -119.00419      Kennewick

**Strategy Objective:** Deflection : Prevent oil from hitting shoreline of island. Extremely valuable migratory bird area.

**Implementation:** Anchor two 500' sections of boom in a cascade formation at the very northern most point possible. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day. Shallow water, bring waders.

**Staging Area:** Remote : Two Rivers Park SA-M-324.3R

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

**Field Notes:** Boat access only, shallow water around the islands. Launch boat from Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

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



## Recommended Equipment

6	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



M-322.6M Photo: Northern point of Foundation Island



**Site Contact**

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

- Directions from Pasco to Two Rivers Boat Launch.
1. Start at US-395, pasco, wa 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp right on E A St
  5. Turn left on S 10th Ave
  6. Continue on WA-397 (Ed Hendler Brg)
  7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
  8. Turn left on E Finley Rd (2.2 mi)
  9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)

# Vilard Pond

M-323.1M

**Position - Location:** 46° 10.716', -119° .110'      46° 10' 43.0", -119° 0' 6.6"      46.17860, -119.00183      Burbank

**Strategy Objective:** Exclusion : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Use 300' of exclusion boom to prevent oil from entering Vilard Pond. Approach via water is extremely difficult due to shallow water and obstructions. Access via an unnamed dirt road, need waders to deploy from land. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : End of unnamed dirt road.

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

**Field Notes:** Access via water is difficult due to shallow water.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

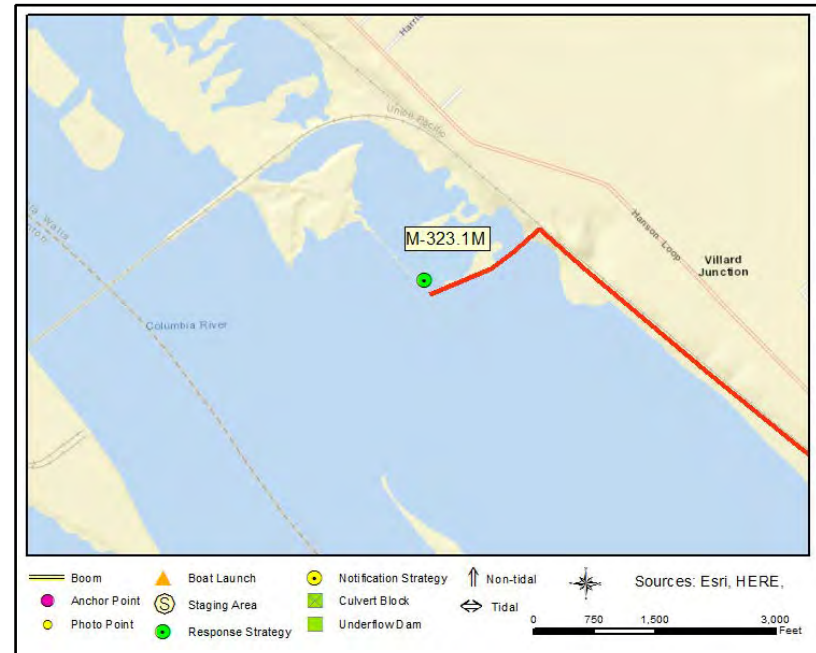
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B2 (Contractor Boom) or equivalent

### Recommended Personnel

2	Laborer
1	Supervisor



M-323.1M Photo: Boom off opening to prevent oil from reaching inner pond.



**Site Contact**

**Nearest Address**

100 Game Road  
Burbank, WA 99323

**Driving Directions**

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (7.37 miles)
7. Make sharp right on Hanson Loop Rd (Hanson Loop) (1.19 miles)
8. Turn left on Game Rd (0.16 miles)
9. Cross the railroad tracks and make an immediate right on a dirt road, follow for (1.1 miles)
10. Turn left to onto a dirt berm - drive as far out to the end as possible. Finish at Vilard Pond on the right.

**Position - Location:** 46° 10.428', -119° 1.100'      46° 10' 25.7", -119° 1' 6.0"      46.17380, -119.01833      Kennewick

**Strategy Objective:** Collection : Collect oil as it moves downstream

**Implementation:** Use 800' of boom to deflect oil to shoreline for collection. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : JR Simplot Co.-large open areas near site can be used for staging

**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:** Use Two Rivers boat launch BL-M-324.3R

**Watercourse:** River - Above a Dam - McNary 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	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



M-323.2R Photo: Aerial overview of collection area.



**Site Contact**

**JR Simplot Co.**  
 Land/Property Owner : Property owners @ collection strategy M-325.3R  
 227120 E Hedges Rd  
 Kennewick, WA 99337-7111  
 509-585-8512

**Nearest Address**

227120 E Hedges Rd  
 Kennewick, WA 99337-7111

**Driving Directions**

1. Start at US 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.84 miles)
4. Make sharp right on E A St (1.16 miles)
5. Turn left on S 10th Ave (0.45 miles)
6. Continue on WA-397 (Ed Hendler Brg) (0.53 miles)
7. At fork keep left on WA-397 (N Gum St) (3.75 miles)
8. Bear left on E Perkins Rd (1.54 miles)
9. Turn right on E Hedges Rd (0.12 miles)
10. Turn left past tanks, and then right at the waterfront - to the end of the pavement.

# Burbank 7

M-323.4M

**Position - Location:** 46° 10.780', -119° .840'      46° 10' 46.8", -119° 0' 50.4"      46.17967, -119.01400      Kennewick

**Strategy Objective:** Deflection : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Good upriver anchor point at train trestle. Water depth is good all the way to the shore for boats. Use 700' of boom to deflect oil into main channel. Could be a good collection point but all recovery would have to be via water. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Two Rivers Park

**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 Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

3	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



M-323.4M Photo: Northern anchor area



**Site Contact**

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

- Directions from Pasco to Two Rivers Boat Launch.
1. Start at US-395, pasco, wa 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp right on E A St
  5. Turn left on S 10th Ave
  6. Continue on WA-397 (Ed Hendler Brg)
  7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
  8. Turn left on E Finley Rd (2.2 mi)
  9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)



# Burbank 6

M-323.5M

**Position - Location:** 46° 10.931', -119° .731'      46° 10' 55.8", -119° 0' 43.8"      46.18218, -119.01218      Kennewick

**Strategy Objective:** Exclusion : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Use 700' of boom to exclude oil from reaching sensitive habitat. Connect south end of boom to the train trestle to prevent oil pushing behind the boom. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Two Rivers Park

**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:** Boat Access Only. Launch boat from Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

2	Each	Anchor - Danforth (or other appropriate type)
2	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



M-323.5M Photo: Area to be boomed is to the left of the train trestle.



**Site Contact**

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

- Directions from Pasco to Two Rivers Boat Launch.
1. Start at US-395, pasco, wa 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp right on E A St
  5. Turn left on S 10th Ave
  6. Continue on WA-397 (Ed Hendler Brg)
  7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
  8. Turn left on E Finley Rd (2.2 mi)
  9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)

# Burbank 5

M-323.9M

**Position - Location:** 46° 11.283', -119° 1.008'      46° 11' 17.0", -119° 1' .5"      46.18804, -119.01680      Kennewick

**Strategy Objective:** Exclusion : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Use 500' of boom to exclude oil from sensitive habitat. Water is very shallow and there is often active hunting in the area. Waders will be needed. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Two Rivers Park

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

**Field Notes:** Boat access only. Launch boat from Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

4	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
500	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
2	Laborer
1	Supervisor



M-323.9M Photo: Aerial photo of area to be boomed.



**Site Contact**

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

Directions from Pasco to Two Rivers Boat Launch.

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp right on E A St
5. Turn left on S 10th Ave
6. Continue on WA-397 (Ed Hendler Brg)
7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
8. Turn left on E Finley Rd (2.2 mi)
9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)

# Burbank 4

M-324.1M

**Position - Location:** 46° 11.433', -119° 1.173'      46° 11' 26.0", -119° 1' 10.4"      46.19055, -119.01954      Kennewick

**Strategy Objective:** Deflection : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Use 700' of boom to deflect oil from downstream habitat. Shallow water but boat can get fairly close to shore. Waders are needed to reach the shore. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Two Rivers Park

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

**Field Notes:** Launch boat from Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

4 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



M-324.1M Photo: Northern anchor area.



**Site Contact**

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

Directions from Pasco to Two Rivers Boat Launch.

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp right on E A St
5. Turn left on S 10th Ave
6. Continue on WA-397 (Ed Hendler Brg)
7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
8. Turn left on E Finley Rd (2.2 mi)
9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)

# Burbank 3

M-324.37M

**Position - Location:** 46° 11.663', -119° 1.244'      46° 11' 39.8", -119° 1' 14.7"      46.19438, -119.02074      Pasco

**Strategy Objective:** Exclusion : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Use 1000' of boom. Thick vegetation on the beach, will need machetes to clear brush. Very shallow water, will need waders to access the beach. Due to the shallow water additional fence posts may take place of the anchor systems. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Sacajawea Park

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

**Field Notes:** Boat access only. Launch boat from Sacajawea Park, BL-MSN-1R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

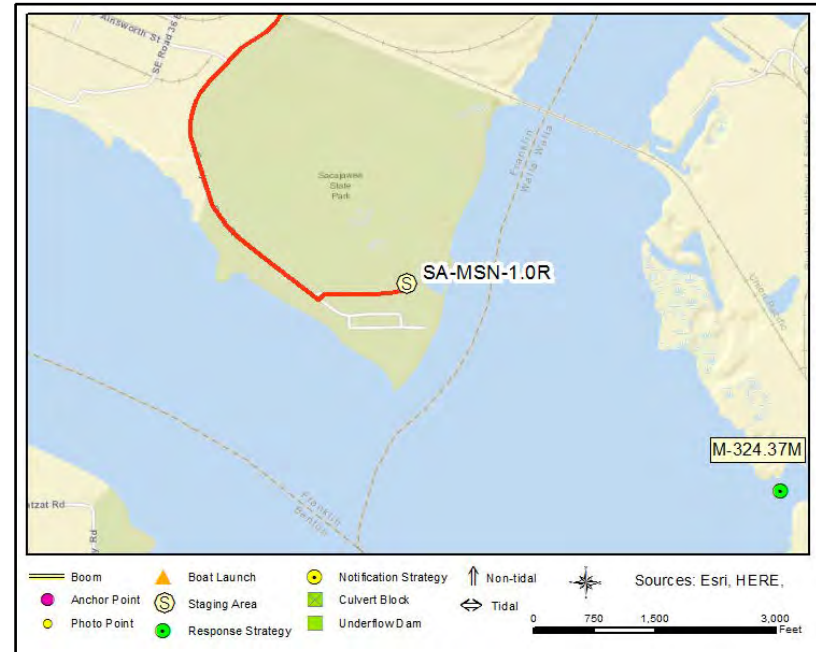
3	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
4	Laborer
1	Supervisor



M-324.37M Photo: Aerial photo of area to be boomed.



**Site Contact**

**Nearest Address**

2503 Sacajawea Park Road  
Pasco, WA 99301

**Driving Directions**

Directions from Pasco to Sacajawea State Park.

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA 99301



# Burbank 2

M-324.44M

**Position - Location:** 46° 11.768', -119° 1.367'      46° 11' 46.1", -119° 1' 22.0"      46.19614, -119.02278      Pasco

**Strategy Objective:** Deflection : Prevent oil from entering valuable bird resting and feeding area.

**Implementation:** Use 1000' of boom to deflect oil away from sensitive habitat. Shallow water, waders are needed to access shoreline. Due to depth of water additional fence posts may replace anchor systems. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at Sacajawea Park SA-MSN-1R

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

**Field Notes:** Possible access via trail from Burbank but launch boat from Sacajawea Park, BL-MSN-1R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

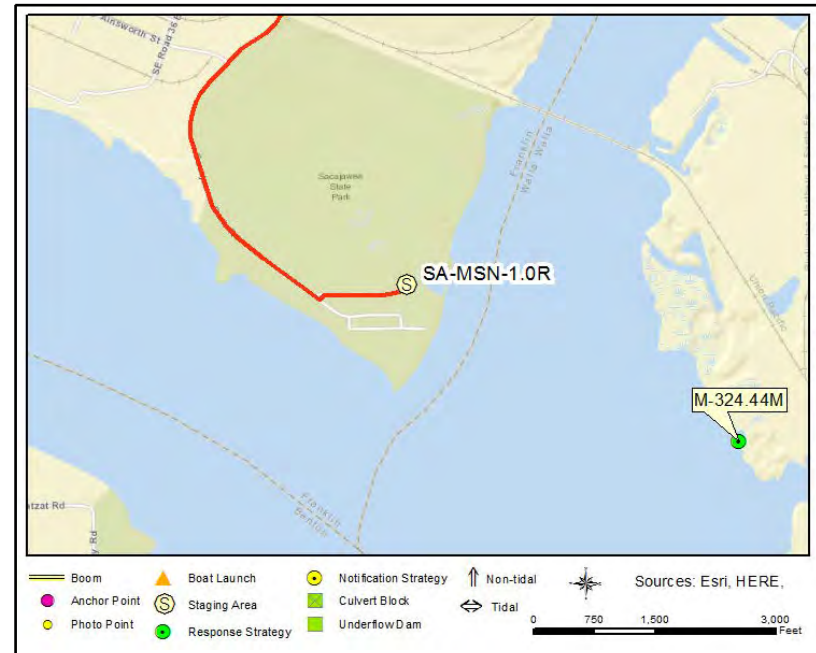
3	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-324.44M Photo: View of shoreline including northern anchor area.



**Site Contact**

**Nearest Address**

2503 Sacajawea Park Road  
Pasco, WA 99301

**Driving Directions**

Directions from Pasco to Sacajawea State Park.

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA 99301

# Burbank 1

M-324.6M

**Position - Location:** 46° 11.917', -119° 1.479'      46° 11' 55.0", -119° 1' 28.8"      46.19862, -119.02466      Pasco

**Strategy Objective:** Exclusion : Prevent oil from entering valuable bird resting and feeding areas.

**Implementation:** Use 1000' of boom. Vegetation will act as a standoff so minimal anchors will be needed. If MSN-0.8M is deployed this strategy may not be needed. Boat cannot get close so waders will be needed. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Sacajawea State Park

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

**Field Notes:** Boat Access Only. Launch boat from Sacajawea Park, BL-MSN-1R.

**Watercourse:** River - Above a Dam - McNary Pool

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



### 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



M-324.6M Photo: Aerial photo of area to be boomed



**Site Contact**

**Nearest Address**

2503 Sacajawea Park Road  
Pasco, WA 99301

**Driving Directions**

Directions from Pasco to Sacajawea State Park.

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA 99301

# Two Rivers Park South

M-324.8R

**Position - Location:** 46° 11.282', -119° 2.324'      46° 11' 16.9", -119° 2' 19.4"      46.18804, -119.03873      Kennewick

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

**Implementation:** Use 700'-800' of boom. Up river anchor point is a sandy beach. Down river anchor point is a gravel beach. Large underwater rock on approach to down river anchor point. Difficult to tell where opening to inlet is due to vegetation. Adjust quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Two Rivers Park

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

**Field Notes:** Boat access only - use BL-M-324.3R Two Rivers Park boat launch

**Watercourse:** River - Above a Dam - McNary Pool

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



### 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
2	Laborer
1	Supervisor

# Two Rivers Park South

# M-324.8R



M-324.8R Photo: Aerial photo fo area to be boomed.



### Site Contact

### Nearest Address

220880 East Finley Road  
Kennewick, WA 99337

### Driving Directions

- Directions from Pasco to Two Rivers Boat Launch.
1. Start at US-395, pasco, wa 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp right on E A St
  5. Turn left on S 10th Ave
  6. Continue on WA-397 (Ed Hendler Brg)
  7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
  8. Turn left on E Finley Rd (2.2 mi)
  9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)

# Two Rivers Park

M-325.5R

**Position - Location:** 46° 11.531', -119° 2.962'      46° 11' 31.8", -119° 2' 57.7"      46.19218, -119.04937      Kennewick

**Strategy Objective:** Deflection : Protect shallow water habitat around Two Rivers Park

**Implementation:** Use two sections of boom. The first (BM-1) is 500' to excluded oil from small cove. The second (BM-2) is 800' of boom to deflect oil away form the park. Do not anchor downstream end to the shoreline to keep access to boat launch. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Two Rivers Park

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

**Field Notes:** Launch boat onsite at Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** City Park, Waterfowl and Salmonid Concentrations and Habitat



### Recommended Equipment

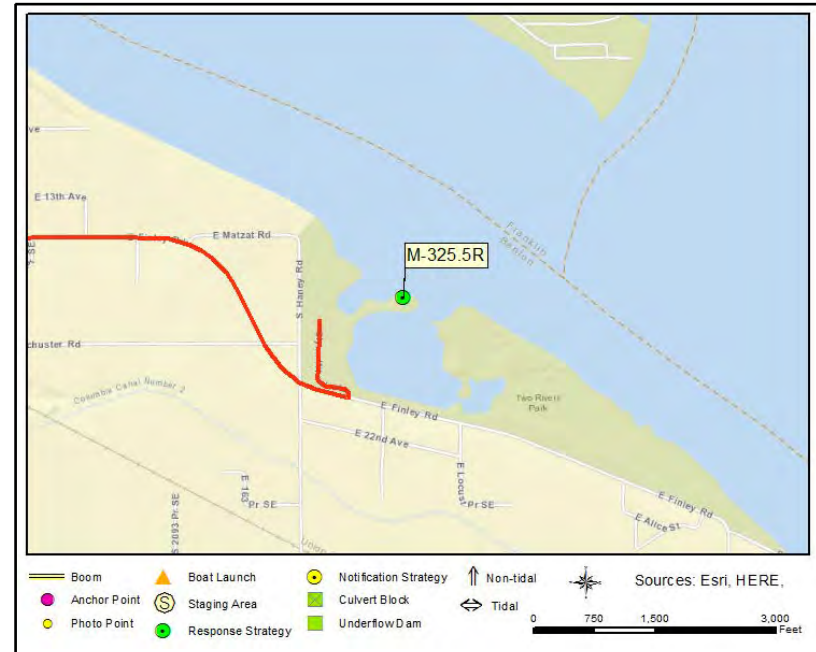
7 Each	Anchor - Danforth (or other appropriate type)
3 Each	Anchoring System(s)- Shoreside
1300 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
4	Laborer
1	Supervisor



M-325.5R Photo: View from the west bank at Two Rivers Park



**Site Contact**

**Nearest Address**

Glynn Wheeler Lane  
Kennewick, WA 99337

**Driving Directions**

- Directions from Pasco to Two Rivers Boat Launch.
1. Start at US-395, pasco, wa 99301
  2. Go south on US-395 toward W Vineyard Dr
  3. Continue on WA-397
  4. Make sharp right on E A St
  5. Turn left on S 10th Ave
  6. Continue on WA-397 (Ed Hendler Brg)
  7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
  8. Turn left on E Finley Rd (2.2 mi)
  9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)



# SW side of Sacajawea State Park

M-325.6L

**Position - Location:** 46° 12.113', -119° 2.839'      46° 12' 6.8", -119° 2' 50.3"      46.20188, -119.04731      Pasco

**Strategy Objective:** Deflection : Keep oil away from the park shoreline.

**Implementation:** Use 800' of boom with one anchor point on the shoreline and the downstream anchor out towards the center of the channel. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Plenty of staging available onsite at Sacajawea State Park.

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

**Field Notes:** Use BL-MSN-1R Sacajawea State Park boat launch

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** State Park, Waterfowl and Salmonid Concentrations and Habitat



### Recommended Equipment

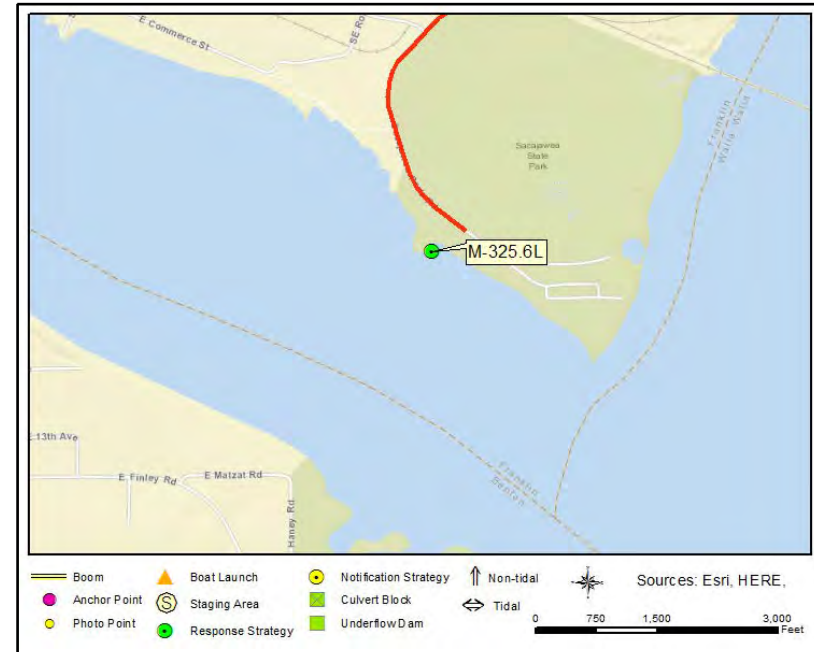
4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
800	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-325.6L Photo: View of shoreline anchor point



**Site Contact**

**Sacajawea State Park**  
 Land/Property Contact : Park Ranger  
 2503 Sacajawea Park Road  
 Pasco, WA  
 509-545-2361

**Nearest Address**

2503 Sacajawea Park Road  
 Pasco, WA 99301

**Driving Directions**

1. Start at Us 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (2.07 miles)
7. Make sharp right on E A St (0.28 miles)
8. Turn left on S Road 40 E (1 miles)
9. Bear right (0.02 miles)
10. Bear right on Sacajawea Park Rd (0.8 miles)
11. Finish at 2503 Sacajawea Park Road, 99301, on the left

# Two Rivers Park North

M-325.6R

**Position - Location:** 46° 11.689', -119° 3.209'      46° 11' 41.3", -119° 3' 12.5"      46.19481, -119.05348      Kennewick

**Strategy Objective:** Deflection : Protect downstream shallow water habitat.

**Implementation:** Use 800' of deflection boom at point north of shallow water inlet. Angle boom out from the shoreline to the channel. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Stage at Two Rivers Park

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

**Field Notes:** Launch boat onsite at Two Rivers Park, BL-M-324.3R.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** City Park, Waterfowl and Salmonid Concentrations and Habitat



### Recommended Equipment

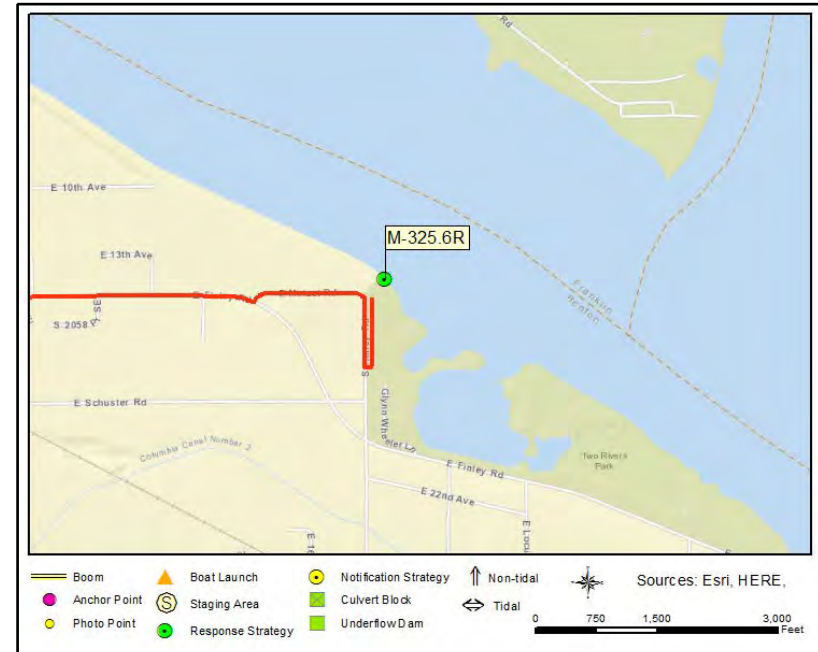
4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-325.6R Photo: Deflection strategy shoreline anchor area at Two Rivers Park



## Site Contact

## Nearest Address

10204 South Haney Road  
Kennewick, WA 99337

## Driving Directions

1. Start at US 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.84 miles)
4. Make sharp right on E A St (1.16 miles)
5. Turn left on S 10th Ave (0.45 miles)
6. Continue on WA-397 (Ed Hendler Brg) (0.53 miles)
7. At fork keep left on WA-397 (N Gum St) (2.25 miles)
8. Turn left on E Finley Rd (1.15 miles)
9. Turn left on E Schuster Rd (0.08 miles)
10. Turn left on S Haney Rd (0.1 miles)
11. Turn right onto gravel access road located at 11314 South Haney Road on the left
12. Follow the access road to the left (0.3 miles)

# North of E Matzat Rd

M-325.7R

**Position - Location:** 46° 11.737', -119° 3.272'      46° 11' 44.2", -119° 3' 16.3"      46.19561, -119.05454      Kennewick

**Strategy Objective:** Deflection : Protect downstream shallow water habitat.

**Implementation:** Use 800' of boom that is anchored to the shoreline. Downstream anchor point should be angled towards the center of the channel. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : N corner of Two Rivers Park

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

**Field Notes:** Launch at BL-M-324.3R/Two Rivers

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:**



## Recommended Equipment

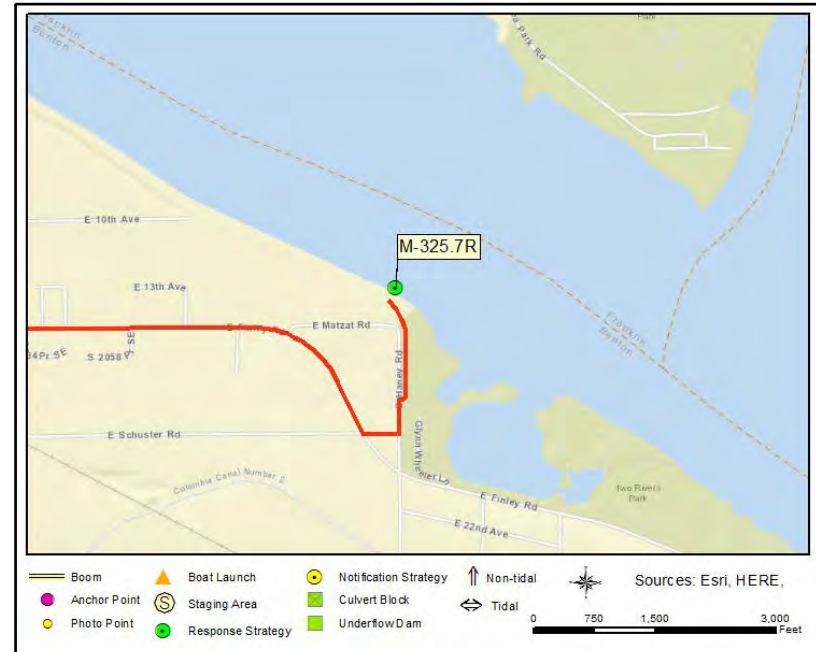
4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-325.7R Photo: Shoreline anchor area



**Site Contact**

**Nearest Address**

11314 South Haney Road  
 Kennewick, WA 99337

**Driving Directions**

1. Start at US 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.84 miles)
4. Make sharp right on E A St (1.16 miles)
5. Turn left on S 10th Ave (0.45 miles)
6. Continue on WA-397 (Ed Hendler Brg) (0.53 miles)
7. At fork keep left on WA-397 (N Gum St) (2.25 miles)
8. Turn left on E Finley Rd (1.15 miles)
9. Turn left on E Schuster Rd (0.08 miles)
10. Turn left on S Haney Rd (0.1 miles)
11. Turn right onto gravel access road located at 11314 South Haney Road on the left
12. Follow the access road to the left (0.3 miles)

# Tidewater CCP

M-325.89L

**Position - Location:** 46° 12.363', -119° 3.068'      46° 12' 21.8", -119° 3' 4.1"      46.20605, -119.05113      Pasco

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

**Implementation:** Deploy 600' of boom to divert oil to the shoreline for collection. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Large parking areas available nearby.

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

**Field Notes:** Use BL-M-328.1L Pasco Boat Basin boat launch

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Downstream Resources



### Recommended Equipment

4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
600	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
3	Laborer
1	Supervisor



M-325.89L Photo: View of the collection area on Tidewater Columbia River shoreline



**Site Contact**

**Nearest Address**

3305 East Commerce Street  
Pasco, WA 99301

**Driving Directions**

Directions from Richland to Strategy Location.

1. Start at US 12 Richland
2. Go southeast on WA-240-BR (George Washington Way) (0.77 miles)
3. Bear right onto ramp to I-182 toward Pasco/Yakima (0.1 miles)
4. At fork keep left on I-182 E toward Pasco (0.13 miles)
5. Take ramp and go east on I-182 (US-12 E) (10.43 miles)
6. Continue on US-12 (2.07 miles)
7. Make sharp right on E A St (0.28 miles)
8. Turn left on S Road 40 E (1 miles)
9. Bear right (0.02 miles)
10. Bear right on Sacajawea Park Rd (0.24 miles)
11. Turn right on E Ainsworth St (0.15 miles)
12. Turn left on SE Road 36 E (0.31 miles)
13. Bear right on E Commerce St ( )
14. Finish at 3305 East Commerce Street, 99301, on the right



# Sacajawea Park Foot Bridge

M-325.9L

**Position - Location:** 46° 12.428', -119° 3.176'      46° 12' 25.7", -119° 3' 10.5"      46.20713, -119.05293      Pasco

**Strategy Objective:** Collection : Prevent oil from reaching the Columbia River

**Implementation:** Deploy boom in drainage canal at Sacajawea Park Foot Bridge. Acces via footpath at intersection with Sacajawea Park Road. 100' of boom is enough to go back and forth across the ditch several times.

**Staging Area:** Onsite : Parking lots nearby could be used for staging.

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

**Field Notes:** No boat needed for strategy.

**Watercourse:** Ditch - Ditch leading to Columbia River

**Resources at Risk:**



## Recommended Equipment

4 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Vac Truck or Skimmer and Storage

## Recommended Personnel

2 Laborer
1 Supervisor

# Sacajawea Park Foot Bridge

M-325.9L



M-325.9L Photo: Looking up the drainage ditch from the foot bridge.

### Site Contact

### Nearest Address

3305 East Commerce Street  
Pasco, WA 99301



### Driving Directions

1. Start at Us 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (2.07 miles)
7. Make sharp right on E A St (0.28 miles)
8. Turn left on S Road 40 E (1 miles)
9. Bear right (0.02 miles)
10. Bear right on Sacajawea Park Rd (0.24 miles)
11. Turn right on E Ainsworth St (0.15 miles)
12. Turn left on SE Road 36 E (0.31 miles)
13. Bear right on E Commerce St ( )
14. Finish at 3305 East Commerce Street, 99301, on the right

# Indian Island

M-326.1M

**Position - Location:** 46° 12.245', -119° 3.470'      46° 12' 14.7", -119° 3' 28.2"      46.20409, -119.05783      Pasco

**Strategy Objective:** Deflection : Keep oil moving downstream off of Indian Island

**Implementation:** Use 1000' in a chevron configuration at the head of the island. Adjust number and location of anchors based on conditions of the day.

**Staging Area:** Remote : Sacajawea State Park

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

**Field Notes:** Launch boat from Sacajawea Park, BL-MSN-1R.

**Watercourse:** River - Above a Dam - McNary Pool

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



## Recommended Equipment

6	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
3	Laborer
1	Supervisor

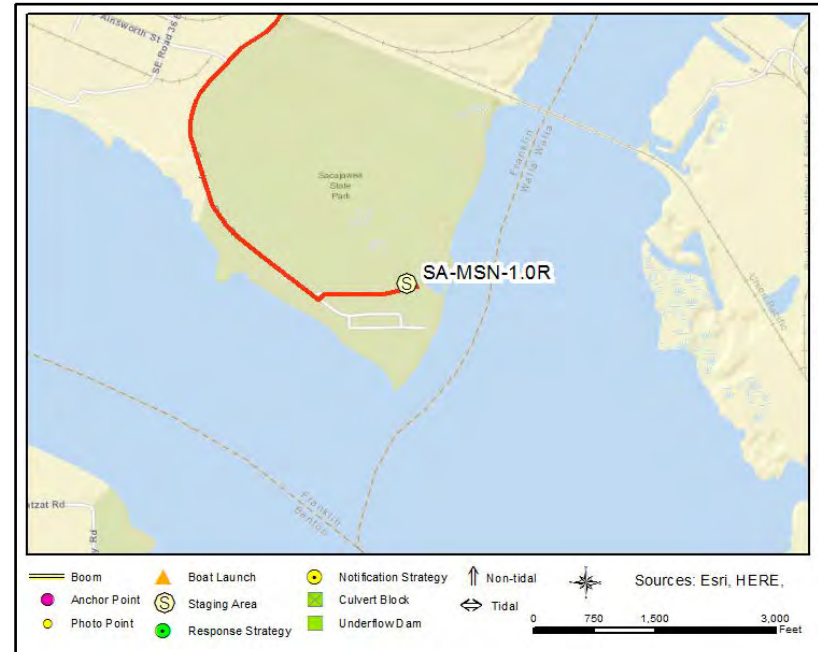


M-326.1M Photo: M-326.1M View of Indian Island from upstream water intake facility.

**Site Contact**

**Nearest Address**

2503 Sacajawea Park Road  
Pasco, WA 99301



**Driving Directions**

- Directions from Pasco to Sacajawea State Park.
1. Head south on US-395 S
  2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
  3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
  4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA 99301

# SE Rd 27 Water Intake

M-326.5L

**Position - Location:** 46° 12.553', -119° 3.916'      46° 12' 33.2", -119° 3' 55.0"      46.20921, -119.06527      Pasco

**Strategy Objective:** Deflection : Deflect oil away from water intake & Sacajawea State Park shoreline

**Implementation:** Anchor 800' of deflection boom on the NW corner of the water intake facility, run boom south toward the center of the river. Adjust angle of boom, placement & number of anchors according to conditions of the day.

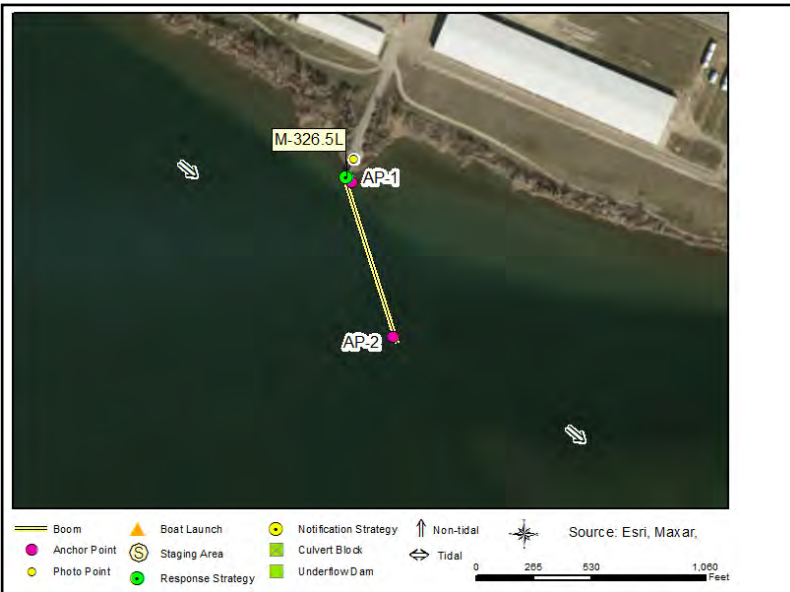
**Staging Area:** Onsite: Paved parking area for staging, will need bolt cutters to access pump house deck.

**Site Safety:** Slips, trips, falls, water hazard

**Field Notes:** Launch boat from Pasco Boat Basin, BL-M-328.1L.

**Watercourse:** River - Above a Dam - Middle Columbia River

**Resources at Risk:** Downstream Resources, Water Intakes



## 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



M-326.5L Photo: Facing NE looking at boom protecting water intake facility

**Site Contact**

**Nearest Address**

100 E Dock Street  
Pasco, WA 99301



**Driving Directions**

- Directions from Pasco to Strategy Location
1. Start at US-395, Pasco, WA 99301
  2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
  3. Continue on WA-397 (2.45 miles)
  4. Turn left on E Ainsworth St (0.14 miles)
  5. Continue on E Dock St (0.47 miles)
  6. Turn right on SE Rd 27 and go to the end (0.2 mi)

# East Dock Street

M-327.1L

**Position - Location:** 46° 12.774', -119° 4.504'      46° 12' 46.4", -119° 4' 30.2"      46.21290, -119.07506      Pasco

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

**Implementation:** Deploy 800' of boom to deflect oil towards the shoreline for collection at the end of the jetty. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Parking lots near site, boat launch at Pasco Boat Basin

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

**Field Notes:** Launch boat from Pasco Boat Basin, BL-M-328.1L.

**Watercourse:** River - Above a Dam - McNary 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	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



M-327.1L Photo: Looking down the pier at the collection area.

### Site Contact

### Nearest Address

E Dock Street  
Pasco, WA 99301



### Driving Directions

1. Start at Us 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (2.45 miles)
4. Turn left on E Ainsworth St (0.14 miles)
5. Continue on E Dock St (0.4 miles)
6. Turn right into parking area



# Pasco Boat Basin

M-328.0L

**Position - Location:** 46° 13.091', -119° 5.482'      46° 13' 5.4", -119° 5' 28.9"      46.21818, -119.09136      Pasco

**Strategy Objective:** Deflection : Keep oil out of Pasco Boat Basin

**Implementation:** Deploy 300' of boom from the western jetty towards river center to deflect oil away from the entrance to the Pasco Boat Basin. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite: Stage on site at SA-M-328.1L/Pasco Boat Basin

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

**Field Notes:** Launch on site at BL-M-328.1L/Pasco Boat Basin

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Recreational Boating



## Recommended Equipment

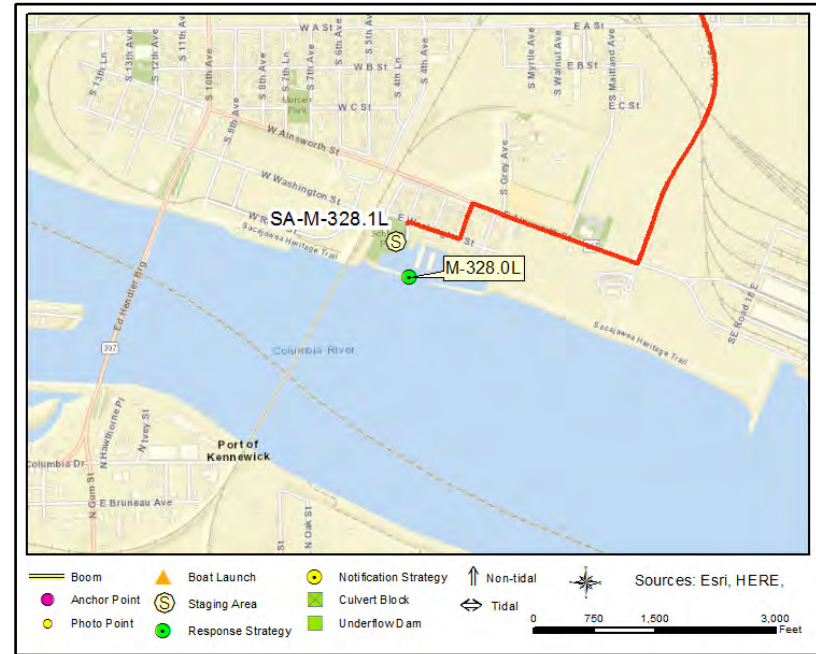
2 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-328.0L Photo: Facing NW looking at boom protecting Pasco Boat Basin



**Site Contact**

**City of Pasco Recreation Service**

Primary Contact :

Pasco, WA 99301  
509-545-3456

**Nearest Address**

1315 South 4th Ave.  
Pasco, WA 99301

**Driving Directions**

1. Start at US-395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (2.87 miles)
4. Turn left on S 2nd Ave (0.09 miles)
5. Turn right on E Washington St (0.13 miles)
6. Turn left on S 4th Ave (0.01 miles)
7. Finish at 1315 South 4th Ave., 99301, on the left

# 10th Ave Bridge/N Gum St

M-328.4L

**Position - Location:** 46° 13.196', -119° 6.033'      46° 13' 11.8", -119° 6' 2.0"      46.21993, -119.10055      Pasco

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

**Implementation:** Deploy 800' of boom from N Gum St shoreside anchoring position to the 10th Ave bridge 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 : Paved roadside parking and pier available for staging

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

**Field Notes:** Launch at BL-M-328.1L/Pasco Boat Basin

**Watercourse:** River - Above a Dam - McNary 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) - Bridge Pier (appropriately sized for boom)
100 Feet	Line - 1/2" poly line
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

# 10th Ave Bridge/N Gum St

M-328.4L



M-328.4L Photo: View of shoreside anchoring position



### Site Contact

### Nearest Address

720 W River St  
Pasco, WA 99301

### Driving Directions

1. Start at US-395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.84 miles)
4. Make sharp right on E A St (0.66 miles)
5. Turn left on S 4th Ave (0.42 miles)
6. Turn left on S 5th Ave (0.2 miles)
7. Continue on W River St (0.2 miles)
8. Turn left onto N Gum St (400 ft) you will see the pier on the right.

# Clover Island S

M-328.9R

**Position - Location:** 46° 12.924', -119° 7.046'      46° 12' 55.4", -119° 7' 2.7"      46.21539, -119.11743      Kennewick

**Strategy Objective:** Collection : Collect oil that is moving downstream and deflect oil from shore of Clover Island

**Implementation:** Use 1000' of boom to divert oil towards western shore for collection. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Will need bolt cutters to remove padlock on post by shoreside anchor pt. Stage on site at SA-M-328.9R/Clover Island

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

**Field Notes:** Launch on site at BL-M-328.9R/Clover Island

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Downstream Resources, Economic Resource, Recreational Shoreline 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	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

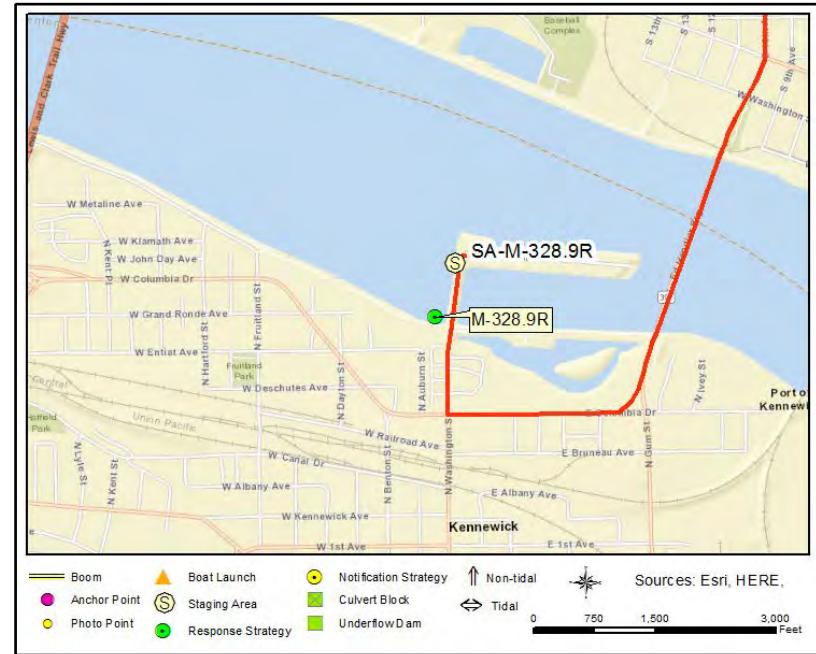
1	Boat Operator
4	Laborer
1	Supervisor

# Clover Island S

# M-328.9R



M-328.9R Photo: View of shoreside anchor point with padlocked post on roadway



### Site Contact

#### Port of Kennewick

Primary Contact : Manages Clover Island boat launch (they have boom)

Kennewick, WA 99336  
509-586-1186

### Nearest Address

350 Clover Island Dr.  
Kennewick, WA 99336

### Driving Directions

1. Directions to Clover Island, starting from US- 395, Pasco, Wa 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.85 miles)
4. Make sharp right on E A St (1.16 miles)
5. Turn left on S 10th Ave (0.45 miles)
6. Continue on WA-397 (Ed Hendler Brg) (0.53 miles)
7. Continue on E Columbia Dr (0.51 miles)
8. Turn right on N Washington St (Clover Island Dr) (0.05 miles)
9. Continue on Clover Island Dr (0.51 miles)
10. Finish at 350 Clover Island Dr., 99336, on the right

# Clover Island N

M-329.0M

**Position - Location:** 46° 13.082', -119° 6.875'      46° 13' 4.9", -119° 6' 52.5"      46.21804, -119.11459      Kennewick

**Strategy Objective:** Deflection : Keep oil off Clover Island shoreline - divert to collection point downstream

**Implementation:** Anchor 800' of boom from the shore below the NE tip of the parking lot across the street from the boat launch; tow boom out toward the ENE to deflect oil away from Clover Island shoreline and toward a collection point downstream. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage at SA-M-328.9R/Clover Island, parking lot across the street from the boat launch.

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

**Field Notes:** Launch from BL-M-328.9R/Clover Island

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Economic Resource, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat



### 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	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor



M-329.0M Photo: View of strategy anchor point at the NE corner of the W parking lot on Clover Island



## Site Contact

### Port of Kennewick

Land/Property Contact : Manages Clover Island boat launch (they have boom)

Kennewick, WA 99336  
509-586-1186

## Nearest Address

350 Clover Island Dr.  
Kennewick, WA 99336

## Driving Directions

1. Directions to Clover Island, starting from US-395, Pasco, Wa 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.85 miles)
4. Make sharp right on E A St (1.16 miles)
5. Turn left on S 10th Ave (0.45 miles)
6. Continue on WA-397 (Ed Hendler Brg) (0.53 miles)
7. Continue on E Columbia Dr (0.51 miles)
8. Turn right on N Washington St (Clover Island Dr) (0.05 miles)
9. Continue on Clover Island Dr (0.51 miles)
10. Finish at parking lot on the left across from the boat launch, Clover Island Dr., 99336



# Columbia Park East (Kennewick)

M-330.3R

**Position - Location:** 46° 13.340', -119° 8.325'      46° 13' 20.4", -119° 8' 19.5"      46.22234, -119.13875      Kennewick

**Strategy Objective:** Exclusion : Keep oil out of boat launch, creek & off park shoreline

**Implementation:** Deploy 600' of boom from point of land on the W side of the boat launch, anchor to bridge using bridle & line, keep the boat launch open; use 100' of boom in a chevron formation anchored on either side of the creek to keep oil out of the creek. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-M-330.2R/Columbia Park East (Kennewick)

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

**Field Notes:** Launch on site at BL-M-330.2R/Columbia Park East (Kennewick)

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Boat Launch/Ramp, City Park, Creek Habitat, Waterfowl and Salmonid Concentrations and Habitat



## Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
3	Each	Anchoring System(s)- Shoreside
600	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Bridge Pier (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

## Columbia Park East (Kennewick)

M-330.3R



M-330.3R Photo: View from anchor point on spit of land W of launch downstream to the bridge



### Site Contact

#### City of Kennewick Parks, Rec & Tourism

Primary Contact : Manages boat launches

Kennewick, WA 99352

### Nearest Address

1106 Columbia Park Trail  
Kennewick, WA 99336

### Driving Directions

1. Head south on US-395 S
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. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (0.2 mi)
6. Take the exit toward W Columbia Dr (0.1 mi)
7. Continue onto Columbia Park Trail (453 ft)
8. At the traffic circle, take the 1st exit and stay on Columbia Park Trail (0.2 mi)
9. At the next traffic circle, take the 2nd exit and stay on Columbia Park Trail (0.5 mi)
10. Stay on Columbia Park Trail, your destination will be on your left (0.5 mi)

# Wade Park

M-331.4L

**Position - Location:** 46° 13.946', -119° 9.754'      46° 13' 56.8", -119° 9' 45.2"      46.23244, -119.16256      Pasco

**Strategy Objective:** Collection : Collect oil moving downstream while protecting the water intake facility

**Implementation:** Use 800' of boom to divert oil towards shore for collection (keep boat launch open), and 100' of boom in a chevron formation to protect the water intake facility. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-M-331.4L/Wade Park

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

**Field Notes:** Launch on site at BL-M-331.4L/Wade Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Boat Launch/Ramp, City Park, Downstream Resources, Water Intakes, Waterfowl and Salmonid Concentrations and Habitat



### Recommended Equipment

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

### Recommended Personnel

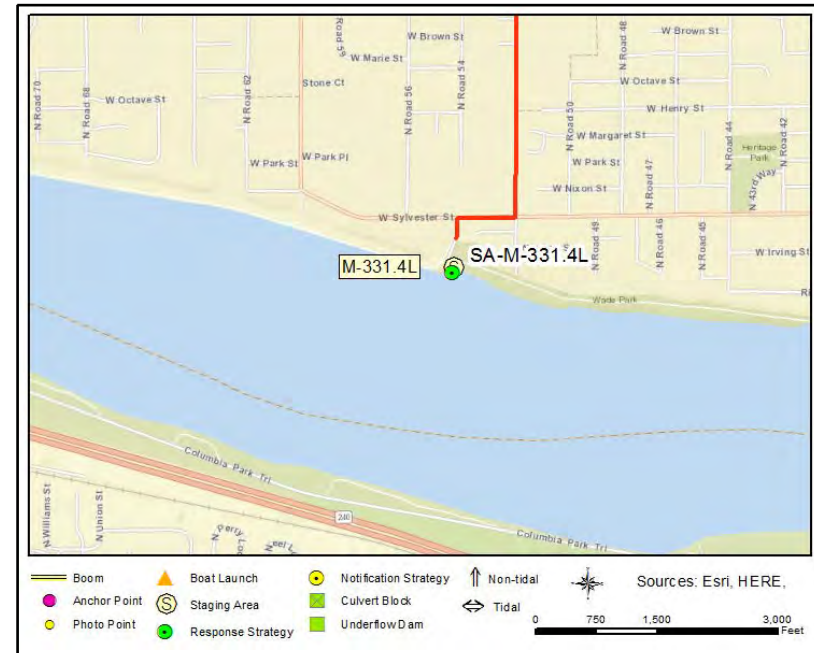
1	Boat Operator
4	Laborer
1	Supervisor

# Wade Park

M-331.4L



M-331.4L Photo: View of shoreside anchor point on the west side of Wade Park boat launch.



## Site Contact

### City of Pasco Recreation Service

Primary Contact :

Pasco, WA 99301  
509-545-3456

## Nearest Address

601 Road 54  
Pasco, WA 99301

## Driving Directions

1. Start at US-395, Pasco, Wa 99301
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 (0.83 miles)
5. Take ramp on the right to Court St. (0.32 miles)
6. Turn right on W Court St (1.38 miles)
7. Turn left on N Road 52 (0.5 miles)
8. Turn right on W Sylvester St (0.14 miles)
9. Turn left on N Road 54 (0.05 miles)
10. Finish at 601 Road 54, 99301, on the left

# Columbia Park West (Kennewick)

M-332.8R

**Position - Location:** 46° 13.878', -119° 11.513'      46° 13' 52.7", -119° 11' 30.8"      46.23131, -119.19188      Kennewick

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

**Implementation:** Anchor 800' of boom to anchor point at boat launch then tow boom upriver to the NW to anchor off-shore. Adjust angle of boom, as well as quantity and placement of anchors, based on conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-M-332.8R/Columbia Park West (Kennewick)

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

**Field Notes:** Launch on site at BL-M-332.8R/Columbia Park West (Kennewick)

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Boat Launch/Ramp, Downstream Resources, Waterfowl and Salmonid Concentrations and Habitat



## Recommended Equipment

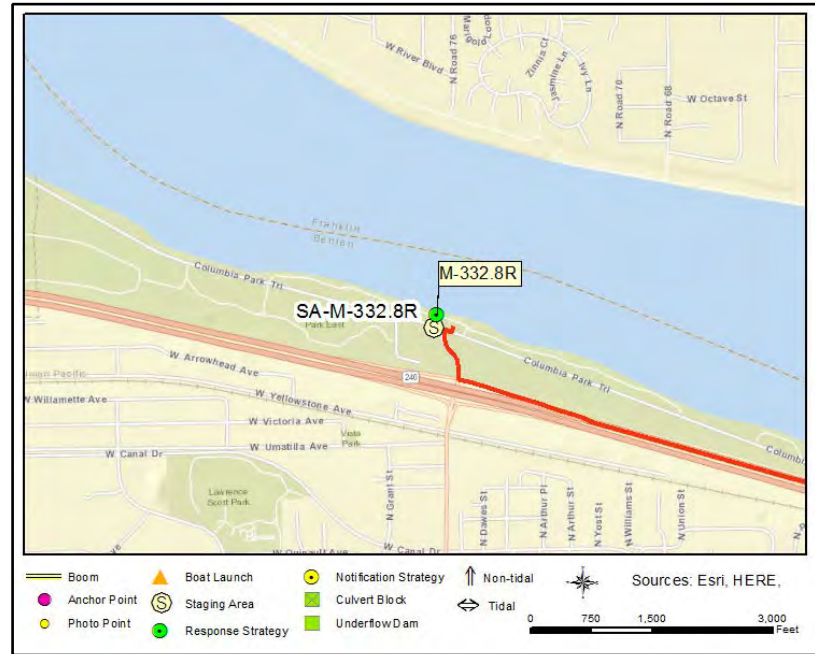
4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
800	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-332.8R Photo: Anchor point at boat launch



**Site Contact**

**City of Kennewick Parks, Rec & Tourism**  
 Primary Contact : Manages boat launches  
 Kennewick, WA 99352

**Nearest Address**

1548 N Edison St.  
 Kennewick, WA 99336

**Driving Directions**

1. Starting at US-395 S in Pasco
2. Turn right to merge onto I-182 W/US-12 W toward Kennewick/Richland/Yakima (0.5 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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/Richland (2.6 mi)
6. Take the Edison St exit (0.3 mi)
7. Turn right onto N Edison St (0.1 mi)
8. Turn right onto Columbia Park Trail (79 ft) , boat launch is on the left.

# Carpet Island

M-333.3M

**Position - Location:** 46° 14.315', -119° 12.202'      46° 14' 18.9", -119° 12' 12.1"      46.23859, -119.20337      Pasco

**Strategy Objective:** Deflection : Deflection

**Implementation:** Using workboat, deploy 1000' of boom in a chevron formation with apex, anchor point A, just off-shore at the W tip of the island 46.2384 , -119.203. Anchor points B and C should each be 500 ft downstream, one either side of the island, and slightly off shore. Do not anchor on the shoreline itself.

**Staging Area:** Remote : Stage at Chiawana Park boat launch SA-M-333.9L

**Site Safety:** Slips, trips, & falls, water hazard.

**Field Notes:** Launch at Chiawana Park boat launch

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

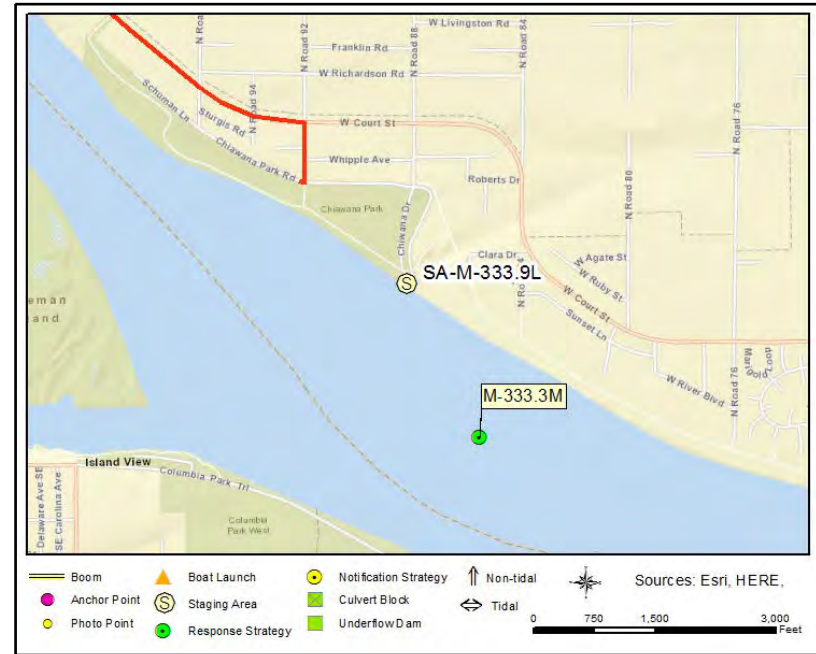
6 Each	Anchor - Danforth (or other appropriate type)
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
4	Laborer
1	Supervisor



M-333.3M Photo: View of Carpet Island from the left bank of the Columbia River at Chiawana Park



### Site Contact

#### USACE McNary pool

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

### Nearest Address

100 Chiawana Park Rd  
Pasco, WA 99301

### Driving Directions

#### DIRECTIONS TO STAGING AREA/BOAT LAUNCH (SA/BL-M-333.9L)

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (4.9 mi)
3. Take exit 9 for Rd 68 (0.4 mi)
4. Turn left onto N Rd 68 (0.8 mi)
5. Turn right onto W Argent Rd (1.3 mi)
6. Turn left onto Rd 88 (0.6 mi)
7. Turn left onto Schuman Ln/Chiawana Park Rd (0.3 mi)



# Columbia Park West Marina

M-334.0R

**Position - Location:** 46° 14.401', -119° 13.168'      46° 14' 24.0", -119° 13' 10.1"      46.24001, -119.21947      Richland

**Strategy Objective:** Exclusion : Keep oil from entering marina; keep boat launch and gas pumps open

**Implementation:** Anchor 800' of boom to shoreline at the SE corner of Bateman Island and run it SE to anchor offshore. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day. Keep boat launch & gas pumps accessible.

**Staging Area:** Onsite : Stage on site at SA-M-334R/Columbia Park Marina

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

**Field Notes:** Launch on site at BL-M-334R/Columbia Park Marina

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Boat Basin/Marina, Recreational Boating, Waterfowl and Salmonid Concentrations and Habitat



### 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	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor



M-334.0R Photo: View of Columbia Park boat launch, fuel pumps, and location of Bateman Island where 2nd boom is to be anchored

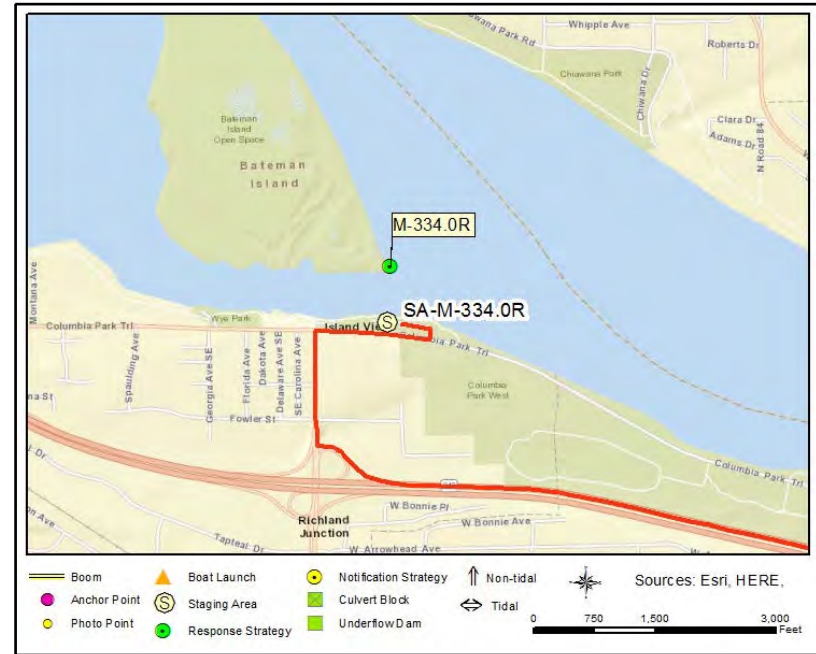
**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

1776 Columbia Park Trail  
 Richland, WA 99352



**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/Richland (4.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)

# Bateman Island Creek

M-334.3M

**Position - Location:** 46° 14.576', -119° 13.281'      46° 14' 34.5", -119° 13' 16.8"      46.24293, -119.22135      Richland

**Strategy Objective:** Exclusion : Keep oil out of creek on Bateman Island

**Implementation:** Anchor 200' of boom on either side of the creek mouth in a chevron formation to keep oil out. Stay as far off the shoreline & as close to the water as possible while still achieving objective. Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Remote : Stage at SA-M-334R/Columbia Park Marina

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

**Field Notes:** Use BL-M-334R/Columbia Park Marina

**Watercourse:** River - Above a Dam - McNary Pool

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



## Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring Post(s) - (shoreside)
500	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-334.3M Photo: Aerial view of Bateman Island creeks



### Site Contact

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

### Nearest Address

1776 Columbia Park Trail  
 Richland, WA 99352

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington240 W/Richland (4.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)

# Chiawana Park Pier

M-334.5L

**Position - Location:** 46° 14.806', -119° 12.974'      46° 14' 48.4", -119° 12' 58.5"      46.24677, -119.21624      Pasco

**Strategy Objective:** Collection : Keep oil off park shoreline

**Implementation:** Anchor 800' of boom to the downstream base of the pier and run it out to the SSE to deflect uncaptured oil away from park shoreline. Existing flag poles on either side of the pier may work as anchor posts. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

**Staging Area:** Onsite : You can stage at large paved parking area adjacent to the pier (may need bolt cutters if gate is locked)

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

**Field Notes:** Launch boat at BL-M-333.9L/Chiawana Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** City Park, Downstream Resources, Recreational Shoreline Area, Waterfowl and Shorebird Concentrations



## Recommended Equipment

6 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



M-334.5L Photo: View of Chiawana pier and upstream



**Site Contact**

**City of Pasco Recreation Service**

Primary Contact :

Pasco, WA 99301  
509-545-3456

**Nearest Address**

100 Chiawana Park Rd  
Pasco, WA 99301

**Driving Directions**

1. Start at us-395, pasco, WA 99301
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 (4.89 miles)
4. At exit 9 take ramp on the right to Road 68 (0.48 miles)
5. Turn left on N Road 68 (0.78 miles)
6. Turn right on Argent Rd (1.52 miles)
7. Turn left on N Road 92 (0.69 miles)
8. Turn right on Chiawana Park Rd (0.2 miles)
9. Finish at parking lot for pier on the right





M-335.0M Photo: View towards the west from strategy shoreside anchor point.



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Land/Property Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

1600 Columbia Park Trail  
 Richland, WA 99352

**Driving Directions**

1. Using a 4-wheel drive vehicle, head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington240 W/Richland (4.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail (0.1 mi)
9. Turn right into parking area on the right across from Dakota Ave and drive through lot, across paved walkway,  
 to a gate at the entrance to the causeway (bring bolt cutters if City Park staff are unavailable).
10. Follow the main gravel drive, staying to the left, to your destination (1 mi)
11. Finish at (Lat) N 46.250597, (Long) W -119.230919



# N shore confluence of the Columbia & Yakima Rivers

M-335.8R

**Position - Location:** 46° 15.556', -119° 14.462'      46° 15' 33.3", -119° 14' 27.7"      46.25926, -119.24104      Richland

**Strategy Objective:** Deflection : Deflect oil away from the Yakima River mouth

**Implementation:** Anchor boom on the southernmost point on the peninsula (sensitive resources in the area); run 800' of deflection boom to the ESE to keep oil away from Yakima River estuary. Adjust angle of boom, as well as placement and quantity of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-M-336.4R/Columbia Pt Marine Park

**Site Safety:** Slips, trips, falls, water hazard

**Field Notes:** Launch boat from BL-M-336.4R/Columbia Pt Marine Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Critical Waterfowl, Shorebird Nesting, and Brooding Area, Estuary Resources, Federally Protected Area/Lands, Habitat Management



## Recommended Equipment

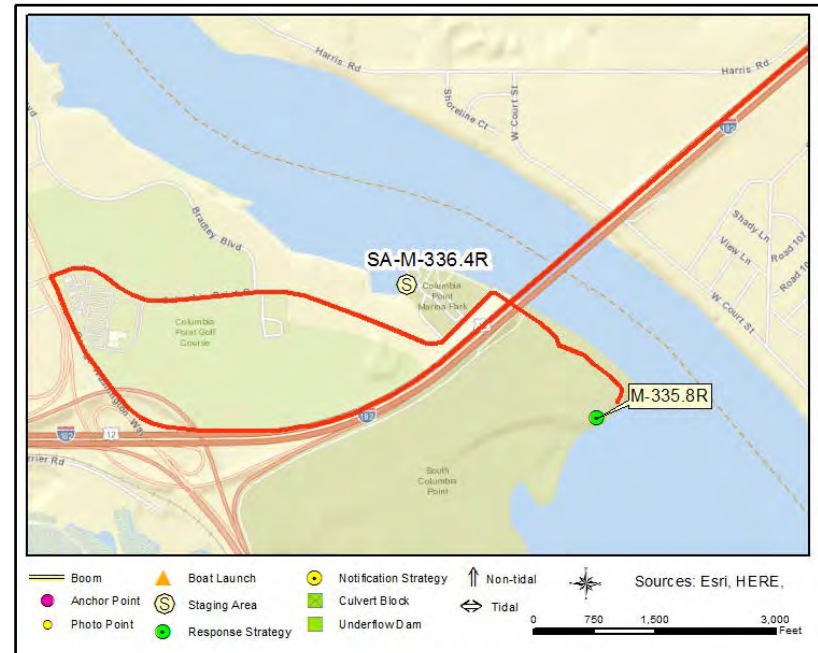
4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-335.8R Photo: Photo of shoreside anchoring point looking downstream



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

660 Columbia Point Drive  
 Richland, WA 99352

**Driving Directions**

Directions to SA-M-336.4R/Columbia Pt Marine Park

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (0.8 mi)
4. Turn right onto Columbia Point Drive, destination will be through the (locked) gate, along the gravel road, left at the first two forks and stay right at the third fork (2 mi)
5. Boat launch is at the marina to the left of the (locked) gate - 660 Columbia Point Drive, 99352

# Hwy I-182 Bridge

M-336.1R

**Position - Location:** 46° 15.787', -119° 14.707' 46° 15' 47.2", -119° 14' 42.4" 46.26312, -119.24512 Richland

**Strategy Objective:** Collection : Collect oil that is moving downstream and deflect uncollected oil away from the mouth of the Yakima River downstream

**Implementation:** Anchor on shore on the SE side of the bridge, run 800' of boom to the N to divert oil to vac truck or portable skimmer at anchor point, run an additional 800' of boom to the E to deflect excess oil away from shore. Adjust angle of boom, as well as placement and quantity of anchors based on conditions of the day.

**Staging Area:** Onsite : Locked gate by marina parking lot, call City of Richmond but bring bolt cutters in case of delay

**Site Safety:** Slips, trips, falls, water hazard

**Field Notes:** Use BL-M-336.4R/Columbia Pt Marine Park

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

8 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1600 Feet	Boom - B2 (Contractor Boom) or equivalent
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



M-336.1R Photo: Location for vac truck to park by spot for shoreside anchoring



### Site Contact

**City of Richland Parks and Recreation Department**  
Primary Contact : Manages this boat launch  
  
Richland, WA 99352  
509-942-7529

### Nearest Address

660 Columbia Point Drive  
Richland, WA 99352

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (0.8 mi)
4. Turn right onto Columbia Point Drive, destination will be through the (locked) gate and under the bridge (1 mi)
5. Marina next to the strategy location is at 660 Columbia Point Drive, 99352

# Columbia Point Marine Park

M-336.4R

**Position - Location:** 46° 15.911', -119° 15.038'      46° 15' 54.7", -119° 15' 2.3"      46.26518, -119.25063      Richland

**Strategy Objective:** Exclusion : Keep oil out of marine park

**Implementation:** Use 200' of boom to divert oil away from boat launch opening and deploy 200' of boom to close off the opening on the NW end of marine park to exclude oil from entering (you may be able to use existing anchor posts here). Adjust angle of boom, placement & number of anchors according to conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-M-336.4R/Columbia Pt Marine Park - huge parking lot & all amenities

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

**Field Notes:** Launch on site at BL-M-336.4R/Columbia Pt Marine Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Marina, Recreational Boating, Waterfowl and Salmonid Concentrations and Habitat



## Recommended Equipment

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

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



M-336.4R Photo: Facing berm at the boat launch opening of Columbia Point Marine Park



## Site Contact

**City of Richland Parks and Recreation Department**  
Primary Contact : Manages this boat launch

Richland, WA 99352  
509-942-7529

## Nearest Address

660 Columbia Point Drive  
Richland, WA 99352

## Driving Directions

1. Start at Hwy 12 Pasco, WA 99301
2. Go west on I-182 (US-12 W) toward 12a (6.89 miles)
3. At exit 5B take ramp on the right to Geo. Washington Way (0.61 miles)
4. Continue on WA-240-BR (George Washington Way) (0.2 miles)
5. Turn right on Columbia Point Dr (0.97 miles)
6. Finish at 660 Columbia Point Drive, 99352, on the left

# South end of Howard Amon Park

M-337.3R

**Position - Location:** 46° 16.306', -119° 16.075'      46° 16' 18.4", -119° 16' 4.5"      46.27177, -119.26791      Richland

**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, & quantity and placement of anchors based on conditions of the day. Also deploy 400' of deflection boom from the pier north of the collection point to keep oil off park lands.

**Staging Area:** Onsite : Stage on site, area has a large gravel parking area and an abandoned boat launch

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

**Field Notes:** BL-M-337.8R/Howard Ammon Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Downstream Resources, Recreational Shoreline Area, Waterfowl and Shorebird Concentrations



### Recommended Equipment

8 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1200 Feet	Boom - B2 (Contractor Boom) or equivalent
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



M-337.3R Photo: Southern most anchor point (AP-1)



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

400 Bradley Blvd  
 Richland, WA 99352

**Driving Directions**

1. Start at Hwy 12 Pasco, WA 99301
2. Go west on I-182 (US-12 W) toward 12a (6.89 miles)
3. At exit 5B take ramp on the right to Geo. Washington Way (0.61 miles)
4. Continue on WA-240-BR (George Washington Way) (0.45 miles)
5. Turn right on Comstock St (0.09 miles)
6. Turn left on Bradley Blvd (0.11 miles)
7. Turn into the parking lot at 400 Bradley Blvd on the left, go to the back of the lot by the water where you will the site location at an abandoned boat ramp.



# Howard Ammon Park

M-337.8R

**Position - Location:** 46° 16.844', -119° 16.259' 46° 16' 50.7", -119° 16' 15.5" 46.28074, -119.27099 Richland

**Strategy Objective:** Collection : Collect oil that is moving downstream. Keep oil off of park shoreline.

**Implementation:** Anchor 1000' of boom to shore just north of the boat launch and tow to the NE to divert oil towards shore for collection. Adjust angle of boom, & quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : SA-M-337.8R/Howard Ammon Park

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

**Field Notes:** BL-M-337.8R/Howard Ammon Park

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

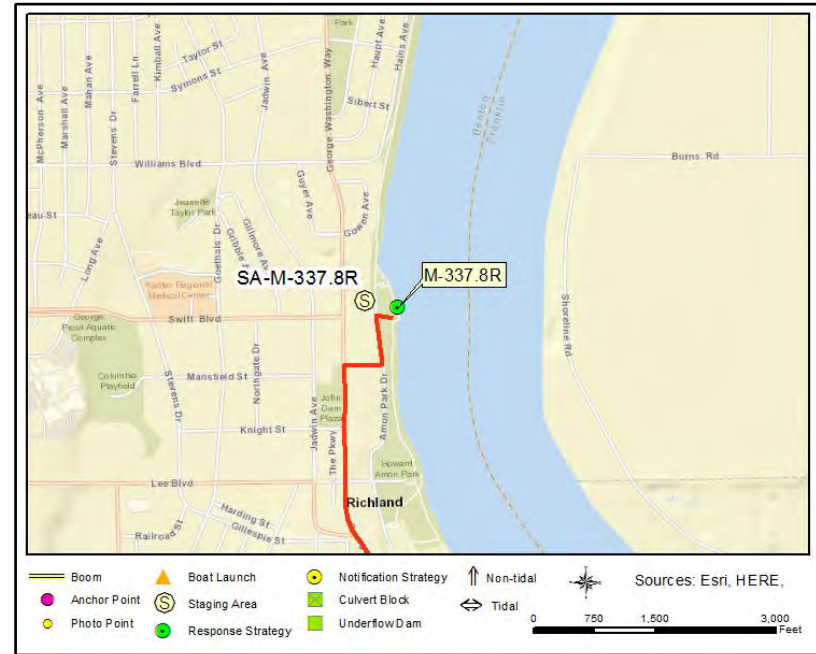
7 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1600 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
4	Laborer
1	Supervisor



M-337.8R Photo: View of the southern most shoreside anchoring spot for M-337.8R



### Site Contact

**City of Richland Parks and Recreation Department**  
Primary Contact : Manages this boat launch

Richland, WA 99352  
509-942-7529

### Nearest Address

900 Amon Park Road North  
Richland, WA 99352

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton  
Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (1.8 mi)
4. Turn right onto Newton St (486 ft)
5. Take the 1st left onto Amon Park Rd N, destination will be on the right (0.1 mi)

# USACE land, Burns family dock

M-338.2L

**Position - Location:** 46° 17.130', -119° 15.772'      46° 17' 7.8", -119° 15' 46.3"      46.28550, -119.26287      Pasco

**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, & quantity and placement of anchors based on conditions of the day.

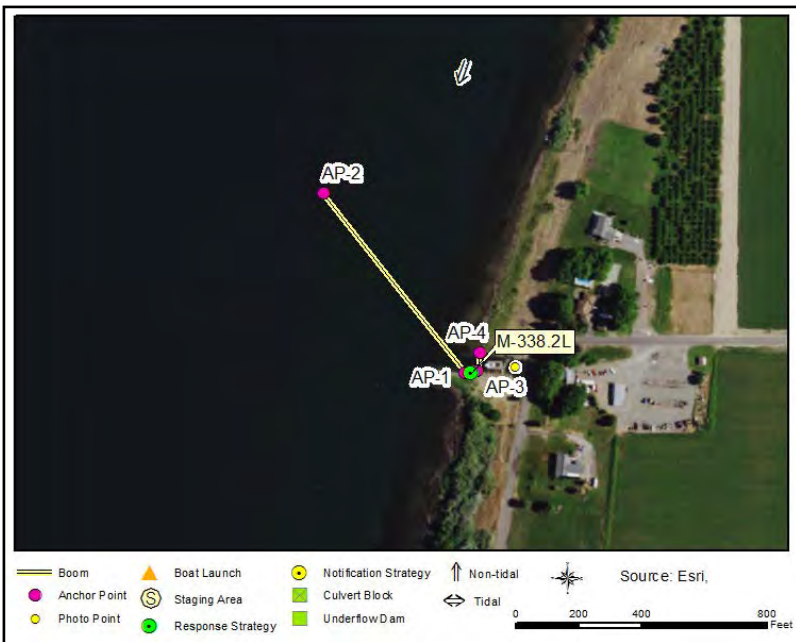
**Staging Area:** Onsite : Stage on site, owned by USACE, leased by the Burn's family (who live across the street). Dock/equipment private

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

**Field Notes:** Boat launch on site

**Watercourse:** River - Above a Dam - McNary Pool

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



### Recommended Equipment

4	Each	Anchor - Danforth (or other appropriate type)
3	Each	Anchoring System(s)- Shoreside
800	Feet	Boom - B2 (Contractor Boom) or equivalent
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



M-338.2L Photo: Collection strategy at USACE boat launch & Burn's dock



**Site Contact**

**USACE Ice Harbor pool**  
 Primary Contact : Tri-Rivers Natural Resources Management Office

Ice Harbor Dam, WA  
 509-547-2048

**Nearest Address**

13000 Shoreline Drive  
 Pasco, WA 99301

**Driving Directions**

1. Start at Hwy 12 Pasco, WA 99301
2. Go west on I-182 (US-12 W) toward 12a (4.59 miles)
3. At exit 7 take ramp on the right to Broadmoor Blvd (0.35 miles)
4. Turn right on Broadmoor Blvd (0.09 miles)
5. Turn left on Harris Rd (2.16 miles)
6. Continue on Shoreline Rd (1.8 miles)
7. Finish at the intersection of Dent Rd & Shoreline Drive, 99301, on the left.

# Leslie Groves Park

M-340.3R

**Position - Location:** 46° 18.983', -119° 15.603'      46° 18' 59.0", -119° 15' 36.2"      46.31639, -119.26006      Richland

**Strategy Objective:** Deflection : Collect oil that is moving downstream. Keep oil from reaching water intake facility.

**Implementation:** Use 800' of boom to divert oil towards shore for collection & 300' of boom to deflect it away from the water intake facility. Adjust angle of boom, & quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : SA-M-340.3R/Leslie Groves Park

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

**Field Notes:** BL-M-340.3R/Leslie Groves Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Boat Launch/Ramp, Downstream Resources, Recreational Shoreline Area, Water Intakes, Waterfowl and Shorebird Concentrations



### Recommended Equipment

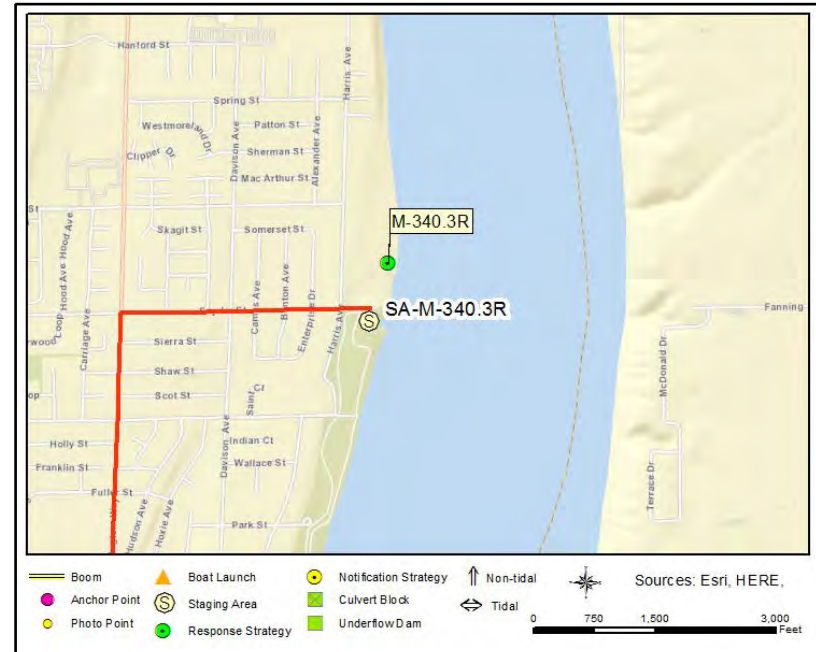
5 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
1000 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
4	Laborer
1	Supervisor



M-340.3R Photo: View of shoreline from the road at the strategy location



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

2 Snyder Street  
 Richland, WA 99354

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (4.3 mi)
4. Turn right onto Snyder St (0.6 mi)
5. Turn right into the parking lot of the Leslie Groves Park boat launch

# Selph Landing

M-340.7L

**Position - Location:** 46° 19.265', -119° 14.929'      46° 19' 15.9", -119° 14' 55.7"      46.32108, -119.24881      Pasco

**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, & quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : SA-M-340.7L/Selph Landing, lots of parking along gravel road

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

**Field Notes:** Launch onsite at BL-M-340.7L/Selph Landing

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Downstream Resources, Waterfowl and Shorebird Concentrations



### Recommended Equipment

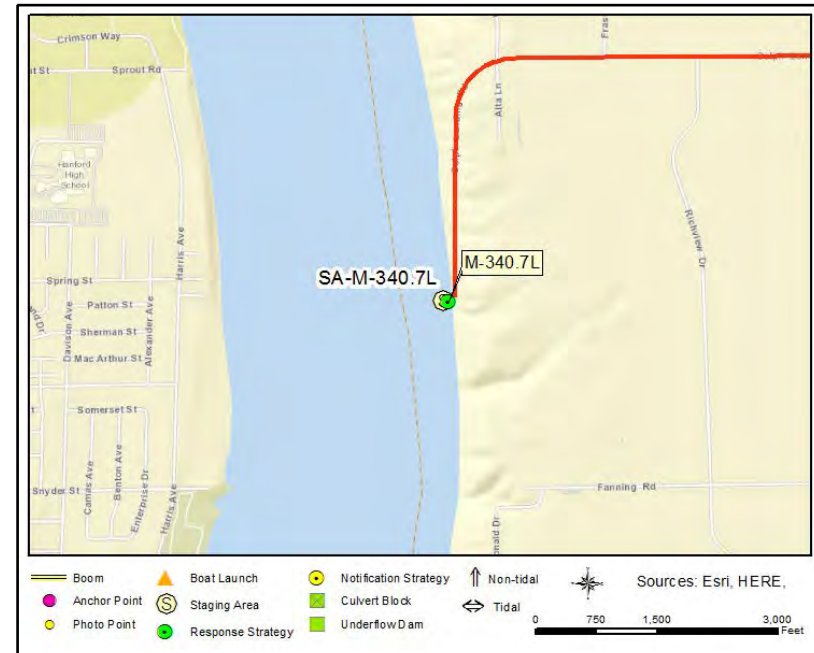
4	Each	Anchor - Danforth (or other appropriate type)
1	Each	Anchoring System(s)- Shoreside
800	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Vac Truck or Skimmer and Storage (if collection)
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-340.7L Photo: Looking upstream from Selph Landing toward where collection boom is to be placed



### Site Contact

**USACE Ice Harbor pool**  
 Primary Contact : Tri-Rivers Natural Resources Management Office

Ice Harbor Dam, WA  
 509-547-2048

### Nearest Address

10099 Selph Landing Road  
 Pasco, WA 99301

### Driving Directions

1. Start at I 182 in Pasco
2. Go west on I-182 (US-12 W) (4.4 miles)
3. At exit 9 take ramp on the right to Road 68 (0.48 miles)
4. Turn right on N Road 68 (1.29 miles)
5. Continue on Taylor Flats Rd (1.04 miles)
6. Turn left on Columbia River Rd (2.53 miles)
7. Bear left on Selph Landing Rd (1.56 miles)
8. Finish at 10099 Selph Landing Road, 99301, on the left



# Port of Benton C-Ave Docking Area

M-342.8R

**Position - Location:** 46° 20.916', -119° 15.994'      46° 20' 55.0", -119° 15' 59.6"      46.34860, -119.26657      Richland

**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 : Gated off landing area - with paved parking (Call Port of Benton for access but bring bolt cutters)

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

**Field Notes:** Use BL-M-340.3R/Leslie Groves Park

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Critical Waterfowl, Shorebird Nesting, and Brooding Area, Great Blue Heron Rookeries, Waterfowl and Shorebird Concentrations



## Recommended Equipment

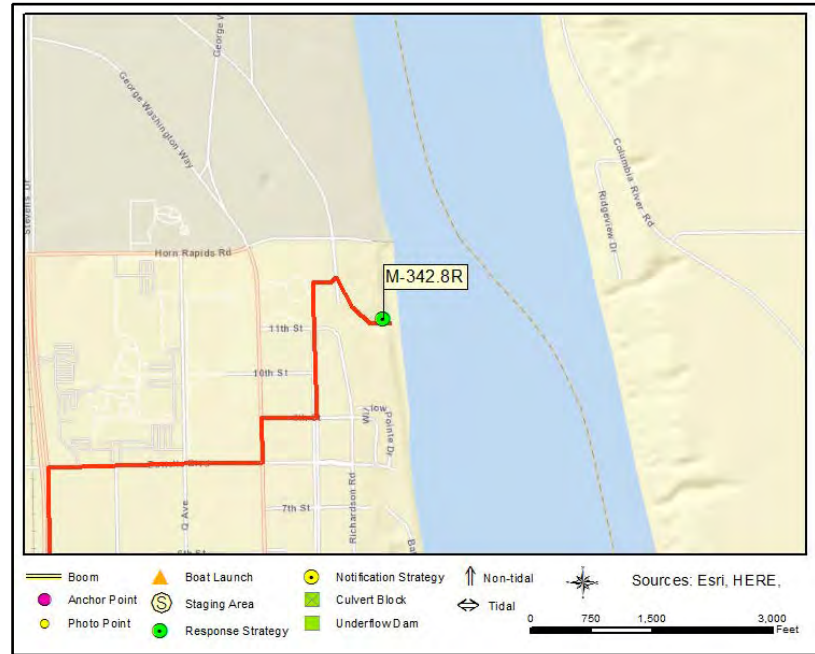
4 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Vac Truck or Skimmer and Storage (if collection)
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



M-342.8R Photo: Port of Benton docking area



**Site Contact**

**Port of Benton**

Primary Contact : Manages boat launches  
 3100 George Washington Way  
 Richland, WA 99354  
 509-375-3060

**Nearest Address**

3110 Port of Benton Blvd  
 Richland, WA 99354

**Driving Directions**

1. From I-182 W/ US12 W toward Kennewick/ Richland/ Yakima, take exit 6B to merge onto George Washington Way (6.7 mi)
2. Turn right onto 11th (0.1 mi)
3. Turn left onto Port of Benton Blvd (0.1 mi)
4. Turn right on the gravel road just past the USS Triton Submarine Memorial Park (335 ft)
5. Turn right again to get to the old boat launch (0.1 mi)

## Second inlet below railroad bridge

MSN-0.8M

**Position - Location:** 46° 11.955', -119° 1.582'      46° 11' 57.3", -119° 1' 34.9"      46.19925, -119.02636      Pasco

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

**Implementation:** Deploy 1000' of boom, anchor gravel beach at 46.19928 N, -119.026483 W, and one on the W side of the island to the south, has a sandy gravel beach also. Adjust angle of boom, number & placement of anchors according to conditions of the day. Bring waders to access beach.

**Staging Area:** Remote : Stage at SA-MSN-1R/Sacajawea State Park, Call Park Manager at 509-366-5180

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

**Field Notes:** Launch at BL-MSN-1R/Sacajawea State Park

**Watercourse:** River - Below a Dam - Snake River below the Ice Harbor Dam at the confluence with the Columbia River in the McNary pool

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



### Recommended Equipment

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

### Recommended Personnel

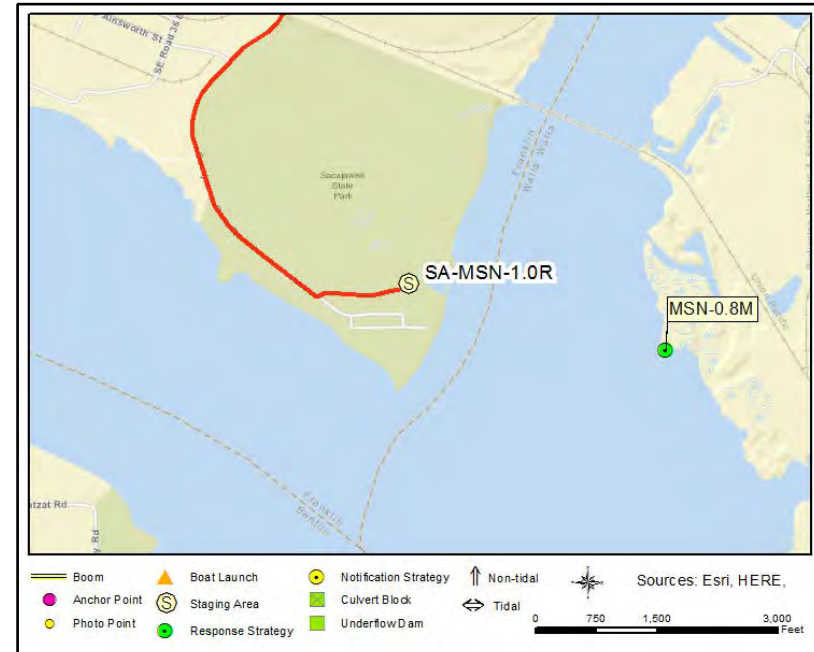
1	Boat Operator
4	Laborer
1	Supervisor

## Second inlet below railroad bridge

MSN-0.8M



MSN-0.8M Photo: View of beach at N anchor point



### Site Contact

**Sacajawea State Park**  
Primary Contact : Park Ranger  
2503 Sacajawea Park Road  
Pasco, WA  
509-545-2361

### Nearest Address

2503 Sacajawea Park Road  
Pasco, WA 99301

### Driving Directions

1. Directions to SA-MSN-1R/Sacajawea State Park, starting in Pasco, WA, go south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA 99301

# Sacajawea Historical State Park (Snake River)

MSN-1.0R

**Position - Location:** 46° 12.105', -119° 2.201'      46° 12' 6.3", -119° 2' 12.1"      46.20175, -119.03669      Pasco

**Strategy Objective:** Collection : Collect oil moving downriver on the Snake River towards the Columbia River.

**Implementation:** Using workboat, deploy 900ft boom near boat basin entrance at anchor point B. Then extend 600ft boom northeast and secure end near anchor point A. Place 300ft boom parallel to riverbank and set anchor point C. Use anchoring systems as needed to keep boom secure. Adjust boom angle and anchor points as needed for conditions. Use existing structures or trees to secure boom to riverbank. Limit ground-penetrating activities.

**Staging Area:** Onsite: Stage equipment onsite.

**Site Safety:** Water hazard; Slips, trips & falls; Uneven terrain; Vessel traffic

**Field Notes:** Notify park before deployment (509-545-2361).

**Watercourse:** River - Below a Dam - Snake River

**Resources at Risk:** Salmonids, Sensitive Resources, State Park, Waterfowl



## Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
900 Feet	Boom - B3 (River Boom) or equivalent
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



MSN-1.0R Photo: From basin entrance, looking northeast/upriver towards US-12 bridge.



### Site Contact

**Washington Parks and Rec Commission**  
Land/Property Contact : Sacajawea Historical State Park  
2503 Sacajawea Park Road  
Pasco, WA 99301  
509-545-2361

### Nearest Address

2503 Sacajawea Park Rd  
Pasco, WA 99301

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla
3. Turn right onto Sacajawea Park Rd
4. Turn left into the park
5. Location is at the end of the road

# Schnitzer Steel

# MSN-1.55L

**Position - Location:** 46° 12.404', -119° 1.608'      46° 12' 24.3", -119° 1' 36.5"      46.20674, -119.02680      Burbank

**Strategy Objective:** Exclusion : Keep oil out of wetlands behind Schnitzer Steel

**Implementation:** Deploy 300' of boom by boat. Anchor boom to the SW corner of the Schnitzer Steel retaining wall, and downstream anchor to the ground at the base of the railroad bridge piling closest to shore. Boom should block the inlet. Adjust placement and number of anchors according to conditions of the day.

**Staging Area:** Remote : Stage out of SA-MSN-2.2L Grain Terminal Road

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

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Launch at Grain Terminal Rd boat launch, beware of shallow water.

**Watercourse:** River - Below a Dam - Snake River below the Ice Harbor Dam but in the McNary pool

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



## Recommended Equipment

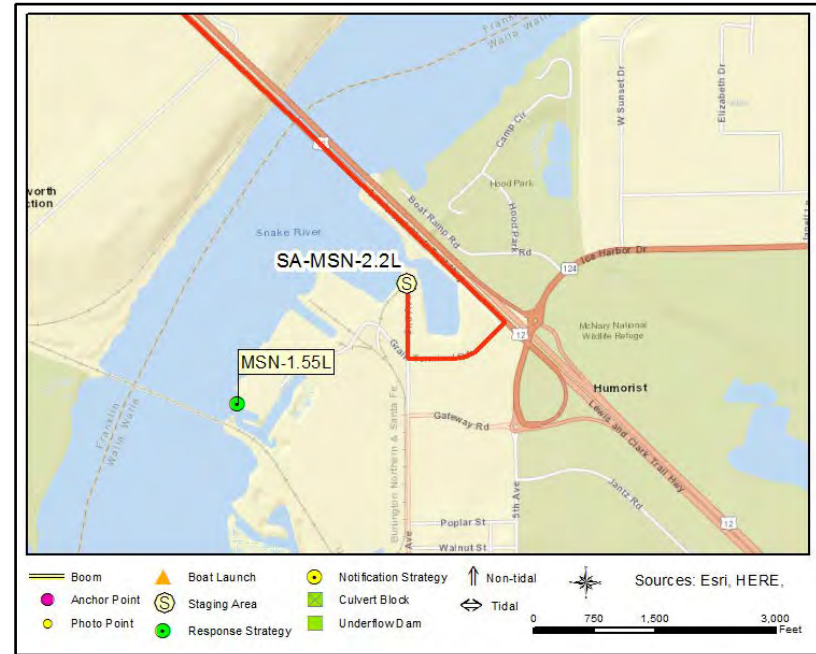
1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



MSN-1.55L Photo: Schnitzer Steel scrap yard inlet to wetlands



**Site Contact**

**USACE Ice Harbor pool**

Primary Contact : Tri-Rivers Natural Resources Management Office  
509-547-2048

**BNSF Railroad**

Emergency Contact : Service Interruption Desk  
817-352-2832

**Nearest Address**

577 S 2nd Street  
Burbank, WA 99323

**Driving Directions**

1. Directions to SA-MSN-2.2L/Grain Terminal Rd. Starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (3.79 miles)
7. Turn right on Grain Terminal Rd (0.26 miles)
8. Turn right on 2nd Ave (0.2 miles)
9. Finish at Grain Terminal Road USACE boat launch on the right.



# Railroad Bridge North of Sacajawea State Park

MSN-1.56R

**Position - Location:** 46° 12.533', -119° 1.915'      46° 12' 32.0", -119° 1' 54.9"      46.20888, -119.03191      Pasco

**Strategy Objective:** Deflection : Keep oil away from park south of bridge.

**Implementation:** Using workboat, secure 900ft boom to riverbank near anchor point A. Extend boom south to the bridge, securing the remaining end to the first piling (anchor point B). Use anchoring systems as needed to keep boom secure. Adjust boom angle and anchor points as needed for conditions. Use anchor posts, existing structures, or trees to secure boom to riverbank.

**Staging Area:** Remote: Stage at Sacajawea State Park SA-MSN-1R.

**Site Safety:** Slips, Trips, Falls; Water Hazard; Active Railroad (both directions); Heavy Vegetation

**Field Notes:** Notify park before deployment (509-545-2361). Also, call BNSF (817-352-2832) and coordinate with On-Call Hazmat Manager. Road on BNSF property provides better access to riverbank.

**Watercourse:** River - Below a Dam - Snake River (McNary Pool) below Ice Harbor Dam

**Resources at Risk:** Salmonids, Sensitive Resources, State Park, Waterfowl



## Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
900 Feet	Boom - B2 (18" to 42")
1 Each	Bridle(s) - Piling (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



MSN-1.56R Photo: From the middle of the Snake River, looking northwest towards the response strategy (downriver is left). Photo was taken in May 2017.



### Site Contact

#### Washington Parks and Rec Commission

Land/Property Contact : Sacajawea Historical State Park  
509-545-2361

#### BNSF Railroad

Land/Property Owner : Service Interruption Desk  
817-352-2832

### Nearest Address

2503 Sacajawea Park Road  
Pasco, WA 99301

### Driving Directions

TO STAGING AREA/BOAT LAUNCH MSN-1.0R:

1. Start at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (2.07 miles)
7. Make sharp right on E A St (0.28 miles)
8. Turn left on S Road 40 E (1 miles)
9. Bear right (0.02 miles)
10. Bear right on Sacajawea Park Rd (1 mile)
11. Take the first left after entering the park and then an immediate right toward the boat launch/staging area (0.4 mi). Finish at 2503 Sacajawea Park Road, 99301

# Tesoro Pasco Terminal

MSN-2.0R

**Position - Location:** 46° 12.817', -119° 1.687'      46° 12' 49.0", -119° 1' 41.2"      46.21362, -119.02812      Pasco

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

**Implementation:** Do not deploy! The Northwest Area Committee recommends that this response strategy be removed from the GRP. / Anchor 1000' of boom to the Tesoro dock by their boat launch, run the boom out to the NE and anchor with 500' of line and a bridle to the bridge piling. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite: Must contact Tesoro for access to property. They have a boat and boom on site.

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

**Field Notes:** Launch onsite. Tesoro staff should deploy this strategy and have the boat and boom onsite.

**Watercourse:** River - Below a Dam - Snake River below the Ice Harbor Dam but in the McNary pool

**Resources at Risk:** Economic 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) - Piling (appropriately sized for boom)
500 Feet	Line - 3/8" poly line
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

# Tesoro Pasco Terminal

# MSN-2.0R



MSN-2.0R Photo: View from the Tesoro dock toward the bridge



## Site Contact

### Tesoro, Pasco Facility

Pre-Notification Required : Contingency Plan Holder  
2900 Sacajawea Park Rd  
Pasco, WA 99301  
509-543-6100

## Nearest Address

2900 Sacajawea Park Rd  
Pasco, WA 99301

## Driving Directions

1. Directions to Tesoro's Pasco facility starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (4 miles)
7. Turn right on Sacajawea Park Rd (2 miles)
8. Finish at 2900 Sacajawea Park Rd, 99301, on the right

# Grain Terminal

# MSN-2.1L

**Position - Location:** 46° 12.823', -119° 1.236'      46° 12' 49.4", -119° 1' 14.2"      46.21371, -119.02061      Burbank

**Strategy Objective:** Exclusion : Keep oil out of Grain Terminal bay while keeping area open for boats (BL-MSN-2.2L)

**Implementation:** Deploy 600' of boom from the base of the Hwy 12 bridge on river left running to the SW, and another 500' of boom parallel to it from the riverbank directly opposite, just downstream on river left, running to the NE. Leave enough room between the two booms (where they overlap) so that boats safely navigate through (beware of shallow water). Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day. Waders may be needed for deployment of boom or anchors.

**Staging Area:** Remote : Stage at SA-MSN-2.2L/Grain Terminal in the parking area near the launch ramp.

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

**Field Notes:** Launch from BL-MSN-2.2L/Grain Terminal

**Watercourse:** River - Below a Dam - Snake River below Ice Harbor Dam but in the McNary pool

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



## Recommended Equipment

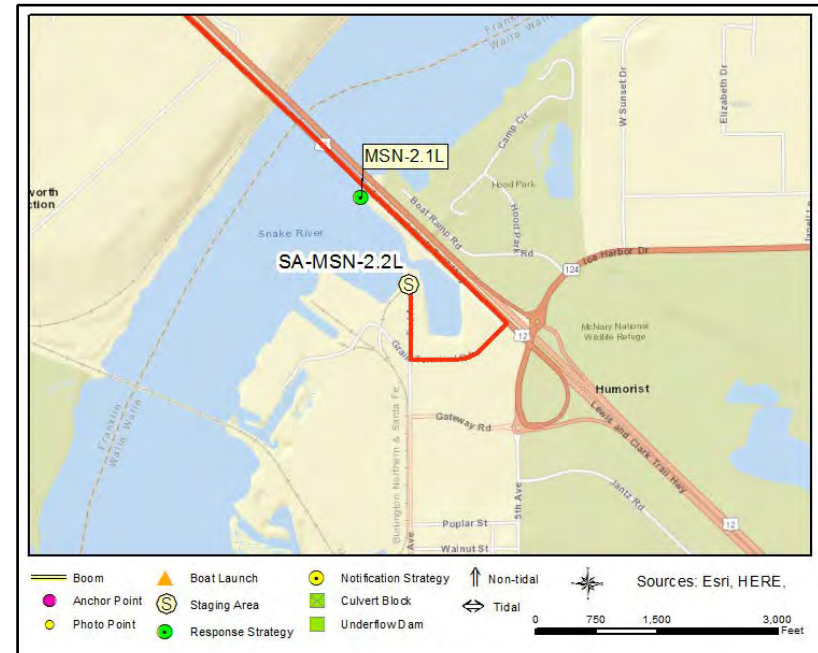
5 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1100 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1 Boat Operator
4 Laborer
1 Supervisor



MSN-2.1L Photo: Bridge beside the grain terminal



**Site Contact**

**Nearest Address**

577 S 2nd Street  
Burbank, WA 99323

**Driving Directions**

1. Directions to SA-MSN-2.2L/Grain Terminal Rd., starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (3.79 miles)
7. Turn right on Grain Terminal Rd (0.26 miles)
8. Turn right on 2nd Ave (0.2 miles)
9. Finish at Grain Terminal Rd. USACE boat launch on the right

# Hood Park North

# MSN-2.8L

**Position - Location:** 46° 13.152', -119° .605'      46° 13' 9.1", -119° 0' 36.3"      46.21920, -119.01008      Burbank

**Strategy Objective:** Deflection : Keep oil off of Hood Park Shoreline

**Implementation:** Deploy 1000' of boom from the northern most part of the park shoreline, run the boom out to the west toward river center. Adjust angle of boom, as well as quantity and placement of anchors, based on conditions of the day.

**Staging Area:** Onsite : Stage on site at SA-MSN-2.3L/Hood Park. Can drive boom close to the onshore anchoring spot if no campers nearby.

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

**Field Notes:** Launch on site at BL-MSN-2.3L/Hood Park

**Watercourse:** River - Below a Dam - Snake River below Ice Harbor Dam but in the McNary pool

**Resources at Risk:** Recreational Shoreline Area, Sensitive Resources, USACE Management 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	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1 Boat Operator
4 Laborer
1 Supervisor



MSN-2.8L Photo: Hood Park shoreline



### Site Contact

### Nearest Address

100 Hood Park Rd  
Burbank, WA 99323

### Driving Directions

1. Driving directions to SA-MSN-2.3L/Hood Park, starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (3.79 miles)
7. Turn left (0.02 miles)
8. Continue on WA-124 (Ice Harbor Dr) (0.05 miles)
9. Make sharp left on Hood Park Rd (0.12 miles)
10. Turn left on Boat Launch Road (0.2 miles)
11. Finish at 100 Hood Park Rd, 99323



# Tidewater's Pasco Facility

MSN-2.9R

**Position - Location:** 46° 13.490', -119° .728'      46° 13' 29.4", -119° 0' 43.7"      46.22483, -119.01213      Pasco

**Strategy Objective:** Deflection : Keep oil moving downstream away from Tidewater facility & oil moving upstream away from Strawberry Island

**Implementation:** Deploy 600' of boom from the NE corner of the Tidewater property toward the SE. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Contact Tidewater facility and wear appropriate PPE to access site

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

**Field Notes:** Tidewater staff may implement strategy with their own boat & boom, if not use Hood Park BL-MSN-2.3L

**Watercourse:** River - Below a Dam - McNary Pool of the Snake River

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



### Recommended Equipment

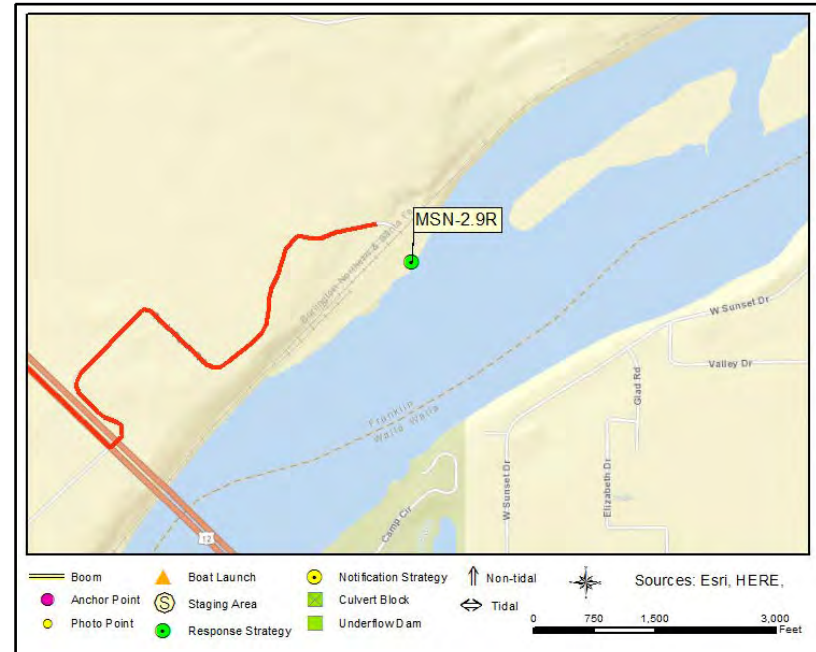
3 Each	Anchor - Danforth (or other appropriate type)
1 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



MSN-2.9R Photo: View of shoreline anchor point looking east toward Strawberry Island



### Site Contact

#### Tidewater, Pasco Facility

Land/Property Contact : Contingency Plan Holder  
 671 Tank Farm Road  
 Pasco, WA 99301  
 509-547-7701

### Nearest Address

671 Tank Farm Road  
 Pasco, WA 99301

### Driving Directions

1. Directions to Tidewater's Pasco facility starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (2.87 miles)
7. Turn left on Sacajawea Park Rd (0.02 miles)
8. Continue on Tank Farm Rd (1.22 miles)
9. Finish at 671 Tank Farm Road, 99301, on the right. Call through intercome box at 2nd gate for access.

# Strawberry Island (Part of McNary Wildlife Refuge)

MSN-4.0M

**Position - Location:** 46° 13.733', -118° 59.690"      46° 13' 44.0", -118° 59' 41.4"      46.22888, -118.99483      Burbank

**Strategy Objective:** Exclusion : Keep oil off of the Strawberry Island shoreline

**Implementation:** Deploy 700' of boom between N shore of channel bisecting Strawberry Island and the jetty. Adjust quantity and placement of anchors based on conditions of the day. Deploy 100' of boom between each the jetty and the offshore berm to the west of it. Deploy 100' of boom between each of the other 4 offshore berms a total of five 100' sections. May need waders to access the berms depending on water level.

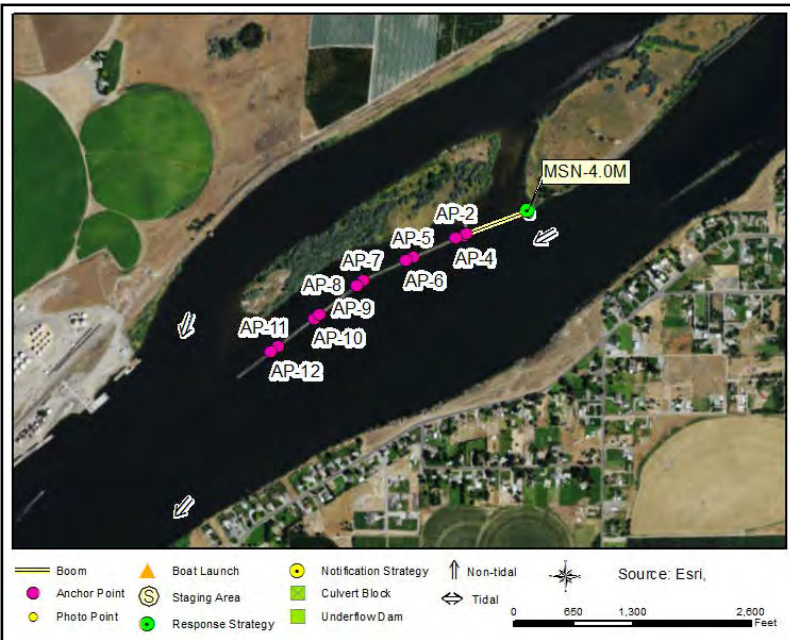
**Staging Area:** Remote : Stage at SA-MSN-2.3L/Hood Park

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

**Field Notes:** Launch at BL-MSN-2.3L/Hood Park

**Watercourse:** River - Below a Dam - Snake River below Ice Harbor Dam in the McNary Pool

**Resources at Risk:** Great Blue Heron, State Protected Area/Lands, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat, Wildlife Refuge



## Recommended Equipment

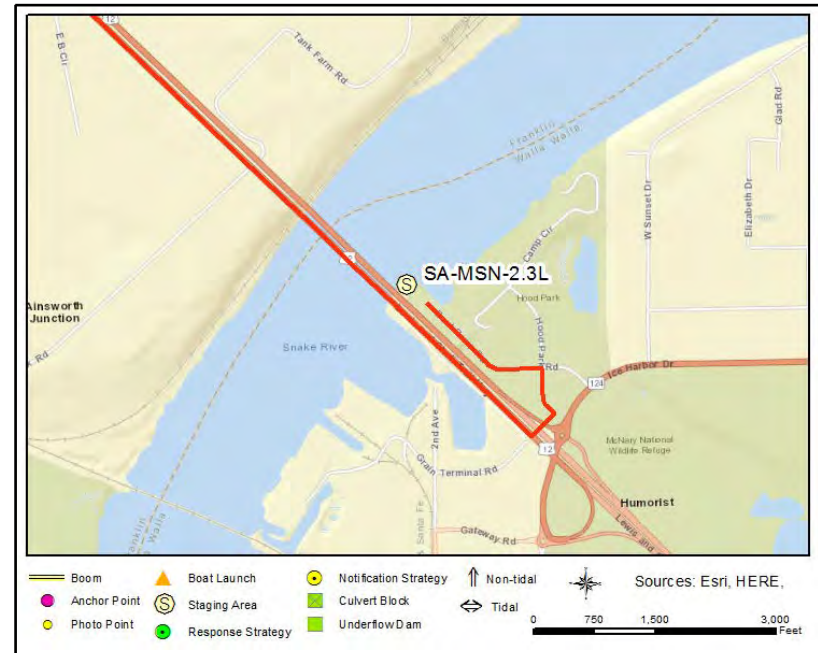
3 Each	Anchor - Danforth (or other appropriate type)
12 Each	Anchoring System(s)- Shoreside
1200 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1 Boat Operator
4 Laborer
1 Supervisor



MSN-4.0M Photo: Aerial view of Strawberry Island south side offshore berms



**Site Contact**

**USACE Ice Harbor pool**  
 Primary Contact : Tri-Rivers Natural Resources Management Office

Ice Harbor Dam, WA  
 509-547-2048

**Nearest Address**

100 Hood Park Road  
 Burbank, WA 99323

**Driving Directions**

1. Start at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (3.79 miles)
7. Turn left (0.02 miles)
8. Continue on WA-124 (Ice Harbor Dr) (0.05 miles)
9. Make sharp left on Hood Park Rd (0.12 miles)
10. Turn left to onto Boat Ramp Rd (0.2 miles)
11. Finish at 100 Hood Park Rd, 99323

# Pumping Plant Rd

MSN-4.5L

**Position - Location:** 46° 13.943', -118° 58.896'      46° 13' 56.6", -118° 58' 53.7"      46.23239, -118.98160      Burbank

**Strategy Objective:** Exclusion : Collect oil moving downstream while keeping oil away from water intake facility

**Implementation:** Deploy 1000' of boom from shore at the end of Pumping Plant Rd out toward the NE tip of Strawberry Island. Deploy 200' of boom in a chevron configuration in front of water intake facility. Adjust angle of boom, placement & number of anchors depending on conditions of the day.

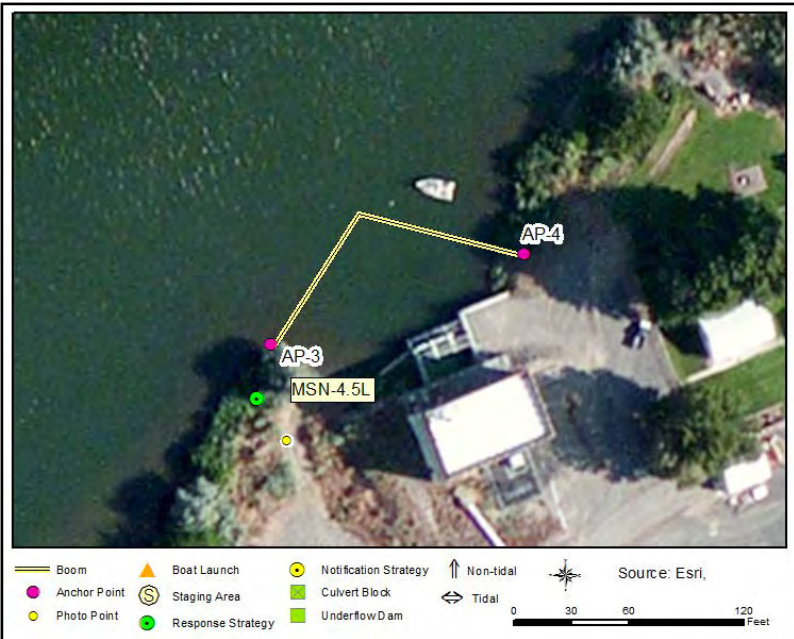
**Staging Area:** Onsite : Stage onsite next to water intake facility. Room for several vehicles, boom, and other equipment.

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

**Field Notes:** Launch from BL-MSN-2.3L/Hood Park

**Watercourse:** River - Below a Dam - McNary Pool of the Snake River

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



### Recommended Equipment

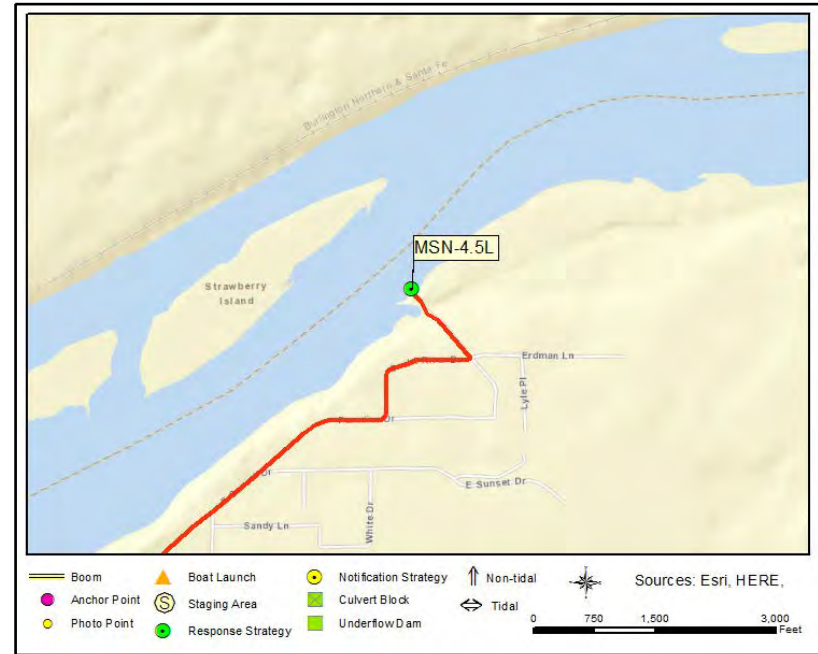
1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



MSN-4.5L Photo: Picture of water intake.



**Site Contact**

**Nearest Address**

100 Pumping Plant Rd  
Burbank, WA 99323

**Driving Directions**

1. Start at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (3.79 miles)
7. Turn left (0.02 miles)
8. Continue on WA-124 (Ice Harbor Dr) (0.3 miles)
9. Turn left on W Sunset Dr (1.53 miles)
10. Continue on Paradise Dr (0.33 miles)
11. Bear left on Snake River Dr (0.32 miles)
12. Make sharp left on Pumping Plant Rd (0.1miles)
13. Finish at 100 Pumping Plant Rd, 99323, on the right

# N tip of Strawberry Island

MSN-4.6M

**Position - Location:** 46° 14.168', -118° 58.964'      46° 14' 10.1", -118° 58' 57.9"      46.23614, -118.98274      Burbank

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

**Implementation:** Run 900' of exclusion boom between river right and the N tip of Strawberry Island & 800' of deflection boom from the N tip of the island toward the SSE. Bring waders if water is shallow to take boom into shore to anchor. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

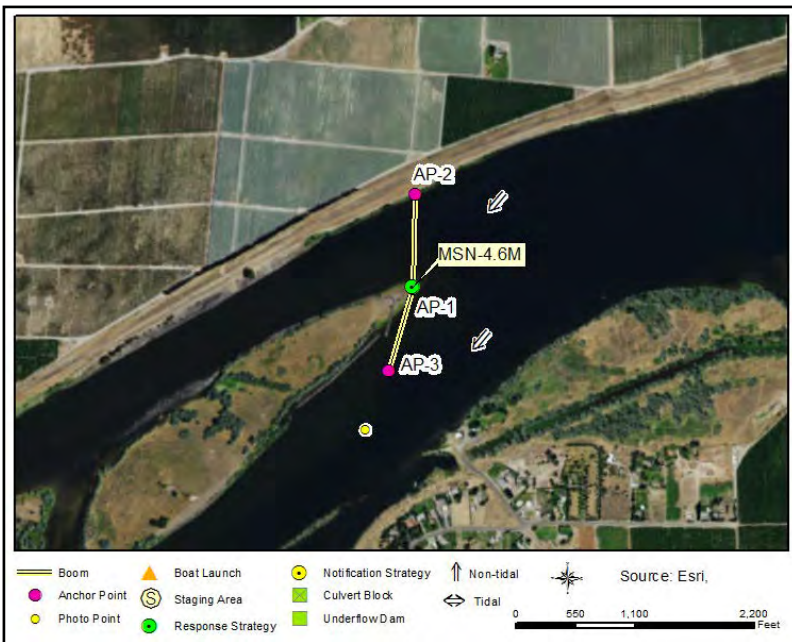
**Staging Area:** Remote : Stage at SA-MSN-2.3L/Hood Park

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

**Field Notes:** Launch from BL-MSN-2.3L/Hood Park

**Watercourse:** River - Below a Dam - McNary Pool of the Snake River

**Resources at Risk:** Great Blue Heron, Migratory Waterfowl, Riparian Habitat, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat



### Recommended Equipment

8 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
1700 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

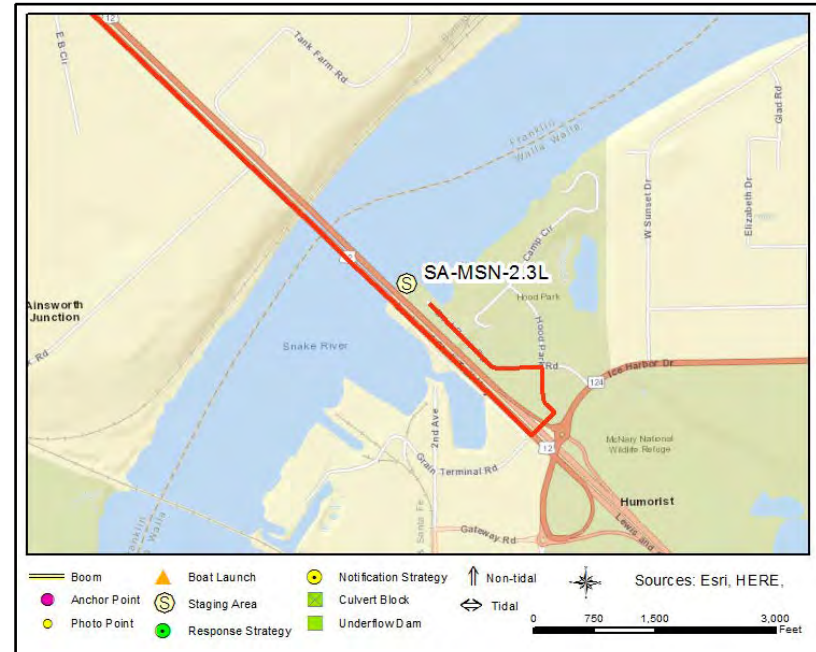
1 Boat Operator
4 Laborer
1 Supervisor

# N tip of Strawberry Island

MSN-4.6M



MSN-4.6M Photo: Aerial view of Strawberry Island



## Site Contact

### USACE Ice Harbor pool

Primary Contact : Tri-Rivers Natural Resources Management Office

Ice Harbor Dam, WA  
509-547-2048

## Nearest Address

100 Hood Park Road  
Burbank, WA 99323

## Driving Directions

1. From Pasco take US-395 S
2. Turn right onto N 20th Ave (0.3 mi)
3. Turn right to merge onto I-182 E/ US12 E toward Walla Walla (1.4 mi)
4. Continue onto US-12 E (5.0 mi)
5. Take the Washington 124 exit toward Burbank/ Waitsburg (0.2 mi)
6. Keep right at the fork and merge onto Ice Harbor Dr (0.3 mi)
7. Slight right to stay on Ice Harbor Dr (0.1 mi)
8. Turn left onto Hood Park Rd- go straight to the launch at the end (0.5 mi)



# Island off of Island View Rd

MSN-6.1L

**Position - Location:** 46° 14.217', -118° 57.244'      46° 14' 13.0", -118° 57' 14.6"      46.23695, -118.95406      Burbank

**Strategy Objective:** Exclusion : Exclusion, keep oil from entering channel off Island View Road

**Implementation:** Using workboat attach boom 1, an 800' length of boom to point A (46.2366, -118.949) upstream of pumps, then take to Point B (46.237, -118.952) at the eastern tip of the island. Anchor boom 2, a 200' length of boom from Pt C (46.237, -118.955) and take across channel to Pt D (46.237, -118.956). Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day.

**Staging Area:** Onsite : Gravel parking area where Island View Rd first meets the water (water intake facility)

**Site Safety:** Slips trips falls, slippery rocks, water hazard, thick vegetation, possible fast water if dam is spilling

**Field Notes:** Launch at BL-MSN-2.3L/Hood Park

**Watercourse:** River - Below a Dam - Snake River McNary Pool

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



## Recommended Equipment

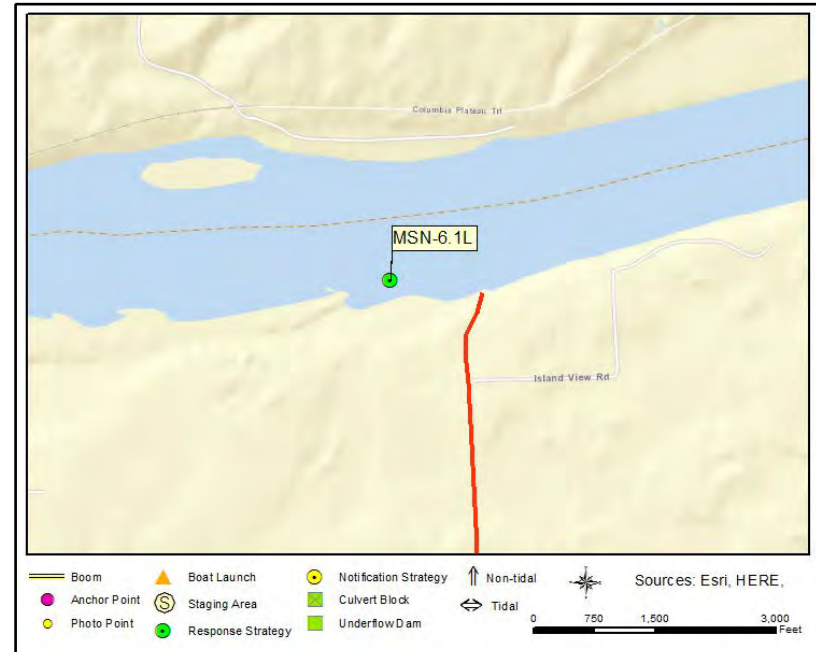
3	Each	Anchoring System(s) - (anchor, lines, floats)
4	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B3 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator/Supervisor
4	Laborer
1	Supervisor



MSN-6.1L Photo: Aerial view of island and parking lot at the end of Island View Rd



**Site Contact**

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager  
 541-922-2268

**USACE Ice Harbor pool**  
 Alternate Contact : Tri-Rivers Natural Resources Management Office  
 509-547-2048

**Nearest Address**

1998 Island View Rd  
 Burbank, WA 99323

**Driving Directions**

1. From Pasco, take US-395 S toward W Vineyard Dr (5.04 miles)
2. Bear right onto ramp to US-12 E toward Walla Walla / Lewiston (0.24 miles)
3. At fork keep left on US-12 E toward Walla Walla (4.63 miles)
4. Bear right onto ramp to WA-124 toward Burbank / Waitsburg (0.16 miles)
5. Turn right toward WA-124 / Waitsburg (0.24 miles)
6. Continue on WA-124 (0.03 miles)
7. Bear right toward Waitsburg (0.08 miles)
8. Bear right on Ice Harbor Dr (WA-124) (2.98 miles)
9. Turn left on Island View Rd (Watts Farm Rd) (1.98 miles)
10. Do not turn, go straight to finish at the parking area beside the river.

# SE of Goose Island

MSN-8.4L

**Position - Location:** 46° 14.606', -118° 54.236'      46° 14' 36.3", -118° 54' 14.1"      46.24343, -118.90393      Burbank

**Strategy Objective:** Collection : Collection, keep oil from moving downstream

**Implementation:** Using hand launch workboat, anchor 1000' of boom in a chevron formation, with boom anchored on shore at the collection point A (46.2434, -118.9026), then taken 400' to the WNW and anchored at point B (46.2346, -118.9045), the final 600' of boom is to go to the eastern tip of the island and be anchor at point C (46.2447, -118.903). Adjust angle of boom, quantity and placement of anchors, according to conditions of the day. May be able to hand launch a small boat at collection point, or deploy using waders if shallow water.

**Staging Area:** Onsite : Gravel road just west of the dam off of Monument Rd, room for vac truck and multiple vehicle parking

**Site Safety:** Slips trips falls, slippery rocks, water hazard, thick vegetation, possible fast water if dam is spilling

**Field Notes:** Site may have swift of shallow water depending on seasonality.

**Watercourse:** River - Below a Dam - Snake River McNary Pool

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



### Recommended Equipment

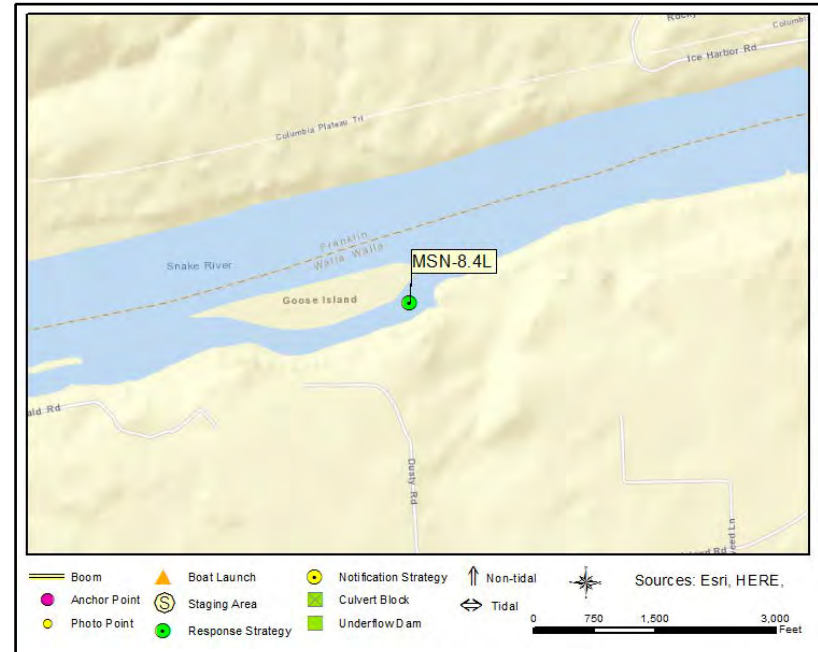
2	Each	Anchor - Danforth (or other appropriate type)
5	Each	Anchoring System(s)- Shoreside
1000	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - (hand-launch)

### Recommended Personnel

1	Boat Operator
4	Laborer
1	Supervisor



MSN-8.4L Photo: Aerial view of the E end of Goose Island and S shore of Snake River



### Site Contact

**USACE McNary pool**  
Alternate Contact : Natural Resource Manager  
541-922-2268

### Nearest Address

2763 Monument Dr.  
Burbank, WA 99323

### Driving Directions



# Goose Island

MSN-8.4M

**Position - Location:** 46° 14.713', -118° 54.202'      46° 14' 42.8", -118° 54' 12.1"      46.24522, -118.90336      Burbank

**Strategy Objective:** Deflection : Keep oil off of Goose Island shoreline

**Implementation:** Using workboat deploy 600' of boom from eastern tip of Goose Island at anchor point A (46.2449, -118.9028) then angle boom toward river right downstream and anchor at point B (46.245, -118.905). Will need waders to access shallow water around island. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day.

**Staging Area:** Remote : Stage at SA-MSN-2.3L/Hood Park

**Site Safety:** Slips trips falls, slippery rocks, water hazard, thick vegetation, possible fast water if dam is spilling

**Field Notes:** Launch from BL-MSN-2.3L/Hood Park

**Watercourse:** River - Below a Dam - McNary Pool of the Snake River

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



### Recommended Equipment

3 Each	Anchor - Danforth (or other appropriate type)
1 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



MSN-8.4M Photo: Aerial view of Goose Island



**Site Contact**

**USACE McNary pool**  
 Alternate Contact : Natural Resource Manager  
 541-922-2268

**Nearest Address**

100 Hood Park Road  
 Burbank, WA 99323

**Driving Directions**

Directions to STAGING AREA/BOAT LAUNCH SA/BL-MSN-2.3L/Hood Park

1. From Pasco take US-395 S
2. Turn right onto N 20th Ave (0.3 mi)
3. Turn right to merge onto I-182 E/ US12 E toward Walla Walla (1.4 mi)
4. Continue onto US-12 E (5.0 mi)
5. Take the Washington 124 exit toward Burbank/ Waitsburg (0.2 mi)
6. Keep right at the fork and merge onto Ice Harbor Dr (0.3 mi)
7. Slight right to stay on Ice Harbor Dr (0.1 mi)
8. Turn left onto Hood Park Rd- go straight to the launch at the end (0.5 mi)

# Ice Harbor Lock

MSN-9.5R

**Position - Location:** 46° 15.070', -118° 53.070'      46° 15' 4.2", -118° 53' 4.2"      46.25117, -118.88451      Pasco

**Strategy Objective:** Collection : Collect oil coming downstream to or through the Ice Harbor Lock

**Implementation:** Deploy a 300' section of boom on the downstream end of the lock, by running the boom from one side of the lock to the other angled from the SE toward the NW. Provide either a vac truck or skimmer and portable storage at the NW corner of the boom to collect oil. Adjust angle of boom, as well as quantity and placement of anchors based on conditions of the day. If unable to pass a boat through the lock the downstream boom can be deployed using a line throwing gun. Work with Dam Safety Staff to deploy a similar strategy on the upstream end of the Lock if needed. Adjust for conditions.

**Staging Area:** Remote : Stage from upstream SA-SIH-9.9R/Ice harbor. Contact Ice Harbor Dam Control prior to deploying strategy 509-547-778

**Site Safety:** Water hazard, road hazard, vessel traffic, lock and dam, heavy equipment, slips, trips & falls.

**Field Notes:** Launch from upstream BL-SIH-9.9R/Ice harbor

**Watercourse:** Other - Ice Harbor Lock & Dam

**Resources at Risk:** Downstream Resources, Lock and Dam

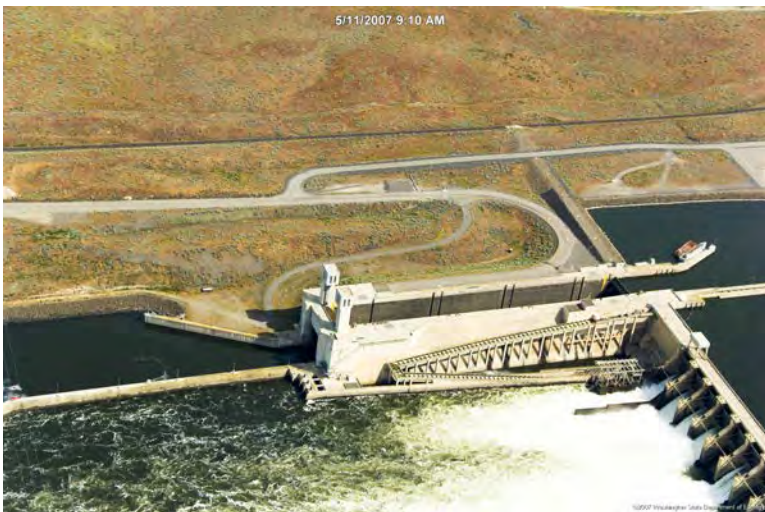


### Recommended Equipment

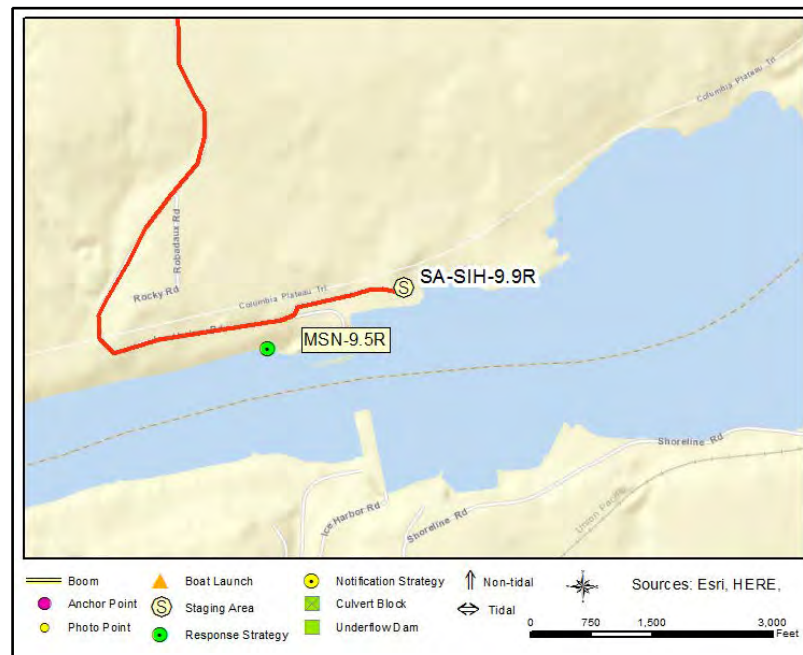
2	Each	Anchor - Danforth (or other appropriate type)
4	Each	Anchoring Post(s) - (shoreside)
300	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
200	Feet	Line - Small Stuff (< 3/8 inch)
1	Each	Line throwing gun(s) or device(s)
2	Each	Vac Truck or 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



MSN-9.5R Photo: Aerial view of the Ice Harbor Lock



### Site Contact

#### USACE Ice Harbor pool

Emergency Contact : Tri-Rivers Natural Resources Management Office  
509-547-2048

### Nearest Address

1240 Ice Harbor Rd  
Pasco, WA 99301

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (1.7 mi)
3. Take the exit toward Kahlotus (0.4 mi)
4. Turn right onto E Lewis St (0.2 mi)
5. Continue onto Pasco Kahlotus Rd (8.9 mi)
6. Turn right onto Ice Harbor Rd, destination will be on the left (3.1 mi)



# Madame Dorion Memorial Park (M-314.7L)

WWR-4.0R

**Position - Location:** 46° 3.749', -118° 54.178'      46° 3' 44.9", -118° 54' 10.7"      46.06248, -118.90297      Touchet

**Strategy Objective:** Collection : Collect oil moving downstream on Walla Walla River.

**Implementation:** Anchor 300' of boom 50 yards upstream of the boat launch, tow boom across the river to the NE and anchor on shore. Use vac truck to collect. Adjust angle of boom, quantity and placement of anchors, depending on conditions of the day. Keep boat launch open.

**Staging Area:** Onsite: SA-WWR-4R/Madam Dorion

**Site Safety:** Water hazard, vehicle & boat traffic, slips, trips & falls

**Field Notes:** Launch on site at BL-WWR-4.0R/Madam Dorion

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Raptors, Salmonids, Waterfowl



## 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	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



WWR-4.0R Photo: From the air, looking southwest towards the boat ramp at Madame Dorion Park.



**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**

324 Western Farmer Road  
Touchet, WA 99360

**Driving Directions**

1. Directions to BL-WWR-4.0R/Madam Dorion Memorial Park, starting in Umatilla, OR head east on US-730 E/6th St toward Eisele Dr  
Continue to follow US-730 (25.2 mi)
2. Slight left toward US-12 W (0.2 mi)
3. Turn left onto US-12 W (0.4 mi)
4. Turn right onto N Shore Rd (138 ft)
5. Take an immediate right on unnamed road for Madam Dorion boat launch on the right (0.3 mi)

# Wye Park boat launch

YAK-0.5R

**Position - Location:** 46° 14.330', -119° 13.721'      46° 14' 19.8", -119° 13' 43.3"      46.23884, -119.22869      Richland

**Strategy Objective:** Collection : Collect oil that is moving downstream while keeping Wye Park boat launch open on river right

**Implementation:** Using a workboat, Anchor on the left side of the boat launch and run 800' of boom out to the NW; keep the boat launch open. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Paved parking on site at SA-YAK-0.5R/Wye Park

**Site Safety:** Water Hazard; Slips, Trips, Falls; moving vehicles

**Field Notes:** Launch on site at BL-YAK-0.5R/Wye Park

**Watercourse:** River - Above a Dam - McNary Pool at the confluence with the Yakima River

**Resources at Risk:** Boat Launch/Ramp, City Park, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations



## Recommended Equipment

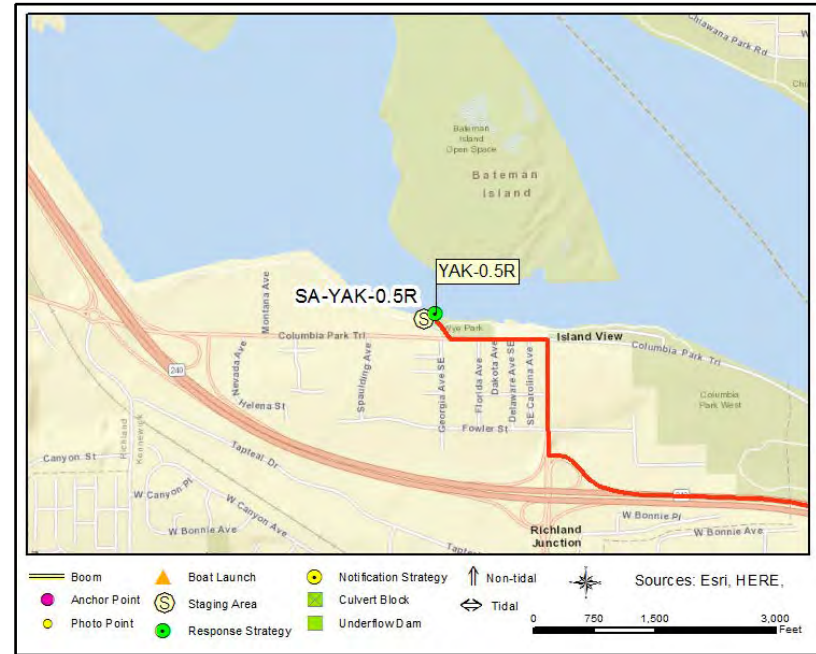
6 Each	Anchor - Danforth (or other appropriate type)
2 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B2 (Contractor Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor



YAK-0.5R Photo: View of the shoreside anchor point at the boat launch



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

1600 Columbia Park Trail  
 Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/Richland (4.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail, destination will be on the right (0.2 mi)
9. Finish at 1600 Columbia Park Trail, 99352, on the right

# Hwy 240 Bridge - George Washington Way

YAK-2.1L

**Position - Location:** 46° 15.286', -119° 15.367' 46° 15' 17.2", -119° 15' 22.0" 46.25477, -119.25611 Richland

**Strategy Objective:** Collection : Collect oil moving downstream on river left

**Implementation:** Using a workboat, Anchor 800' of boom on the E side of the clearing on the N shore. Deploy a small boat by hand and tow the boom SW to the S shore, anchoring it under the railroad bridge (above the creek). Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Stage onsite large gravel parking area

**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:** Hand launch a boat from the north shore

**Watercourse:** River - Above a Dam - Yakima River entering the McNary Pool

**Resources at Risk:** Critical Waterfowl, Shorebird Nesting, and Brooding Area, Downstream Resources, Public Recreation Site/Area, Salmonid



## 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	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - (hand-launch)

## Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



YAK-2.1L Photo: View of collection point facing bridges



### Site Contact

**City of Richland Parks and Recreation Department**  
Land/Property Contact : Manages this boat launch

Richland, WA 99352  
509-942-7529

### Nearest Address

91 George Washington Way  
Richland, WA 99352

### Driving Directions

- 1 From Washington 240 W take the I-182 E exit toward Pasco (0.1 mi)
  2. Turn off onto gravel frontage road, destination will be on the right (0.1 mi)
- (If coming from the opposite direction you must cross the 240 bridge, turn around and then follow the directions as there is only a pedestrian walkway to access the site from the eastbound lane which can only accommodate a small vehicle)

# Chamna Natural Preserve, Tapteal Water Trail

YAK-4.2L

**Position - Location:** 46° 15.402', -119° 17.251'      46° 15' 24.1", -119° 17' 15.1"      46.25670, -119.28752      Richland

**Strategy Objective:** Collection : Collect oil moving downstream on river left

**Implementation:** Drive vac truck (or portable skimmer & storage) down to water, anchor 600' of boom to shore, hand launch a boat and take boom upstream to the opposite bank, anchor on shore. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

**Staging Area:** Onsite : Paved parking area with paved path to the water (may need to cut back vegetation by the water for vac truck)

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

**Field Notes:** Bring bolt cutters to remove padlock from post in paved path, must hand launch boat

**Watercourse:** River - Side Channel - Yakima River upstream of the McNary Pool

**Resources at Risk:** City Park, Critical Waterfowl, Shorebird Nesting, and Brooding Area, Fish and Wildlife Resources, Public Recreation Site/Area, Salmon



### Recommended Equipment

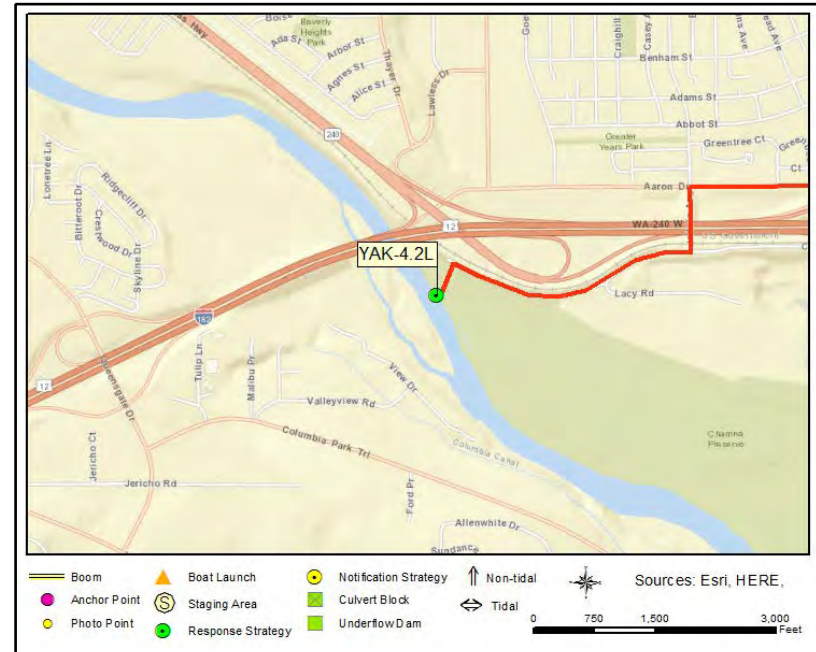
2	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
600	Feet	Boom - B2 (Contractor Boom) or equivalent
1	Each	Vac Truck or Skimmer and Storage
1	Each	Workboat(s) - (hand-launch)

### Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-4.2L Photo: View from downstream shoreside anchor point to upstream shoreside anchor point



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Land/Property Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

1000 Carrier Rd  
 Richland, WA 99352

**Driving Directions**

1. Start at US 395 Pasco, WA 99301
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 (9.25 miles)
4. At exit 5B take ramp on the right to Geo. Washington Way (0.61 miles)
5. Continue on WA-240-BR (George Washington Way) (0.2 miles)
6. Turn left on Adams St (0.03 miles)
7. Make sharp left on Aaron Dr (0.6 miles)
8. Turn left on Jadwin Ave (0.15 miles)
9. Turn right on Carrier Rd (0.5 miles)
10. Finish at parking lot for Tapteal Water Trail & Chamna Natural Preserve on the right



**APPENDIX 4B**  
**Notification Strategy 2-Pagers**

# NOTIFICATION STRATEGIES LIST

**M-292.6-N**

**M-293.0L-N**

**M-293.1L-N**

**M-309.4-N**

**M-316.5-N**

**M-328.4-N**

**M-336.1-N**

**M-340.2-N**

**M-343.0-N**

**MSN-2.0-N**

**MSN-2.8-N**

**SIH-9.7-N**

**YAK-3.45R-N**

# 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.



M-292.6-N Photo: Aerial view of the McNary Lock & 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 & 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)

**Position - Location:** 45° 55.828', -119° 17.305' 45° 55' 49.7", -119° 17' 18.3" 45.93047, -119.28841 Umatilla

**Strategy Objective:** Notification : Alert to need to monitor and potentially shut off large municipal wells &/or surface water intake.

**Implementation:** Contact City of Umatilla Public Works Department & notify to monitor situation and potentially shut off wells or water intakes.

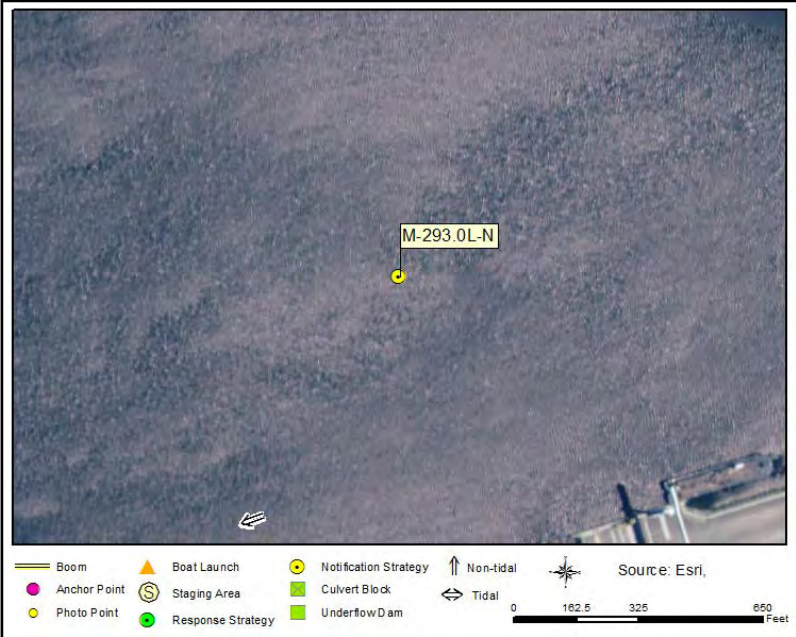
**Field Notes:** Large municipal well located less than 500 feet from river bank. The City is working on having surface water rights activated also and may need to shut down intakes if active.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Water Intakes

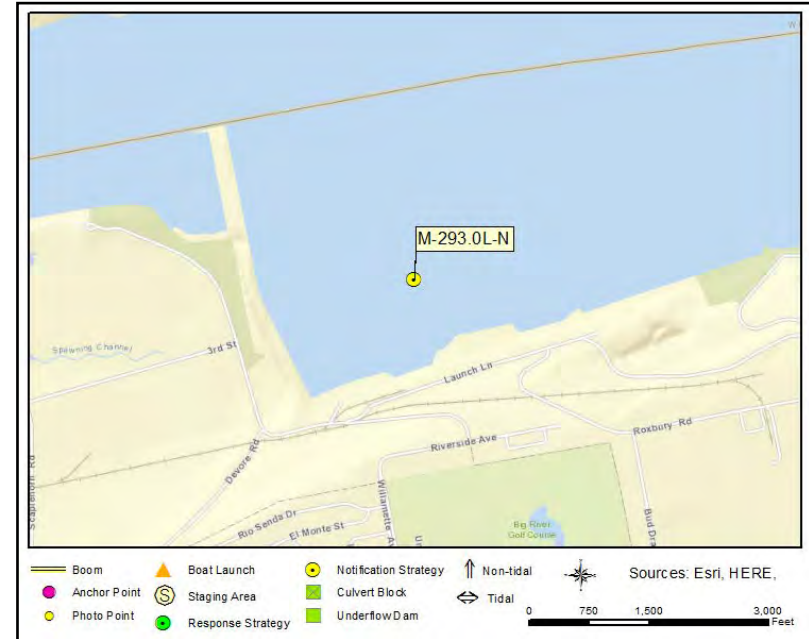
**Communication Process and Action:**

Call Director of Public Works, at 509-572-0323 (24 hrs)





M-293.0L-N Photo: City of Umatilla Public Works Department



**Site Contact**

**City of Umatilla Public Works Department**  
 Primary Contact : Director of Public Works  
 700 Sixth St  
 Umatilla, OR 97882  
 509-572-0323

**Nearest Address**

700 Sixth Street  
 Umatilla, OR 97882

**Driving Directions**

1. Directions to the City of Umatilla Public Works Department offices, starting at Pasco, WA
2. Go south on N 8th Ave toward W Marie St (0.2 miles)
3. Turn right on W Margaret St (0.09 miles)
4. Turn left on N 10th Ave (0.06 miles)
5. Turn right on W Park St (0.11 miles)
6. Turn left on N 12th Ave (0.06 miles)
7. Turn right on W Nixon St (0.11 miles)
8. Turn left on N 14th Ave (0.06 miles)
9. Turn right on W Sylvester St (0.74 miles)
10. Turn left on N 24th Ave (N Road 24) (0.22 miles)
11. Turn right on W Lewis St (0.47 miles)
12. Take ramp and go on US-395 S (0.78 miles)
13. At fork keep left on US-395 (5.18 miles)
14. Take ramp on the left and go on I-82 E/US-395 S toward Pendleton/Umatilla (20.99 miles)
15. At exit 1 take ramp on the right to US-395/US-730 toward Umatilla/Hermiston (0.08 miles)
16. Take ramp to US-730 W toward Umatilla/Weigh Sta.-Odor (0.15 miles)
17. Continue on US-730 (6th St) (1.06 miles)
18. Finish at 700 Sixth Street, 97882, on the left

# City of Hermiston Water Department

M-293.1L-N

**Position - Location:** 45° 55.838', -119° 17.200'      45° 55' 50.3", -119° 17' 12.0"      45.93064, -119.28667      Hermiston

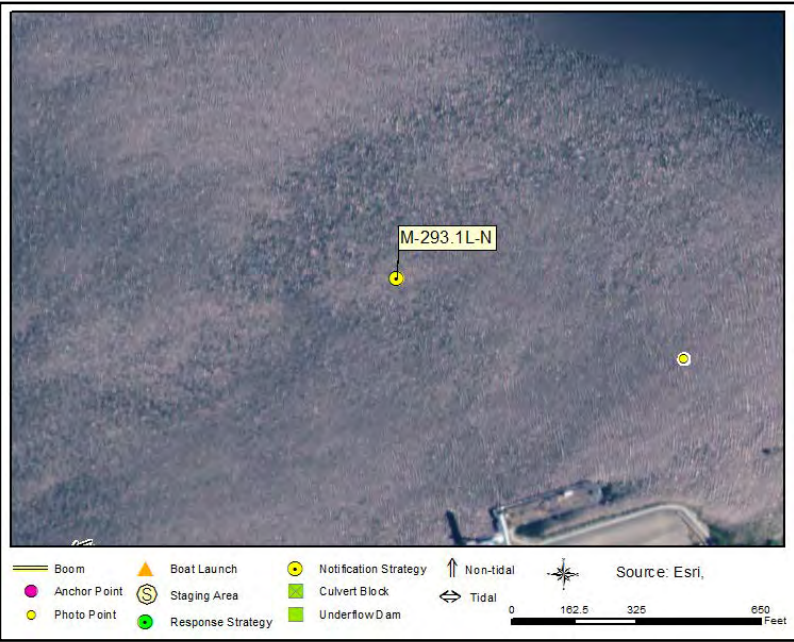
**Strategy Objective:** Notification : Alert to need to monitor and potentially shut off large municipal well located less than 500 feet from river bank.

**Implementation:** May shut down water 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.

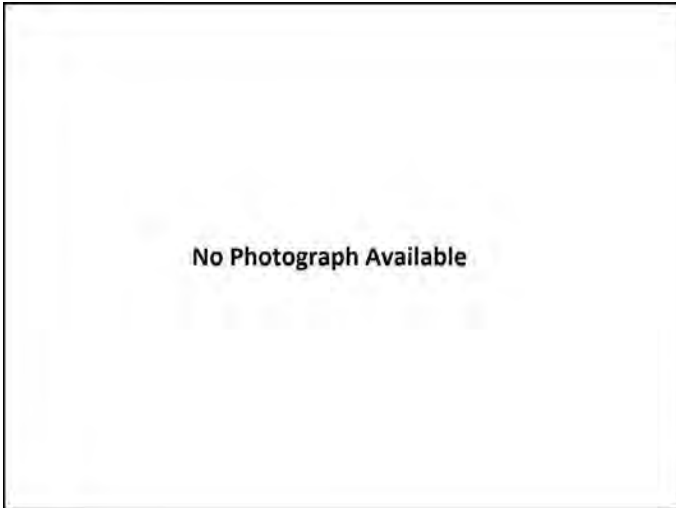
**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Public Health and Safety, Water Intakes

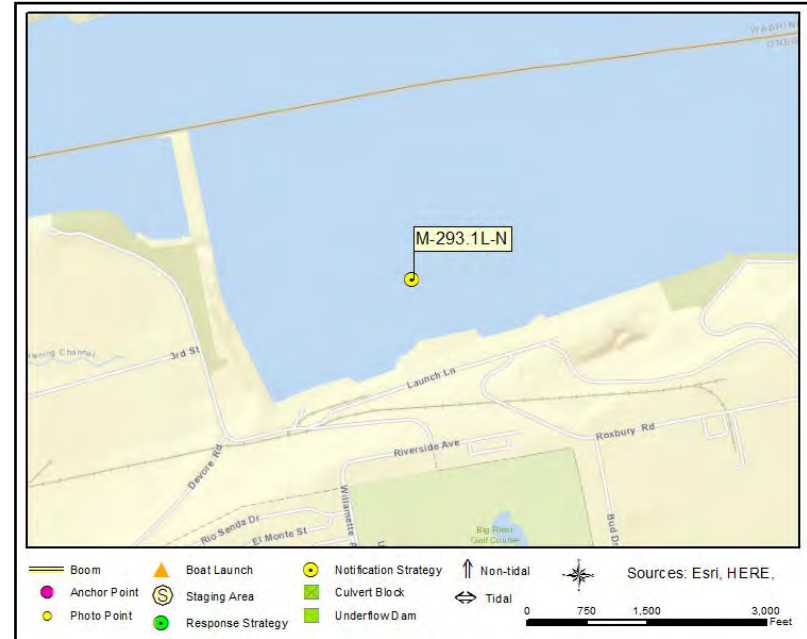


**Communication Process and Action:**

Call 541-561-7610, 24 hr emergency # for the Water Department



M-293.1L-N Photo: No Photo Available



**Site Contact**

**City of Hermiston Water Dept.**  
 Primary Contact : Water Department and Regional Water System Superin  
 180 NE 2nd Street  
 Hermiston, OR 97838  
 541-561-7610

**Nearest Address**

180 NE 2nd street  
 Hermiston, OR 97838

**Driving Directions**

1. Directions to the Hermiston City Hall, 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-395 E/US-730 E toward McNary Dam/Hermiston (0.13 miles)
8. Turn left on US-395 (6th St) (0.7 miles)
9. Continue (0.15 miles)
10. Bear right on US-395 (Umatilla-Stanfield Hwy) (5.28 miles)
11. Turn left on E Gladys Ave (0.07 miles)
12. Turn right on NE 2nd St (0.02 miles)
13. Finish at 180 NE 2nd street, 97838, on the left



**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

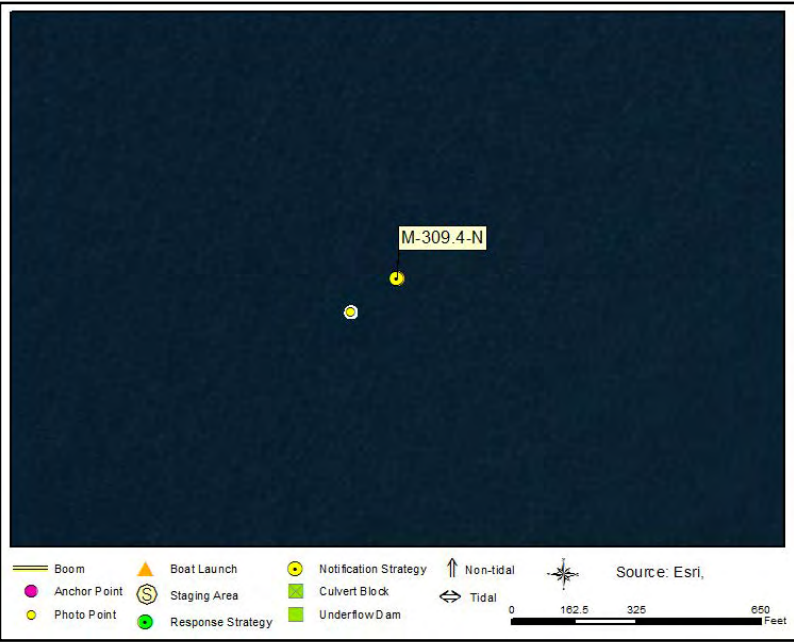
**Field Notes:** As of February 2015, the Oregon Water Resources Department does not know of any other municipalities in the area of the Middle Columbia River-GRP (between river mile 149-291)who have water rights and are diverting water directly or indirectly from the

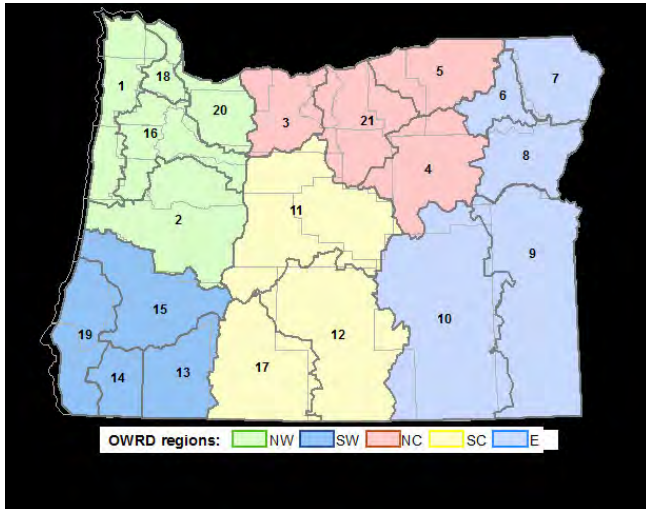
**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Water Intakes

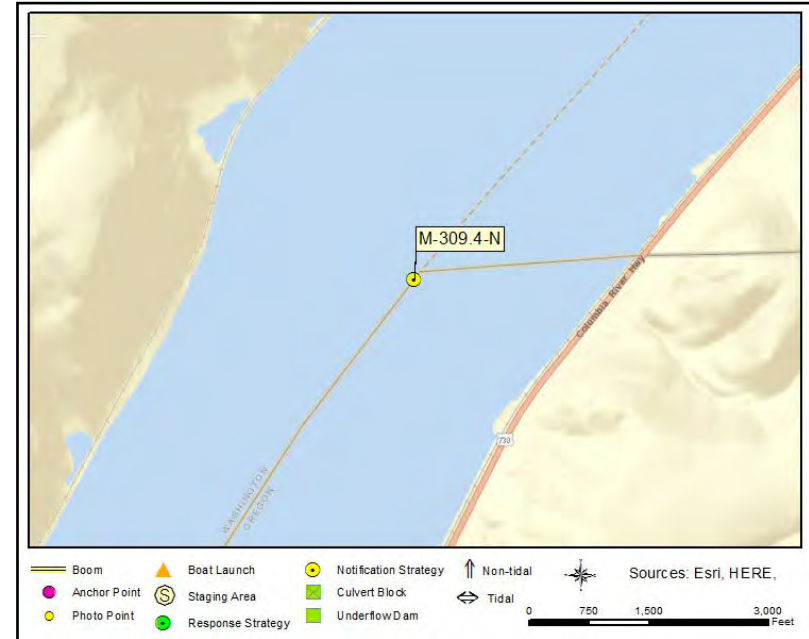
**Communication Process and Action:**

Call Michael Ladd, Oregon Water Resources Dept., 541-278-5456 wk., 541-310-0620 cell





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 Watermast'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

# Boise Paper Inc.

M-316.5-N

**Position - Location:** 46° 6.063', -118° 55.293'      46° 6' 3.8", -118° 55' 17.6"      46.10106, -118.92155      Wallula

**Strategy Objective:** Notification : Notify Water Intake User

**Implementation:** Call the Boise Paper Environmental Safety Manager at 509-545-3241 who will then work with Incident Command to determine the need to shut off their water intake pipe.

**Field Notes:** Water intake pipe is 50' below the surface so concern is for sinking oil, air quality or fire/explosions near the Boise facility.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Economic Resource, Water Intakes



**Communication Process and Action:**

Call the Boise Paper Environmental Safety Manager at 509-545-3241



M-316.5-N Photo: Boise Paper Inc. - water intake user



**Site Contact**

**Boise Paper Inc**  
 Land/Property Contact : Water Intake User  
 31831 W. US-12  
 Wallula, WA 99363  
 509-528-8095

**Nearest Address**

31831 W US-12  
 Wallula, WA 99363

**Driving Directions**

1. Directions to Boise Paper in Wallula, WA starting from US-395 in Pasco, WA head south on US-395 (6.5 miles)
2. Take the exit onto US-12 E toward Walla Walla (13.9 miles)
3. Turn right onto Boise Cascade Rd, destination will be on the right (0.2 miles)  
 31831 US-12 Wallula, WA 99363

# Kennewick Water Treatment Plant

M-328.4-N

**Position - Location:** 46° 12.887', -119° 6.282'      46° 12' 53.2", -119° 6' 16.9"      46.21478, -119.10471      Kennewick

**Strategy Objective:** Notification : Shut off water intake

**Implementation:** Call 509-585-4247 (24 hours), to have them shut off water intake at water treatment facility

**Field Notes:** Water intake pipe is only 5 feet below the surface

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Economic Resource, Water Intakes



**Communication Process and Action:**

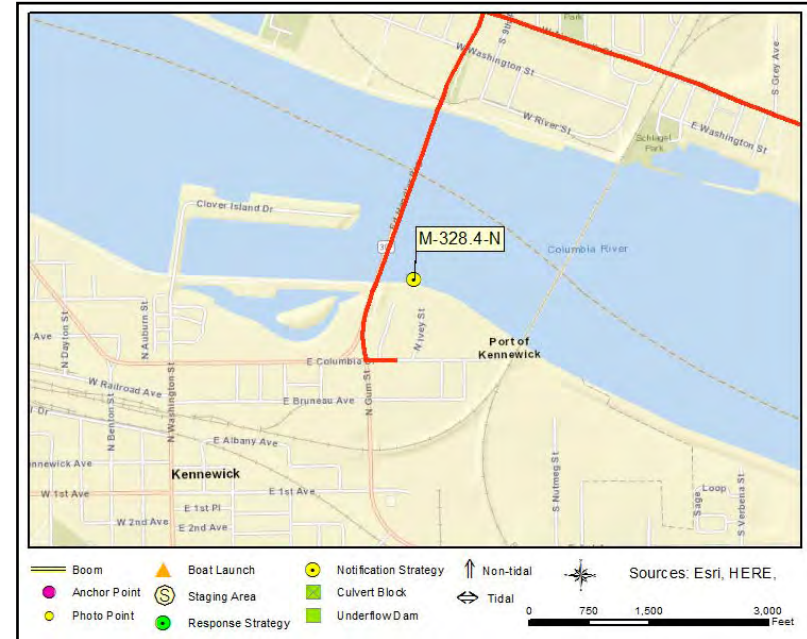
Call 509-585-4247 (24 hours)

# Kennewick Water Treatment Plant

M-328.4-N



M-328.4-N Photo: Aerial view of the Kennewick Water Treatment Plant's water intake



## Site Contact

**Kennewick Water Treatment Plant**  
Primary Contact : Water Intake User  
615 E. Columbia Street  
Kennewick, WA 99337  
509-585-4247

## Nearest Address

615 E. Columbia Dr.  
Kennewick, WA 99337

## Driving Directions

1. Directions to the Kennewick Water Treatment Facility, starting in Pasco, WA head south on US-395 continue straight onto N Oregon Ave (1.3 miles)
2. Turn right onto E Lewis St (1.1 miles)
3. Turn left onto S 10th Ave (1.1 miles)
4. Continue onto N Gum St (197 ft)
5. Turn left onto E Columbia Dr, destination will be on the left (0.1 miles)
6. Finish at 615 E Columbia Dr Kennewick, WA 99336

# Pasco Water Intake Pipes 1 & 2

M-336.1-N

**Position - Location:** 46° 15.951', -119° 14.469' 46° 15' 57.0", -119° 14' 28.1" 46.26584, -119.24115 Pasco

**Strategy Objective:** Notification : Shut off water intakes

**Implementation:** Call 509-531-9919 (24 hours), to have them shut off water intake at water treatment facility

**Field Notes:** Butterfield water intake pipe ~16 feet below the surface, the West Pasco water intake located at 11412 W Court St. is only ~7 ft below the surface.

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Water Intakes

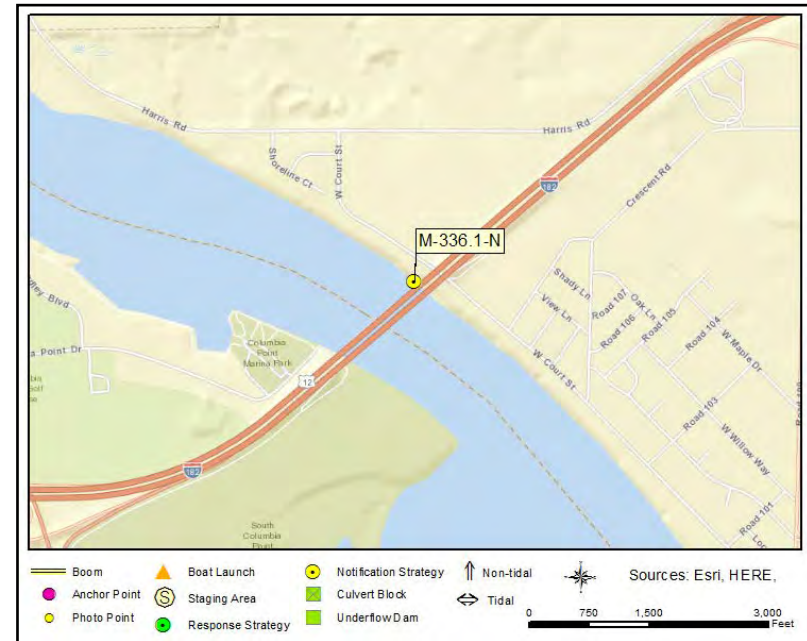
**Communication Process and Action:**

Call 509-531-9919 (24 hours)





M-336.1-N Photo: Pasco Water Intake Facilities



### Site Contact

#### Pasco's Butterfield Water Intake Facility

Primary Contact : Water Intake 24 Hr Emergency Contact  
1304 S 12th Ave  
Pasco, WA 99301  
509-531-9919

### Nearest Address

1304 S, 12th Ave  
Pasco, WA 99301

### Driving Directions

1. Directions to Pasco's Butterfield Water Intake, starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (1.84 miles)
4. Make sharp right on E A St (1.29 miles)
5. Turn left on S 12th Ave (0.21 miles)
6. Continue to the end of the road, take a right, then left over the tracks to the water, turn right to finish at 1304 S, 12th Ave, 99301 on the right.



# Richland Water Intake Facility

M-340.2-N

**Position - Location:** 46° 18.887', -119° 15.570'      46° 18' 53.2", -119° 15' 34.2"      46.31478, -119.25951      Richland

**Strategy Objective:** Notification : Notification of a spill to allow the facility to close down water intake

**Implementation:** Call Richland Water Treatment Plant Operator's 24 hour emergency number 509-531-4480.

**Field Notes:** Water intake pipe is

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Water Intakes

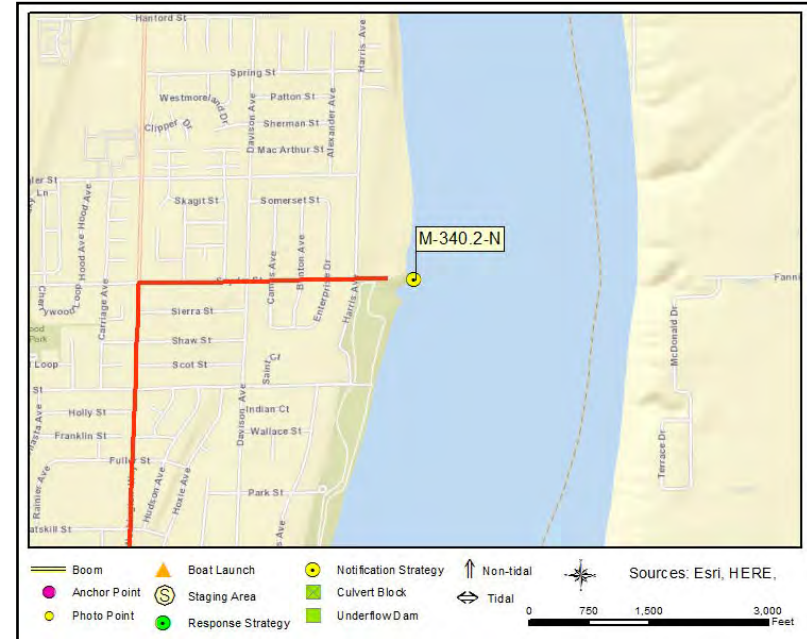


**Communication Process and Action:**

Call Richland Water Treatment Plant Operator's 24 hour emergency number 509-531-4480.



M-340.2-N Photo: View of the Richland City water intake facility (agricultural) from the boat launch to the south



### Site Contact

**Richland Water Treatment Plant**  
 Primary Contact : Water Intake user  
 1 Snyder Street  
 Richland, WA 99354  
 509-531-4480

### Nearest Address

1 Snyder Street  
 Richland, WA 99354

### Driving Directions

1. Start at us-395 Pasco, WA 99301
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 (9.25 miles)
4. At exit 5B take ramp on the right to Geo. Washington Way (0.61 miles)
5. Continue on WA-240-BR (George Washington Way) (2.75 miles)
6. Continue on George Washington Way (1.01 miles)
7. Turn right on Snyder St (0.59 miles)
8. Finish at 1 Snyder Street, 99354, on the right

# North Richland Irrigation water intake

M-343.0-N

**Position - Location:** 46° 21.072', -119° 15.957'      46° 21' 4.3", -119° 15' 57.4"      46.35120, -119.26595      Richland

**Strategy Objective:** Notification : Notify City of Richland to shut off water intake pipe.

**Implementation:** Call the Richland Water Treatment Plant– Water Operators 24 hour emergency number 509-531-4480 to have them shut down water intake pipe.

**Field Notes:** Water intake pipe is

**Watercourse:** River - Above a Dam - McNary Pool

**Resources at Risk:** Economic Resource, Water Intakes

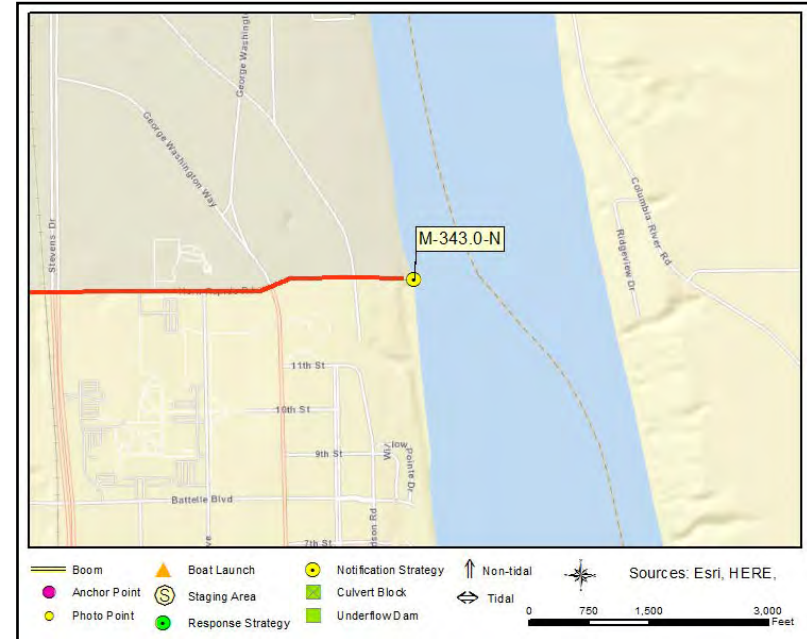


## Communication Process and Action:

Call Richland Water Treatment Plant Operator's 24 hour emergency number 509-531-4480.



M-343.0-N Photo: The N. Richland irrigation water intake facility



### Site Contact

**Richland Water Treatment Plant**  
 Primary Contact : Water Intake user  
 1 Snyder Street  
 Richland, WA 99354  
 509-531-4480

### Nearest Address

700 Horn Rapids Road  
 Richland, WA 99354

### Driving Directions

1. Start at us-395 Pasco, WA 99301
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 (10.42 miles)
4. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way/Vantage (0.31 miles)
5. At fork keep left on WA-240 W toward Vantage (0.27 miles)
6. Continue on WA-240 (Bypass Hwy) (5.93 miles)
7. Turn right on Kingsgate Way (1.8 miles)
8. Turn right on Horn Rapids Road and finish at the water intake facility at the roads end.

# Tesoro Pasco Facility

MSN-2.0-N

**Position - Location:** 46° 12.901', -119° 1.874'      46° 12' 54.0", -119° 1' 52.4"      46.21501, -119.03123      Pasco

**Strategy Objective:** Notification : Deployment of MSN-2R a collection strategy

**Implementation:** Call Tesoro's Pasco facility manager at 509-543-6100 (M-F 8 to 5) or 509-543-6102 (After Hours). Upon notification Tesoro management will work with incident command to determine if and when to deploy MSN-2R. Once deployed, or if unable to deploy for some reason, a Tidewater representative will contact the WA ECY PREP Pager Duty Officer at 360-923-6020. Implementation of MSN-2R by contractors is an alternative option.

**Field Notes:** Tesoro has equipment & personnel to deploy strategy, however, any others responding should work with Tesoro personnel to gain access to facility property. Those deploying GRP strategies on Tesoro property will need to be escorted if traveling through the

**Watercourse:** River - Below a Dam - McNary Pool of the Snake River below the Ice Harbor Dam

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

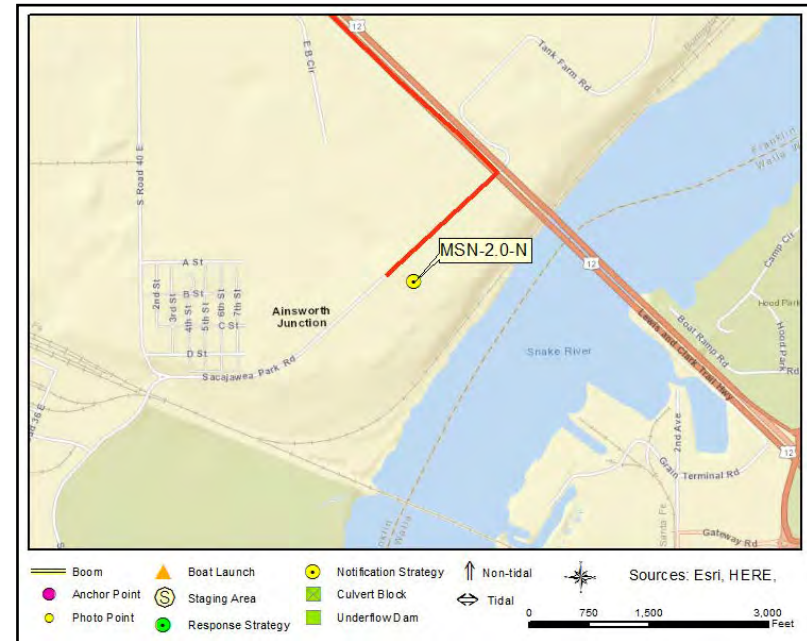


**Communication Process and Action:**

Call Tesoro's Pasco facility manager at 509-543-6100 (M-F 8 to 5) or 509-543-6102 (After Hours).



MSN-2.0-N Photo: Tesoro's Pasco facility boathouse



### Site Contact

#### Tesoro, Pasco Facility

Pre-Notification Required : Contingency Plan Holder  
 2900 Sacajawea Park Rd  
 Pasco, WA 99301  
 509-543-6100

### Nearest Address

2900 Sacajawea Park Road  
 Pasco, WA 99301

### Driving Directions

1. Directions to Tesoro's Pasco facility starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (4 miles)
7. Turn right on Sacajawea Park Rd (2 miles)
8. Finish at 2900 Sacajawea Park Rd, 99301, on the right

# Tidewater, Pasco Facility

MSN-2.8-N

**Position - Location:** 46° 13.289', -119° 1.236'      46° 13' 17.3", -119° 1' 14.2"      46.22148, -119.02060      Pasco

**Strategy Objective:** Notification : Deployment of GRP strategy MSN-2.9R a deflection strategy

**Implementation:** Call Tidewater's Pasco facility manager at 509-547-7701 (M-F 8 to 5) or 509-727-1585 (After Hours). Upon notification Tidewater management will work with incident command to determine if and when to deploy MSN-2.9R. Once deployed, or if unable to deploy for some reason, a Tidewater representative will contact the WA ECY PREP Pager Duty Officer at 360-923-6020. Implementation of MSN-2.9R by contractors is an alternative option.

**Field Notes:** Tidewater has equipment & personnel to deploy strategy, however, any others responding should work with Tidewater personnel to gain access to facility property. Those deploying GRP strategies on Tidewater property will need to be escorted if traveling through the

**Watercourse:** River - Below a Dam - McNary Pool of the Snake River below the Ice Harbor Dam

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



**Communication Process and Action:**

Call Tidewater's Pasco facility manager at 509-547-7701 (M-F 8 to 5) or 509-727-1585 (After Hours)



MSN-2.8-N Photo: Tidewater Pasco Facility Boom Storage Locker



**Site Contact**

**Tidewater, Pasco Facility**  
 Pre-Notification Required : Contingency Plan Holder  
 509-547-7701

**Nearest Address**

671 Tank Farm Road  
 Pasco, WA 99301

**Driving Directions**

1. Directions to Tidewater's Pasco facility starting at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (2.87 miles)
7. Turn left on Sacajawea Park Rd (0.02 miles)
8. Continue on Tank Farm Rd (1.22 miles)
9. Finish at 671 Tank Farm Road, 99301, on the right. Call through intercome box at 2nd gate for access.



## Ice Harbor Lock & Dam Notification

SIH-9.7-N

**Position - Location:** 46° 14.933', -118° 52.778'      46° 14' 56.0", -118° 52' 46.7"      46.24888, -118.87963      Burbank

**Strategy Objective:** Notification : Notify Ice Harbor Lock and Dam so staff can take action to protect the resources under their control

**Implementation:** Call Ice Harbor Lock & Dam Control Room Operator 24/7 at 509-543-3231 and inform them of any oil spill in the area (or potential spill) so that they can take action to protect the resources under their control.

**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 response strategies from USACE property must be escorted.

**Watercourse:** River - Above a Dam - Snake River, Ice Harbor Pool (at the Ice Harbor Lock and Dam)

**Resources at Risk:** Lock and Dam



### Communication Process and Action:

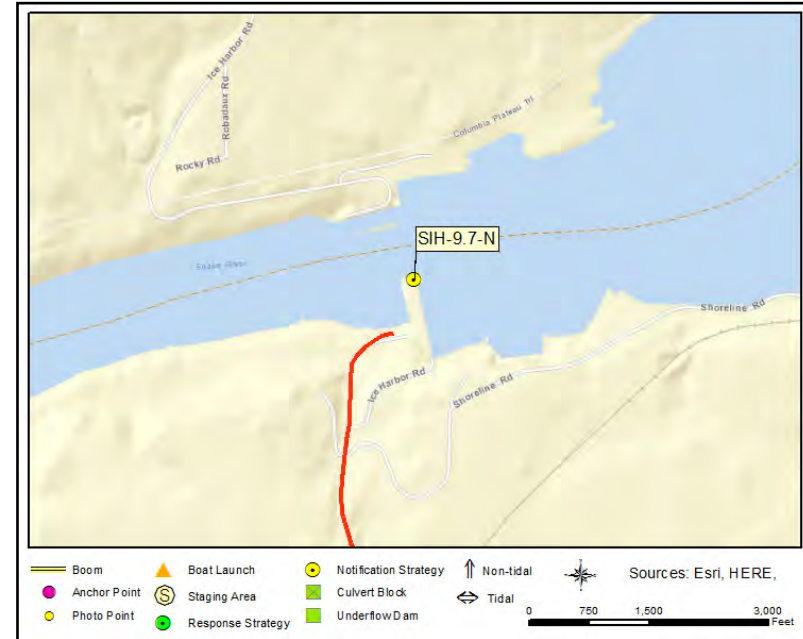
Call Ice Harbor Lock & Dam Control Room Operator (24/7) 509-543-3231 and inform USACE project management of any oil spill in the area (or potential spill) so that they can take action to protect the resources under their control. Actions may include and would likely focus on the deployment of boom to protect the fish ladders on the upstream and downstream sides of the dam.

# Ice Harbor Lock & Dam Notification

# SIH-9.7-N



SIH-9.7-N Photo: View of the Ice Harbor Lock & Dam from the cliff on the south shore



### Site Contact

**USACE Ice Harbor Dam Control Room**  
 Emergency Contact : 24 Hour Emergency Contact  
  
 WA  
 509-547-7783

### Nearest Address

2763 Monument Dr  
 Burbank, WA 99323

### Driving Directions

1. Directions to Ice Harbor Dam, starting at US-395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.89 miles)
3. Continue on WA-397 (0.19 miles)
4. Make sharp left onto ramp to I-182 (0.46 miles)
5. Continue on I-182 (US-12 E) (0.3 miles)
6. Continue on US-12 (3.79 miles)
7. Turn left (0.02 miles)
8. Continue on WA-124 (Ice Harbor Dr) (5.22 miles)
9. Turn left on Monument Dr (Ice Harbor Rd) (2.7 miles)
10. Finish at 2763 Monument Dr, 99323, on the right

# Badger Mountain Irrigation District pump station

YAK-3.45R-N

**Position - Location:** 46° 14.777', -119° 16.274'      46° 14' 46.6", -119° 16' 16.4"      46.24629, -119.27123      Richland

**Strategy Objective:** Notification : Notify the Badger Mountain Irrigation District so that they can take action to protect their pump station

**Implementation:** Call Badger Mountain Irrigation District (24/7) 509-539-5682 and inform them of any significant oil spill or potential spill that threatens to impact their water intake so that they can take action to protect the resources under their control

**Field Notes:** Pumps are active mid-march through mid-October.

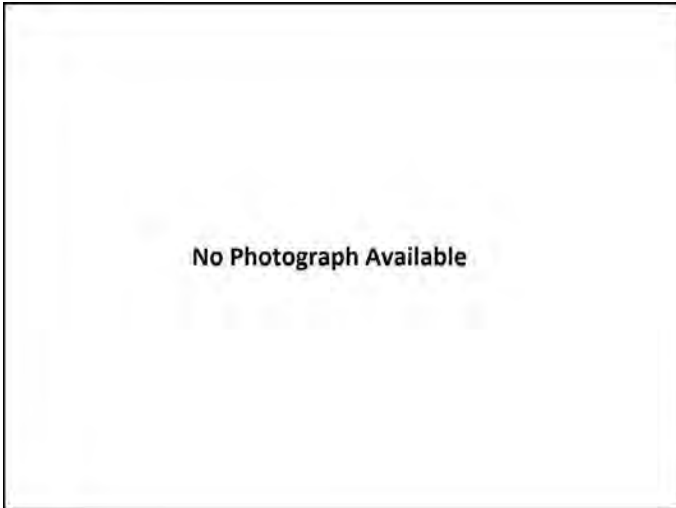
**Watercourse:** River - Yakima River

**Resources at Risk:** Water Intakes

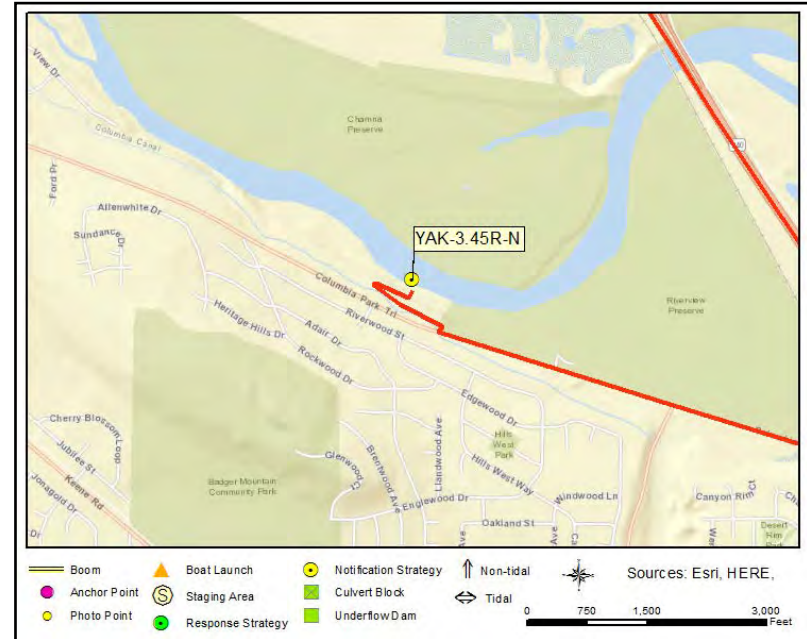
### Communication Process and Action:

Call Badger Mountain Pager (24/7) 509-539-5682 and inform them of any significant oil spill or potential spill that threatens to impact their water intake so that they can take action to protect the resources under their control.





YAK-3.45R-N Photo: No Photo Available



**Site Contact**

**Badger Mountain Irrigation District**  
 Primary Contact : Agricultural Irrigation

Kennewick, WA 99338  
 509-539-5682

**Nearest Address**

290 Riverwood St  
 Richland, WA 99352

**Driving Directions**

1. Start at US-395, Pasco, WA 99301
2. Go on US-395 S toward W Vineyard Dr (4.68 miles)
3. Take ramp on the right and go on I-182 W / US-395 S toward Richland / Pendleton (9.72 miles)
4. At exit 5A take ramp on the right to WA-240 E toward Kennewick (0.18 miles)
5. Continue on WA-240 E (George Washington Way) (1.22 miles)
6. Take ramp on the right toward Columbia Park Trail (0.37 miles)
7. At fork keep right on Columbia Park Trail (0.09 miles)
8. Bear right on Columbia Park Trl (1.37 miles)
9. Turn right onto access road that crosses the canal and bear left.
10. Finish at the water intake facility on the right.

**APPENDIX 4C**  
**Staging Area 2-Pagers**

# STAGING AREAS LIST

<b>SA-M-292.6L</b>	<b>SA-M-292.6R</b>	<b>SA-M-298.7L</b>	<b>SA-M-299.1L</b>	<b>SA-M-300.0L</b>
<b>SA-M-301.2L</b>	<b>SA-M-312.3L</b>	<b>SA-M-320.7L</b>	<b>SA-M-324.3R</b>	<b>SA-M-328.1L</b>
<b>SA-M-328.9R</b>	<b>SA-M-330.2R</b>	<b>SA-M-331.4L</b>	<b>SA-M-332.8R</b>	<b>SA-M-333.9L</b>
<b>SA-M-334.0R</b>	<b>SA-M-336.4R</b>	<b>SA-M-337.8R</b>	<b>SA-M-340.3R</b>	<b>SA-M-340.7L</b>
<b>SA-MSN-1.0R</b>	<b>SA-MSN-2.2L</b>	<b>SA-MSN-2.3L</b>	<b>SA-SIH-9.9R</b>	<b>SA-WWR-4R</b>
<b>SA-YAK-0.5R</b>				

# McNary South Shore boat launch

SA-M-292.6L

## Staging Area

**Position - Location:** 45° 55.633', -119° 17.422'      45° 55' 38.0", -119° 17' 25.3"      45.92721, -119.29036      Umatilla

**Comments:** USACE paved lot and three boat ramps 7.5 degree avg grade



## GRP Response Strategies Served:

M-292.6L

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Two floating docks
Boat Ramp(s)	Concrete, Solid	3 Concrete ramps 7-6.5 degree grade double
Cell Phone Coverage	Yes	
Estimated Lot Size		2 95,000 sq ft
Lot Cover (Primary)	Dirt/Gravel	2 Gravel and paved
Parking - Car	Gravel	100
Parking - Trailer	Marked	50
Power	No	
Restroom	Restroom - Vault	4 mens and womens
User Fee	No	always open
Waste Disposal	Trash Receptacle	dumpsters
Water (potable)	No	
Water (potable)	No	



SA-M-292.6L Photo: South Shore McNary double boat ramp



### Site Contact

#### USACE McNary pool

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

### Nearest Address

100 Launch Lane  
Umatilla, OR 97882

### Driving Directions

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. Turn left (20 ft)
7. Turn right (312 ft), destination will be on the left



# McNary Dam North Shore boat launch

SA-M-292.6R

## Staging Area

**Position - Location:** 45° 56.627', -119° 17.936'      45° 56' 37.6", -119° 17' 56.2"      45.94378, -119.29894      Kennewick

**Comments:** Paved USACE staging area and concrete boat ramp



## Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Concrete, Solid	Single ramp 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		77,000 sq ft
Estimated Lot Size		77,000 sq ft
Parking - Car	Gravel	50
Power	No	
Restroom	Restroom - Vault	1
User Fee	No	
Waste Disposal	Trash Receptacle	Trash cans & dumpster
Water (potable)	No	

## GRP Response Strategies Served:

M-292.6R, M-293.7R, M-292.63R



SA-M-292.6R Photo: North Shore McNary Dam boat launch



## Site Contact

### USACE McNary pool

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

## Nearest Address

81226 Mc Nary Rd  
Kennewick, WA 99338

## Driving Directions

1. Starting at I-82 take Exit 131
2. Head north on Exit 131 toward WA-14 W (0.2 mi)
3. Turn right on McNary Rd (1.0 mi)
4. Keep right on McNary Rd, your destination will be on the left (0.7 mi)
5. Finish at 81226 Mc Nary Rd, 99338, on the right

# Hat Rock State Park

SA-M-298.7L

## Staging Area

**Position - Location:** 45° 55.062', -119° 10.467'      45° 55' 3.7", -119° 10' 28.0"      45.91770, -119.17445      Hermiston

**Comments:** Stage in Parking Area near Boat Ramps. Notify Hat Rock State Park before staging equipment and for access assistance; call 541-910-6285 or 541-983-2277.



## GRP Response Strategies Served:

M-299.8L, M-299.9R, M-305.9L, M-298.7L, M-299.5M

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	2
Boat Ramp(s)	Concrete, Solid	2 (7.4 degree grade)
Cell Phone Coverage	Yes	Verizon
Estimated Lot Size		87,000 sqft
Parking - Car	Marked	100
Parking - Trailer	Marked	50
Power	Yes	In Restroom
Restroom	Restroom - Flush	2
User Fee	No	
Waste Disposal	Trash Receptacle	Multiple
Water (potable)	Yes	In Restroom



SA-M-298.7L Photo: Hat Rock State Park boat launch



### Site Contact

**Hat Rock State Park**  
 Primary Contact : Manager  
  
 Hermiston, OR 97838  
 541-910-6285

### Nearest Address

82200 Hat Rock Rd  
 Hermiston, OR 97838

### Driving Directions

#### DIRECTIONS TO STAGING AREA/BOAT LAUNCH (SA-M298.7L & BL-M-298.7L)

1. From Pasco, Head east on Hwy 12 (US-12 E) towards Oregon
2. After 16.2mi, in Wallula Junction, stay to the right to continue on Hwy 730
3. After 5.8mi, stay on Hwy 730 as you cross into Oregon
4. After 11.1mi, turn right onto Hat Rock Road
5. After 0.7mi, continue straight to stay on Hat Rock State Park Road.
6. After 0.5mi, parking area and boat launch are at end of road. Stage equipment in parking area near boat ramp.

# McNary Yacht Club boat launch

SA-M-299.1L

## Staging Area

**Position - Location:** 45° 55.202', -119° 9.882'      45° 55' 12.1", -119° 9' 52.9"      45.92003, -119.16470      Hermiston

**Comments:** Marina staging area and launch with one concrete ramp



## Location Information

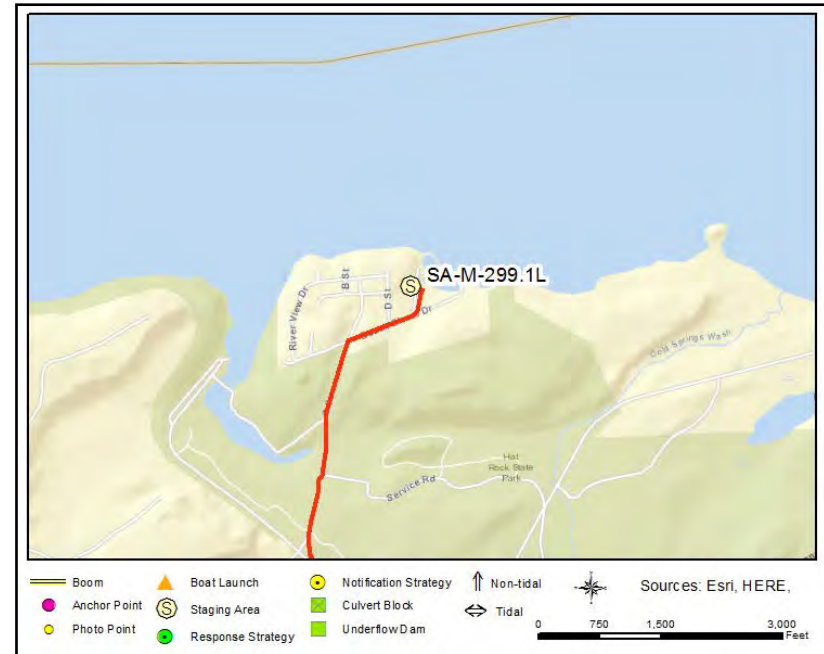
Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Marina
Boat Ramp(s)	Concrete, Solid	USACE public, single ramp 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		12,500 sq ft
Fuel	Yes	Marina
Power	Yes	Marina
Restroom	Restroom - Flush	Marina is private - need permission
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Marina

## GRP Response Strategies Served:

M-299.4L



SA-M-299.1L Photo: McNary Yacht Club (USACE) public boat launch



**Site Contact**

**USACE McNary pool**

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

**Nearest Address**

34099 Beach Shore Drive  
Hermiston, OR 97838

**Driving Directions**

**DIRECTIONS TO STAGING AREA/BOAT LAUNCH**

1. Start at I-82, Umatilla, OR 97882
2. Get off on Exit 1 going east on US-730/6th St (7.9 mi)
3. Make sharp left on Hat Rock State Park Rd (0.7 mi)
4. Turn right on C Street
4. Bear right on Beach Shore Dr (0.2 mi)
5. Continue straight to finish at the McNary Yacht Club 34099 Beach Shore Drive, 97838 on your left

# Warehouse Beach Rec Area boat launch

SA-M-300.0L

## Staging Area

**Position - Location:** 45° 55.175', -119° 8.594'      45° 55' 10.5", -119° 8' 35.7"      45.91958, -119.14324      Hermiston

**Comments:** Primitive launch with gravel ramp & staging area



## Location Information

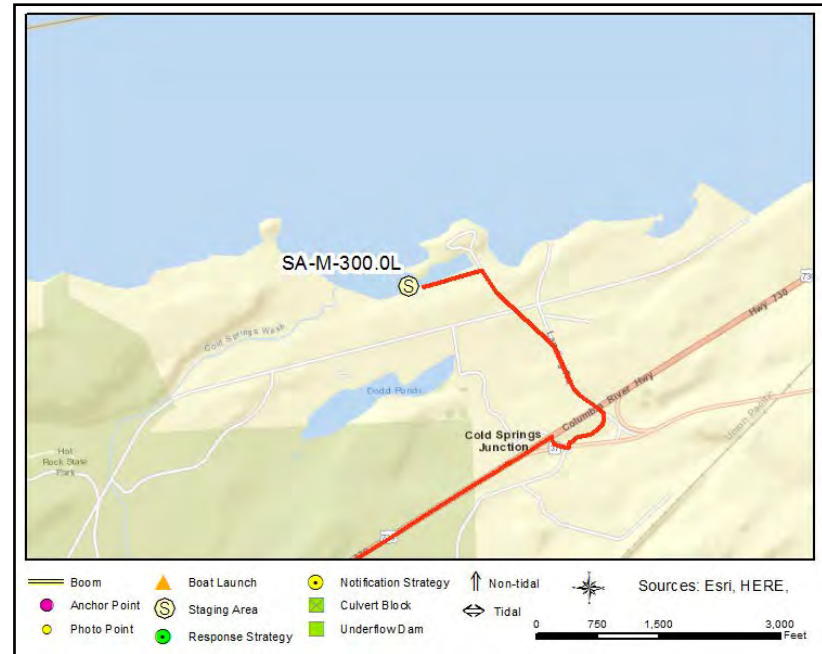
Asset	Type/Status	Amount/Number
Boat Ramp(s)	Gravel	Primitive 7 degree gravel ramp
Estimated Lot Size		25,000 sq ft
Parking - Car	Gravel	20
Parking - Trailer	Gravel	10
Power	No	
Restroom	Restroom - Vault	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

## GRP Response Strategies Served:

M-300.0L, M-302.3R, M-300.3L



SA-M-300.0L Photo: USACE Warehouse Beach Rec Area boat launch



**Site Contact**

**USACE McNary pool**

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

**Nearest Address**

100 Landing Rd  
Hermiston, OR 97838

**Driving Directions**

1. Starting at I-82 in Umatilla, OR
2. Turn left onto US-395 S/ US730 E/6th St (signs for Mc Nary Dam/ Hermiston)  
Continue to follow US-730 E (9.2 mi)
3. Slight right onto OR-37 S (0.2 mi)
4. Turn left onto Landing Rd, Warehouse Beach Recreation Area will be on the right (0.6 mi)



# Sand Station Recreation Area

SA-M-301.2L

## Staging Area

**Position - Location:** 45° 55.307', -119° 7.205'      45° 55' 18.4", -119° 7' 12.3"      45.92179, -119.12008      Hermiston

**Comments:** Restrooms, beaches, camping suitable for staging



## Location Information

Asset	Type/Status	Amount/Number
Estimated Lot Size		60,000 sq ft
Parking - Car	Gravel	30
Parking - Trailer	Gravel	15
Power	Yes	Restroom has power
Restroom	Restroom - Flush	1
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Restroom has water

## GRP Response Strategies Served:

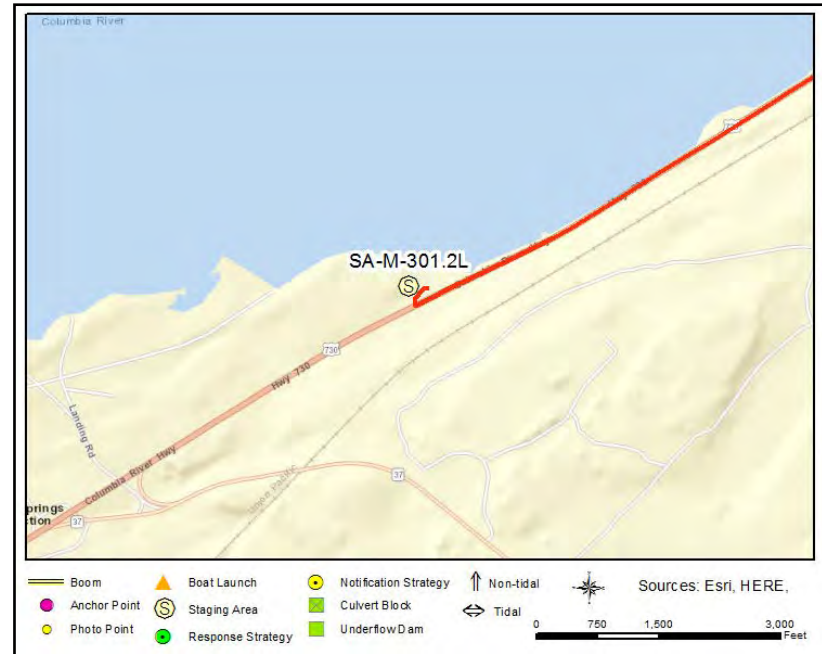
M-300.9L, M-301.1L

# Sand Station Recreation Area

SA-M-301.2L



SA-M-301.2L Photo: Sand Station Recreation Area - Staging Area



### Site Contact

#### USACE McNary Control Room

Primary Contact :

WA

541-922-2231

### Nearest Address

Landing Road  
Hermiston, OR 97838

### Driving Directions

1. From Pasco take US-395 S
2. Turn right to merge onto I-182 E/ US-12 E toward Walla Walla (1.4 mi)
3. Continue onto US-12 E (17.0 mi)
4. Slight right toward US-730 W (0.2 mi)
5. Slight right onto US-730 W Entering Oregon, Sand Station Recreation Area will be on the right (14.8 mi)

# Walla Walla Yacht Club

SA-M-312.3L

## Staging Area

**Position - Location:** 46° 1.585', -118° 56.196'      46° 1' 35.1", -118° 56' 11.7"      46.02641, -118.93659      Touchet

**Comments:** Paved staging area, private marina & USACE boat launch



## GRP Response Strategies Served:

M-308.8R, M-310.3R, M-311.9R, M-311.4R, M-309.8R

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	2
Boat Ramp(s)	Concrete, Solid	USACE 1 public ramp 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		200,000 sq ft
Fuel	Yes	
Parking - Car	Gravel	40
Parking - Trailer	Gravel	20
Power	Yes	Private marina
Restroom	Restroom - Portable	1
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Private marina



SA-M-312.3L Photo: Walla Walla Yacht Club, USACE boat launch



**Site Contact**

**Walla Walla Yacht Club**  
 Land/Property Contact : Manages Marina@ USACE's Walla Walla boat launch

Kennewick, WA 99337  
 509-547-4946

**Nearest Address**

299 Port Kelly Road  
 Touchet, WA 99360

**Driving Directions**

1. Directions to SA-M-312.3L/Walla Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right

# Casey Pond Boat Launch, McNary Wildlife Refuge

SA-M-320.7L

## Staging Area

**Position - Location:** 46° 9.680', -118° 57.297'      46° 9' 40.8", -118° 57' 17.8"      46.16133, -118.95495      Burbank

**Comments:** Staging area and concrete boat launch. Gated after dark bring bolt cutters



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	single concrete ramp 6.8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		22500 sq ft
Lot Cover (Primary)	Asphalt	gravel lot
Parking - Car	Gravel	30
Parking - Trailer	Gravel	30
Power	No	
Restroom	None	none
User Fee	No	gated open sunrise/sunset
Waste Disposal	None	none
Water (potable)	No	

## GRP Response Strategies Served:

M-319.2M, M-320.7L, M-317.8M, M-320.6L



SA-M-320.7L Photo: Casey Pond Boat Ramp, McNary Wildlife Refuge



**Site Contact**

**US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges**  
 Primary Contact : Property Contact  
  
 Burbank, WA 99323  
 509-546-8300

**Nearest Address**

2955 Hanson Loop Rd  
 Burbank, WA 99323

**Driving Directions**

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp left onto ramp to I-182/US-12 E
5. Continue on I-182/US-12 E (1.4 mi)
6. Continue on US-12 (8.2 mi)
7. Make sharp right on Hanson Loop Rd (0.3 mi)
8. Take the second gravel drive on the left (just before the road curves and the blue line on the attached map ends), go through the gate to the end of the gravel road (0.9 mi).

# Two Rivers Park boat launch

SA-M-324.3R

## Staging Area

**Position - Location:** 46° 11.051', -119° 1.951'      46° 11' 3.1", -119° 1' 57.1"      46.18419, -119.03252      Kennewick

**Comments:** Lighted gravel lot (staging area) with 2 concrete boat ramps



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	3 floating docks
Boat Ramp(s)	Concrete, Solid	2 concrete ramps, 7.5 & 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		30,000 sq ft
Parking - Car	Gravel	20
Parking - Trailer	Gravel	15
Power	No	
Restroom	Restroom - Portable	
User Fee	No	gated, may need bolt cutters
Waste Disposal	Trash Receptacle	
Water (potable)	No	

## GRP Response Strategies Served:

M-324.8R, M-323.4M, M-323.5M, M-323.1M, M-324.1M, M-323.9M, M-322.6M



SA-M-324.3R Photo: Two Rivers Park boat launch



**Site Contact**

**Two Rivers Park**  
 Land/Property Contact : Manage Two Rivers Park boat launch  
  
 Kennewick, WA 99337  
 509-531-7106

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp right on E A St
5. Turn left on S 10th Ave
6. Continue on WA-397 (Ed Hendler Brg)
7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
8. Turn left on E Finley Rd (2.2 mi)
9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)



# Pasco Boat Basin Boat Launch

SA-M-328.1L

## Staging Area

**Position - Location:** 46° 13.162', -119° 5.490'      46° 13' 9.7", -119° 5' 29.4"      46.21937, -119.09150      Pasco

**Comments:** Paved staging area & boat launch next to a marina



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	floating dock
Boat Ramp(s)	Concrete, Solid	Usable 1/2 of double ramp 7.5 degree
Cell Phone Coverage	Yes	
Estimated Lot Size		40,000 sq ft
Parking - Car	Other	20
Parking - Trailer	Other	20
Power	No	marina has power
Restroom	Restroom - Vault	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	No	Marina has water

## GRP Response Strategies Served:

M-328.0L



SA-M-328.1L Photo: Pasco Boat Basin launch



**Site Contact**

**City of Pasco Recreation Service**

Land/Property Contact :

Pasco, WA 99301  
509-545-3456

**Nearest Address**

1315 South 4th Ave  
Pasco, WA 99301

**Driving Directions**

1. Start at US-395, Pasco WA 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397 (2.4 mi)
4. Turn right on E. Ainsworth (0.4 mi)
5. Turn left on S2nd Ave (482 ft )
6. Turn right on E Washington St (0.1 mi)
7. Turn left on S 4th Ave (46 ft)
8. Finish at 1315 South 4th Ave, 99301. Boat launch on the left across from Columbia Marine

# Clover Island boat launch

SA-M-328.9R

## Staging Area

**Position - Location:** 46° 13.034', -119° 6.955'      46° 13' 2.0", -119° 6' 57.3"      46.21724, -119.11592      Kennewick

**Comments:** Lighted paved lots for staging, 3 boat ramps, Marina, & ECY spill trailer at the other end of the island by USCG station



## GRP Response Strategies Served:

M-328.9R, M-329.0M

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	1
Boat Ramp(s)	Concrete, Solid	3 ramps, 8 & 5 degree grades
Boathouse	No	
Cell Phone Coverage	Yes	
Estimated Lot Size		50,000
Fuel	Yes	Marina has fuel & boom (hard & sorbents)
Parking - Car	Marked	30
Power	Yes	Marina next door
Restroom	Restroom - Flush	2
User Fee	No	
Waste Disposal	Trash Receptacle	



SA-M-328.9R Photo: Clover Island boat launch



**Site Contact**

**Port of Kennewick**  
 Land/Property Contact : Manages Clover Island boat launch (they have boom)

Kennewick, WA 99336  
 509-586-1186

**Nearest Address**

350 Clover Island Dr.  
 Kennewick, WA 99336

**Driving Directions**

1. Head south on US-395 S (0.7 mi)
2. Continue straight onto N Oregon Ave (2.4 mi)
3. Turn right onto E Ainsworth St (1.1 mi)
4. Turn left onto WA-397/ S10th Ave
- Continue to follow WA-397 (0.8 mi)
5. Turn right onto E Columbia Dr (0.5 mi)
6. Turn right onto N Clover Island Dr
- Destination will be on the left (0.7 mi)

# Columbia Park East boat launch (Kennewick)

SA-M-330.2R

## Staging Area

**Position - Location:** 46° 13.337', -119° 8.326'      46° 13' 20.2", -119° 8' 19.6"      46.22229, -119.13877      Richland

**Comments:** Large lighted/paved staging area & 4 boat ramps, with 7 degree avg grade



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	3 floating docks
Boat Ramp(s)	Concrete, Solid	1 double & 2 single ramps, avg 7* grade
Cell Phone Coverage	Yes	
Parking - Car	Marked	50
Parking - Trailer	Marked	100
Power	Yes	
Restroom	Restroom - Flush	One brick restroom at launch
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	In restroom

## GRP Response Strategies Served:

M-330.3R

# Columbia Park East boat launch (Kennewick)

SA-M-330.2R



SA-M-330.2R Photo: Columbia Park East boat launch (Kennewick)



## Site Contact

**City of Kennewick Parks, Rec & Tourism**  
 Land/Property Contact : Manages boat launches  
 Kennewick, WA 99352

## Nearest Address

1106 Columbia Park Trail  
 Richland, WA 99336

## Driving Directions

1. Head south on US-395 S
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. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (0.2 mi)
6. Take the exit toward W Columbia Dr (0.1 mi)
7. Continue onto Columbia Park Trail (453 ft)
8. At the traffic circle, take the 1st exit and stay on Columbia Park Trail (0.2 mi)
9. At the next traffic circle, take the 2nd exit and stay on Columbia Park Trail (0.5 mi)
10. Stay on Columbia Park Trail, your destination will be on your left (0.5 mi)

# Wade Park Boat Launch

SA-M-331.4L

## Staging Area

**Position - Location:** 46° 13.958', -119° 9.720'      46° 13' 57.5", -119° 9' 43.2"      46.23264, -119.16200      Pasco

**Comments:** Large paved lot & two boat ramps



## GRP Response Strategies Served:

M-331.4L

## Location Information

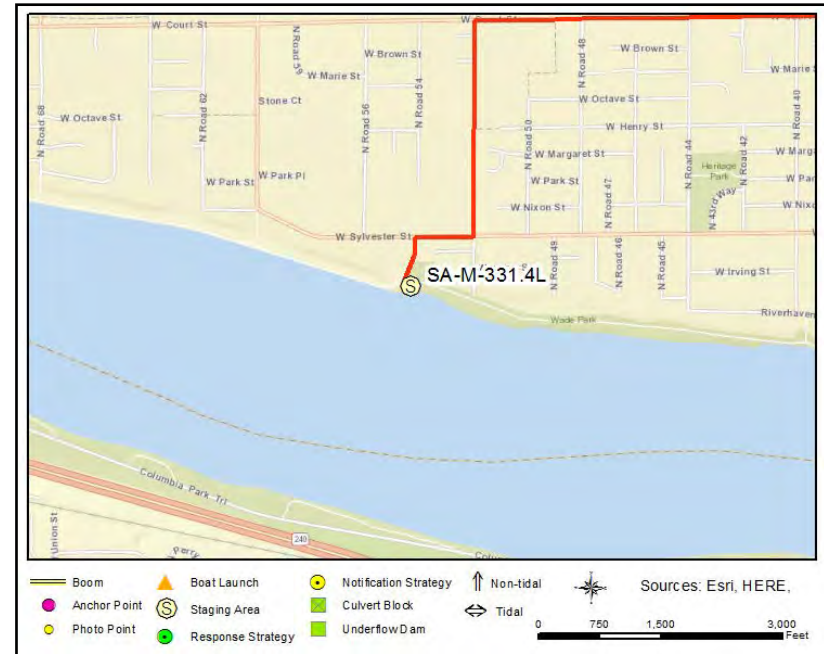
Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	One floating dock
Boat Ramp(s)	Concrete, Solid	Two concrete ramps, 6 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		65000 sq ft
Parking - Car	Marked	14
Parking - Trailer	Marked	16
Power	No	
Restroom	Restroom - Portable	
User Fee	No	1 None but open 8am-10pm
Waste Disposal	Trash Receptacle	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

# Wade Park Boat Launch

SA-M-331.4L



SA-M-331.4L Photo: Wade Park Boat Launch



## Site Contact

### City of Pasco Recreation Service

Land/Property Contact :

Pasco, WA 99301  
509-545-3456

## Nearest Address

601 Road 54  
Pasco, WA 99301

## Driving Directions

1. Head south on US-395 S
2. Take the Court St exit (0.3 mi)
3. Turn right onto W Court St (0.2 mi)
4. Turn left onto N Rd 34 (0.5 mi)
5. Turn right onto W Sylvester St (1.3 mi)
6. Turn left onto Rd 54, destination will be on the left (341 ft)



# Columbia Park West

SA-M-332.8R

## Staging Area

**Position - Location:** 46° 13.852', -119° 11.493'      46° 13' 51.1", -119° 11' 29.6"      46.23087, -119.19155      Kennewick

**Comments:** Paved lighted staging area with concrete boat ramp



## GRP Response Strategies Served:

M-332.8R

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single concrete ramp 7.5 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		22,500 sq ft
Parking - Car	Marked	10
Parking - Trailer	Marked	15
Power	Unknown	Building may be available from Kennewick
Restroom	Restroom - Portable	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Unknown	Kennewick building maybe



SA-M-332.8R Photo: Columbia Park West boat launch



**Site Contact**

**City of Kennewick Parks, Rec & Tourism**  
 Primary Contact : Manages boat launches

Kennewick, WA 99352

**Nearest Address**

1548 N Edison St.  
 Kennewick, WA 99336

**Driving Directions**

1. Starting at US-395 S in Pasco
2. Turn right to merge onto I-182 W/ US12 W toward Kennewick/ Richland/ Yakima (0.5 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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (2.6 mi)
6. Take the Edison St exit (0.3 mi)
7. Turn right onto N Edison St (0.1 mi)
8. Turn right onto Columbia Park Trail (79 ft)

# Chiawana Park boat launch

SA-M-333.9L

## Staging Area

**Position - Location:** 46° 14.631', -119° 12.378'      46° 14' 37.9", -119° 12' 22.7"      46.24385, -119.20630      Pasco

**Comments:** Boat launch with two ramps 7degree grade, plus a park with staging area



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	1 floating dock
Boat Ramp(s)	Concrete, Solid	Two concrete ramps 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		34,000 sq ft
Parking - Car	Marked	60
Parking - Trailer	Marked	15
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	No fee but gated
Waste Disposal	Trash Receptacle	Dumpster and cans
Water (potable)	Yes	

## GRP Response Strategies Served:

M-333.3M

# Chiawana Park boat launch

SA-M-333.9L



SA-M-333.9L Photo: Chiawana Park boat launches



## Site Contact

### City of Pasco Recreation Service

Land/Property Contact :

Pasco, WA 99301  
509-545-3456

## Nearest Address

100 Chiawana Park Rd  
Pasco, WA 99301

## Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (4.9 mi)
3. Take exit 9 for Rd 68 (0.4 mi)
4. Turn left onto N Rd 68 (0.8 mi)
5. Turn right onto W Argent Rd (1.3 mi)
6. Turn left onto Rd 88 (0.6 mi)
7. Turn left onto Schuman Ln/Chiawana Park Rd (0.3 mi)

# Columbia Park Marina

SA-M-334.0R

## Staging Area

**Position - Location:** 46° 14.286', -119° 13.149'      46° 14' 17.2", -119° 13' 8.9"      46.23810, -119.21915      Richland

**Comments:** Large marina with 3 public boat ramps, 7-8 degree grade, and lots of lighted parking



## GRP Response Strategies Served:

M-334.0R, M-334.3M

## Location Information

Asset	Type/Status	Amount/Number
		Marina has 4 boat houses
Boat Dock(s)	Yes	Room for ~40 boats at docks
Boat Ramp(s)	Concrete, Solid	Three concrete ramps 7-8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Paved and striped 70,000 sq ft
Fuel	Yes	
Parking - Car	Marked	55
Parking - Trailer	Marked	40
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	
Water (potable)	Yes	



SA-M-334.0R Photo: Columbia Park Marina boat launches



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

1776 Columbia Park Trail  
 Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US-395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (4.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)
8. Turn right on Columbia Park Trail, destination will be on the left (0.3 mi)

# Columbia Point Marine Park boat launch

SA-M-336.4R

## Staging Area

**Position - Location:** 46° 15.832', -119° 14.984'      46° 15' 49.9", -119° 14' 59.0"      46.26387, -119.24973      Richland

**Comments:** Marina & park lighted staging area with four boat ramps



## GRP Response Strategies Served:

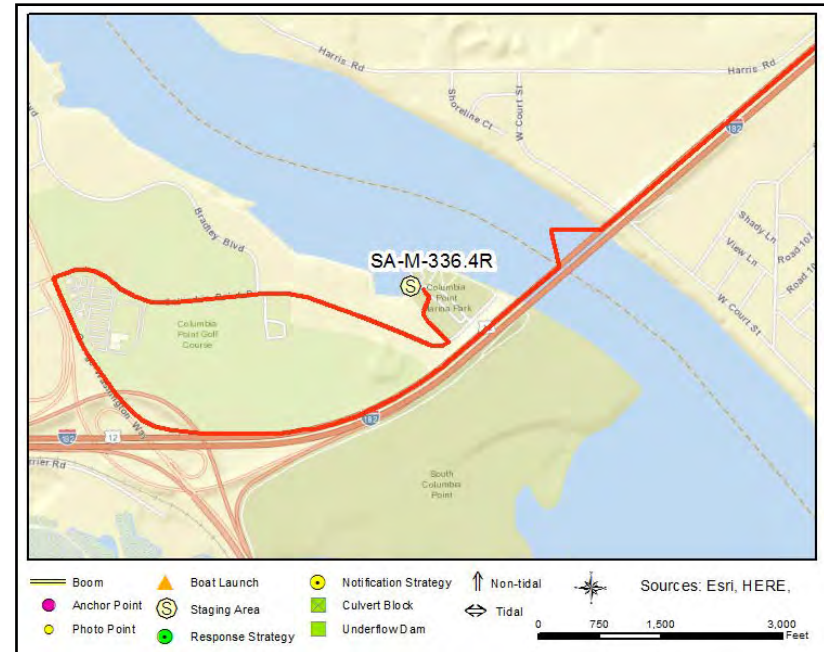
M-335.8R, M-336.4R

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	dock space for ~35 boats
Boat Ramp(s)	Concrete, Solid	Four concrete ramps 7-8 degrees
Cell Phone Coverage	Yes	4 G 4 bars
Estimated Lot Size		155,000 sq ft
Fuel	Yes	Fuel dock
Parking - Car	Marked	65
Parking - Trailer	Marked	125
Power	Yes	20 amp
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	receptacles/dump out station
Water (potable)	Yes	Restrooms/drinking fountains



SA-M-336.4R Photo: Columbia Point Marine Park boat ramps



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

660 Columbia Point Drive  
 Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (0.8 mi)
4. Turn right onto Columbia Point Drive, destination will be on the left (0.8 mi)
5. Finish at 660 Columbia Point Drive, 99352



# Howard Amon Park

SA-M-337.8R

## Staging Area

**Position - Location:** 46° 16.859', -119° 16.326'      46° 16' 51.5", -119° 16' 19.6"      46.28098, -119.27210      Richland

**Comments:** Paved lighted staging area and two ramps, each with a 7 degree grade



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Three floating docks
Boat Ramp(s)	Concrete, Solid	Two ramps with 7 degree grade each
Cell Phone Coverage	Yes	4 G 2 bars
Estimated Lot Size		63,000 sq ft
Parking - Car	Marked	40
Parking - Trailer	Marked	38
Power	Yes	20 amp
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Water faucet

## GRP Response Strategies Served:

M-337.8R



SA-M-337.8R Photo: Howard Amon Park boat ramps



### Site Contact

**City of Richland Parks and Recreation Department**  
 Land/Property Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

### Nearest Address

900 Amon Park Road North,  
 Richland, WA 99352

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (1.8 mi)
4. Turn right onto Newton St (486 ft)
5. Take the 1st left onto Amon Park Rd N, destination will be on the right (0.1 mi)
6. Finish at 900 Amon Park Road North,, 99352, on the right

# Leslie Groves Park boat launch

SA-M-340.3R

## Staging Area

**Position - Location:** 46° 18.864', -119° 15.634'      46° 18' 51.8", -119° 15' 38.0"      46.31439, -119.26056      Richland

**Comments:** Lighted paved staging area with three concrete boat ramps



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Two floating docks
Boat Ramp(s)	Concrete, Solid	Three concrete ramps 7-8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		63,000 sq ft
Parking - Car	Marked	30
Parking - Trailer	Marked	58
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	

## GRP Response Strategies Served:

M-340.3R



SA-M-340.3R Photo: Leslie Groves Park boat launch



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch

Richland, WA 99352  
 509-942-7529

**Nearest Address**

2 Snyder Street  
 Richland, WA 99354

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (4.3 mi)
4. Turn right onto Snyder St (0.6 mi)
5. Turn right into the parking lot of the Leslie Groves Park boat launch

# Selph Landing boat launch

SA-M-340.7L

## Staging Area

**Position - Location:** 46° 19.267', -119° 14.912'      46° 19' 16.0", -119° 14' 54.7"      46.32112, -119.24853      Pasco

**Comments:** Primitive launch with room for staging area



## Location Information

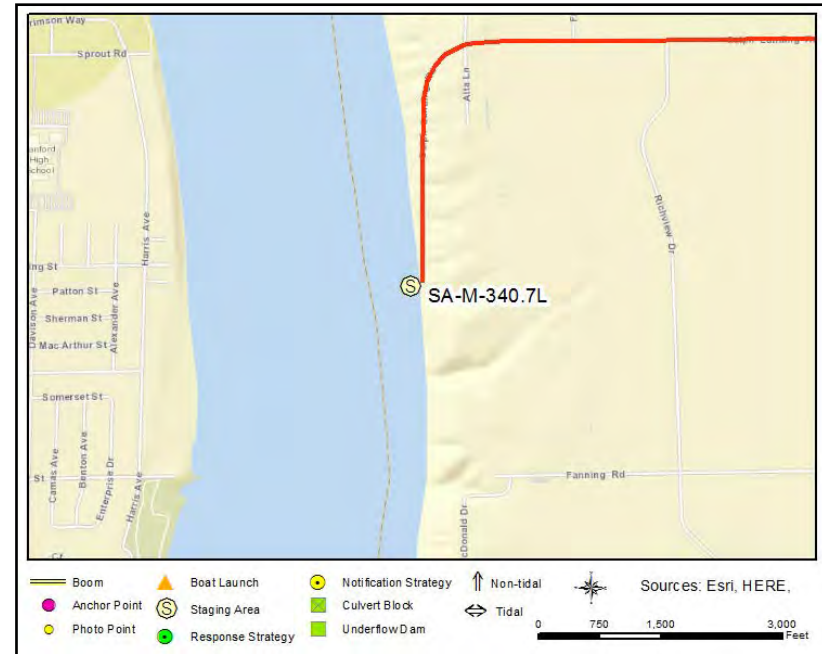
Asset	Type/Status	Amount/Number
Boat Ramp(s)	Gravel	Single gravel launch 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		7,500 sq ft
Parking - Car	Gravel	15
Parking - Trailer	Gravel	15
Power	No	
Restroom	Restroom - Portable	1
User Fee	No	
Waste Disposal	None	None
Water (potable)	No	

## GRP Response Strategies Served:

M-340.7L



SA-M-340.7L Photo: Selph Landing primitive boat launch



### Site Contact

**USACE Ice Harbor pool**  
 Primary Contact : Tri-Rivers Natural Resources Management Office  
  
 Ice Harbor Dam, WA  
 509-547-2048

### Nearest Address

10099 Selph Landing Rd  
 Pasco, WA 99301

### Driving Directions

1. Start at US-395 S, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr
3. Turn right on W Vineyard Dr (1.2 mi)
4. Turn right on N Oregon St (0.1 mi)
5. Turn left on Selph Landing Rd (7 mi)
6. Finish at 10099 Selph Landing Rd, 99301, on the left

# Sacajawea State Park & Boat Launch

SA-MSN-1.0R

## Staging Area

**Position - Location:** 46° 12.100', -119° 2.301'      46° 12' 6.0", -119° 2' 18.1"      46.20166, -119.03835      Pasco

**Comments:** Stage equipment near boat launch within park. Park is gated; coordinate use and access with Park Ranger. Call 509-545-2361 or 509-730-0229. 2-Lane Boat Ramp (~7 degree grade)



## GRP Response Strategies Served:

M-324.6M, MSN-0.8M, M-324.44M, MSN-1.0R, M-326.1M, MSN-1.56R, M-324.37M

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	2
Boat Ramp(s)	Concrete, Solid	2 Lanes
Cell Phone Coverage	Yes	
Estimated Lot Size		40,000 SqFt
Parking - Car	Gravel	40 (Unmarked)
Parking - Trailer	Gravel	20 (Unmarked)
Power	Yes	N/A
Restroom	Restroom - Flush	1 Mens; 1 Womens
User Fee	Yes	\$5 Boat Launch
Waste Disposal	Trash Receptacle	N/A
Water (potable)	Yes	N/A



SA-MSN-1.0R Photo: Sacajawea State Park boat launch



### Site Contact

**Washington State Parks and Recreation Commission**  
Primary Contact : Sacajawea State Park

Pasco, WA 99301  
509-545-2361

### Nearest Address

2503 Sacajawea Park Road  
Pasco, WA 99301

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA 99301



# Grain Terminal Rd USACE boat launch

SA-MSN-2.2L

## Staging Area

**Position - Location:** 46° 12.642', -119° 1.070'      46° 12' 38.5", -119° 1' 4.2"      46.21070, -119.01784      Burbank

**Comments:** 11,00 sq ft Gravel lot by 1 concrete boat ramp, opposite side of the inlet is additional 12,325 sq ft gravel lot with bathroom



## GRP Response Strategies Served:

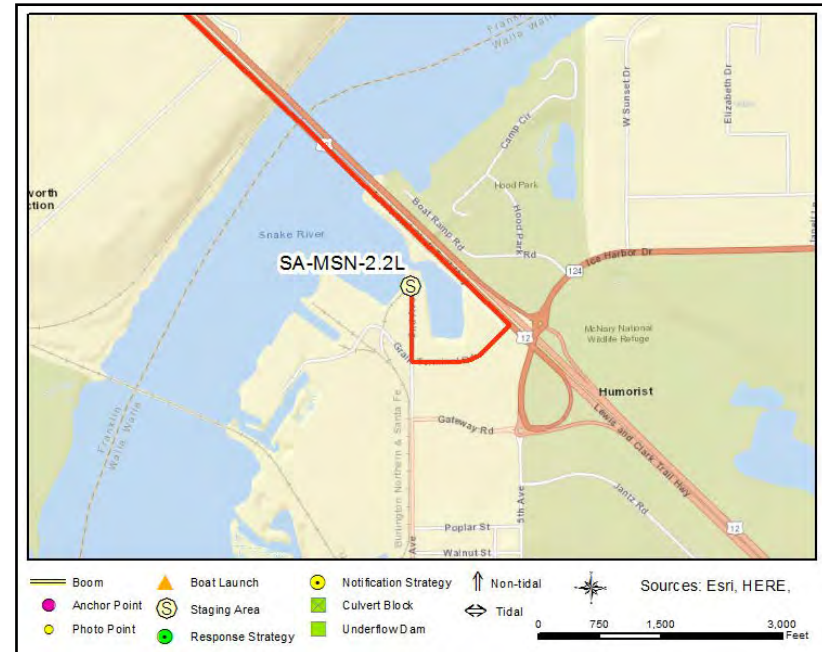
MSN-2.1L, MSN-1.55L

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Floating dock
Boat Ramp(s)	Concrete, Solid	Single concrete ramp 7 degree grade gate
Cell Phone Coverage	Yes	
Estimated Lot Size		23,500 sq ft
Parking - Car	Gravel	20
Parking - Trailer	Gravel	20
Power	No	
Restroom	Restroom - Portable	Portable by ramp, vault @other parking
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	No	



SA-MSN-2.2L Photo: Grain Terminal Rd USACE boat launch



**Site Contact**

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager

McNary Dam, OR  
 541-922-2268

**Nearest Address**

577 S 2nd Street  
 Burbank, WA 99323

**Driving Directions**

1. Start at 100 Hwy 12, Pasco, WA 99301
2. Go west on I-182 (US-12 W) toward 12a (1.58 miles)
3. Make U-turn and go back on I-182 (US-12 E) (4.44 miles)
4. Continue on US-12 (3.79 miles)
5. Turn right on Grain Terminal Rd (0.26 miles)
6. Turn left on 2nd Ave (0.2 miles)
7. Finish at 577 S 2nd Street, 99323, on the right

# Hood Park USACE boat launch

SA-MSN-2.3L

## Staging Area

**Position - Location:** 46° 12.875', -119° 1.143'      46° 12' 52.5", -119° 1' 8.6"      46.21458, -119.01905      Burbank

**Comments:** Paved 41,600 sq ft lot, lighted, 3 ramps @ 6.5 degree grade with floating docks



## GRP Response Strategies Served:

MSN-4.0M, MSN-8.4M, MSN-4.6M, MSN-2.8L

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Two floating docks & one perm dock
Boat Ramp(s)	Concrete, Solid	Three concrete ramps, 6.5 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		41,000 sq ft
Parking - Car	Marked	50
Parking - Trailer	Marked	40
Power	Yes	In campground or maint bldg
Restroom	Restroom - Portable	Additional flush toilets at campground
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	In campground or maint bldg



SA-MSN-2.3L Photo: Hood Park USACE boat launch



### Site Contact

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager

McNary Dam, OR  
 541-922-2268

### Nearest Address

100 Hood Park Road  
 Burbank, WA 99323

### Driving Directions

1. From Pasco take US-395 S
2. Turn right onto N 20th Ave (0.3 mi)
3. Turn right to merge onto I-182 E/ US-12 E toward Walla Walla (1.4 mi)
4. Continue onto US-12 E (5.0 mi)
5. Take the Washington 124 exit toward Burbank/ Waitsburg (0.2 mi)
6. Keep right at the fork and merge onto Ice Harbor Dr (0.3 mi)
7. Slight right to stay on Ice Harbor Dr (0.1 mi)
8. Turn left onto Hood Park Rd- go straight to the launch at the end (0.5 mi)

# Ice Harbor North Shore Recreation Area boat launch

SA-SIH-9.9R

## Staging Area

**Position - Location:** 46° 15.187', -118° 52.634'      46° 15' 11.2", -118° 52' 38.0"      46.25312, -118.87723      Pasco

**Comments:** Paved staging area with two concrete boat ramps, 7 degree grade



## GRP Response Strategies Served:

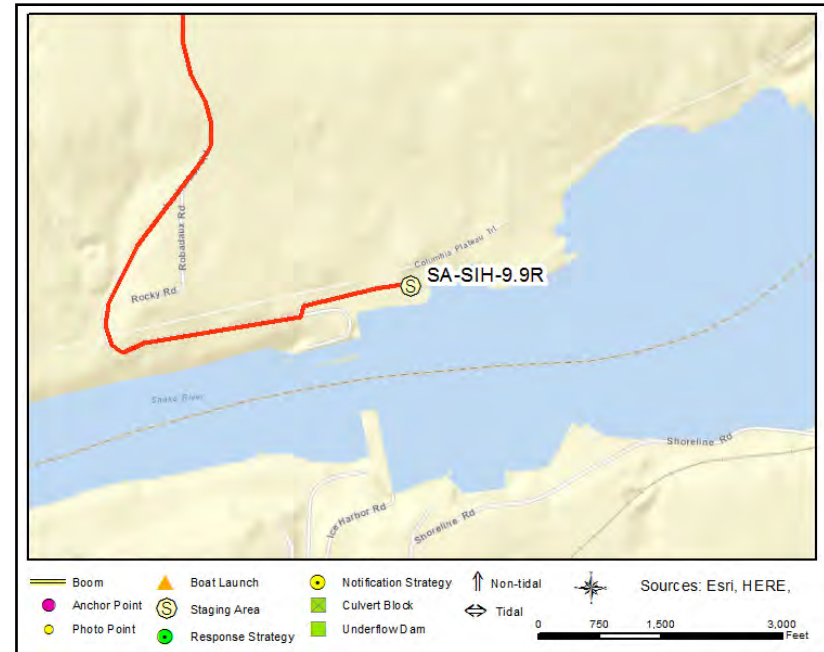
SIH-10.2L, SIH-10.0R, [MSN-9.5R](#), SIH-9.8R

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	1
Boat Ramp(s)	Concrete, Solid	2 lanes, 7 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		52,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	12
Parking - Trailer	Marked	26
Power	No	
Restroom	Restroom - Vault	2
User Fee	No	
Waste Disposal	Trash Receptacle	Dumpster
Water (potable)	No	



SA-SIH-9.9R Photo: Ice Harbor North Shore Recreation Area and Boat Ramp



**Site Contact**

**USACE Ice Harbor pool**

Primary Contact : Tri-Rivers Natural Resources Management Office

Ice Harbor Dam, WA  
509-547-2048

**Nearest Address**

1240 Ice Harbor Rd  
Pasco, WA 99301

**Driving Directions**

1. Starting from Pasco, WA head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (1.7 mi)
3. Take the exit toward Kahlotus (0.4 mi)
4. Turn right onto E Lewis St (0.2 mi)
5. Continue onto Pasco Kahlotus Rd (8.9 mi)
6. Turn right onto Ice Harbor Rd, destination will be on the left (3.1 mi)

# Madame Dorion Memorial Park USF&W boat launch

SA-WWR-4.0R

## Staging Area

**Position - Location:** 46° 3.739', -118° 54.209'      46° 3' 44.3", -118° 54' 12.5"      46.06231, -118.90348      Touchet

**Comments:** Gravel lot next to 1 concrete boat ramp



## GRP Response Strategies Served:

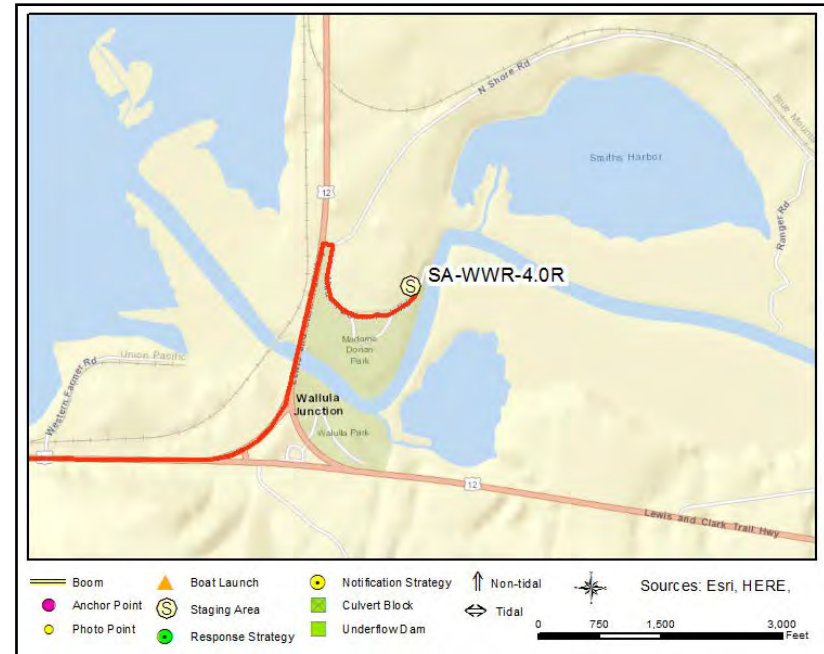
WWR-4R, M-314.7L

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	USF&W single boat ramp concrete 7 degree
Cell Phone Coverage	Yes	
Estimated Lot Size		14,000 sq ft
Lot Cover (Primary)	Dirt/Gravel	
Parking - Car	Gravel	20
Parking - Trailer	Gravel	20
Power	No	
Restroom	Restroom - Portable	Portable + vault roadside
User Fee	No	no fee, open 24 hours
Waste Disposal	None	none
Water (potable)	No	



SA-WWR-4.0R Photo: Madam Dorion US Fish & Wildlife boat launch on the Walla Walla River (confluence at Columbia River mile 314.7)



**Site Contact**

**US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges**  
 Primary Contact : Property Contact  
  
 Burbank, WA 99323  
 509-546-8300

**Nearest Address**

324 Western Farmer Road  
 Touchet, WA 99360

**Driving Directions**

1. Directions to BL-WWR-4R/Madam Dorion Memorial Park, starting in Umatilla, OR head east on US-730 E/6th St toward Eisele Dr  
 Continue to follow US-730 (25.2 mi)
2. Slight left toward US-12 W (0.2 mi)
3. Turn left onto US-12 W (0.4 mi)
4. Turn right onto N Shore Rd (138 ft)
5. Take an immediate right on unnamed road for Madam Dorion boat launch on the right (0.3 mi)



# Wye Park boat launch

SA-YAK-0.5R

## Staging Area

**Position - Location:** 46° 14.319', -119° 13.725'      46° 14' 19.1", -119° 13' 43.5"      46.23865, -119.22875      Richland

**Comments:** Wye Park has 1 gravel ramp 7 degree grade, & area for staging



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Small floating dock
Boat Ramp(s)	Gravel	Gravel ramp with 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		10,500 sq ft
Parking - Car	Marked	10
Parking - Trailer	Marked	4
Power	Yes	Power at restroom
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Water at restroom

## GRP Response Strategies Served:

YAK-0.5R



SA-YAK-0.5R Photo: Wye Park boat launch



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

1600 Columbia Park Trail  
 Richland, WA 99352

**Driving Directions**

Driving Directions to Boat Launch/Staging Area (SA-YAK-0.5R/BL-YAK-0.5R) Wye Park

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (4.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail, destination will be on the right (0.2 mi)
9. Finish at 1600 Columbia Park Trail, 99352, on the right

**APPENDIX 4D**  
**Boat Launch 2-Pagers**

# BOAT LAUNCHES LIST

<b>BL-M-292.6L</b>	<b>BL-M-292.6R</b>	<b>BL-M-298.7L</b>	<b>BL-M-299.1L</b>	<b>BL-M-300.0L</b>
<b>BL-M-312.3L</b>	<b>BL-M-320.7L</b>	<b>BL-M-324.3R</b>	<b>BL-M-328.1L</b>	<b>BL-M-328.9R</b>
<b>BL-M-330.2R</b>	<b>BL-M-331.4L</b>	<b>BL-M-332.8R</b>	<b>BL-M-333.9L</b>	<b>BL-M-334.0R</b>
<b>BL-M-336.4R</b>	<b>BL-M-337.8R</b>	<b>BL-M-340.3R</b>	<b>BL-M-340.7L</b>	<b>BL-MSN-1.0R</b>
<b>BL-MSN-2.2L</b>	<b>BL-MSN-2.3L</b>	<b>BL-SIH-9.9R</b>	<b>BL-WWR-4R</b>	<b>BL-YAK-0.5R</b>

# McNary South Shore boat launch

BL-M-292.6L

## Boat Launch Location

**Position - Location:** 45° 55.633', -119° 17.422'      45° 55' 38.0", -119° 17' 25.3"      45.92721, -119.29036      Umatilla

**Comments:** USACE paved, lighted lot & three boat ramps 7.5 degree avg grade



## GRP Response Strategies Served:

M-292.6L

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Two floating docks
Boat Ramp(s)	Concrete, Solid	3 Concrete ramps 7-6.5 degree grade double
Cell Phone Coverage	Yes	
Estimated Lot Size		2 95,000 sq ft
Lot Cover (Primary)	Dirt/Gravel	2 Gravel and paved
Parking - Car	Gravel	100
Parking - Trailer	Marked	50
Power	No	
Restroom	Restroom - Vault	4 mens and womens
User Fee	No	always open
Waste Disposal	Trash Receptacle	dumpsters
Water (potable)	No	
Water (potable)	No	



SA-M-292.6L Photo: South Shore McNary double boat ramp



**Site Contact**

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager

McNary Dam, OR  
 541-922-2268

**Nearest Address**

100 Launch Lane  
 Umatilla, OR 97882

**Driving Directions**

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. Turn left (20 ft)
7. Turn right (312 ft), destination will be on the left

# McNary Dam North Shore boat launch

BL-M-292.6R

## Boat Launch Location

**Position - Location:** 45° 56.627', -119° 17.936'      45° 56' 37.6", -119° 17' 56.2"      45.94378, -119.29894      Kennewick

**Comments:** Paved USACE staging area and concrete boat ramp



## Location Information

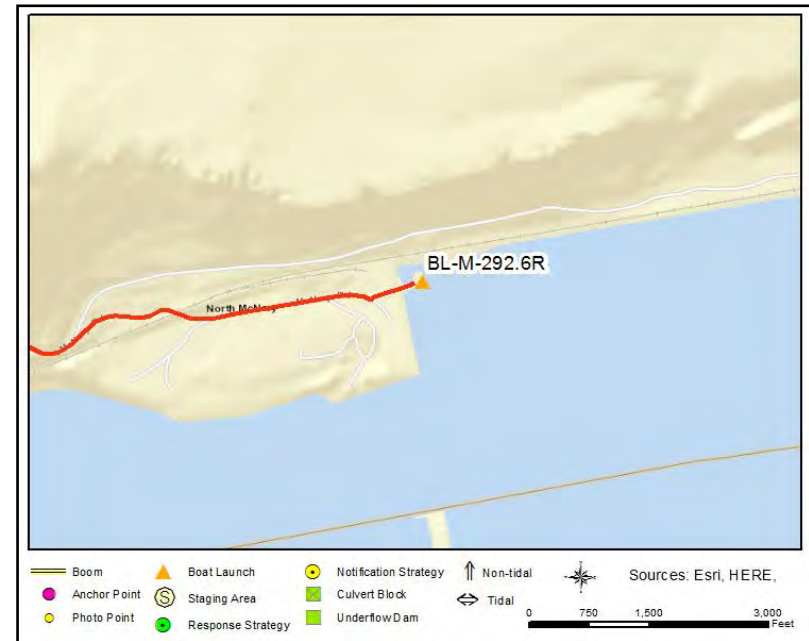
Asset	Type/Status	Amount/Number
Boat Ramp(s)	Concrete, Solid	Single ramp 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		77,000 sq ft
Estimated Lot Size		77,000 sq ft
Parking - Car	Gravel	50
Power	No	
Restroom	Restroom - Vault	1
User Fee	No	
Waste Disposal	Trash Receptacle	Trash cans & dumpster
Water (potable)	No	

## GRP Response Strategies Served:

M-292.6R, M-293.7R, M-292.63R



SA-M-292.6R Photo: North Shore McNary Dam boat launch



**Site Contact**

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager  
  
 McNary Dam, OR  
 541-922-2268

**Nearest Address**

81226 Mc Nary Rd  
 Kennewick, WA 99338

**Driving Directions**

1. Starting at I-82 take Exit 131
2. Head north on Exit 131 toward WA-14 W (0.2 mi)
3. Turn right on McNary Rd (1.0 mi)
4. Keep right on McNary Rd, your destination will be on the left (0.7 mi)
5. Finish at 81226 Mc Nary Rd, 99338, on the right



# Hat Rock State Park

BL-M-298.7L

## Boat Launch Location

**Position - Location:** 45° 55.062', -119° 10.467'      45° 55' 3.7", -119° 10' 28.0"      45.91770, -119.17445      Hermiston

**Comments:** Stage in Parking Area near Boat Ramps. Notify Hat Rock State Park before staging equipment and for access assistance; call 541-910-6285 or 541-983-2277.



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	2
Boat Ramp(s)	Concrete, Solid	2 (7.4 degree grade)
Cell Phone Coverage	Yes	Verizon
Estimated Lot Size		87,000 sqft
Parking - Car	Marked	100
Parking - Trailer	Marked	50
Power	Yes	In Restroom
Restroom	Restroom - Flush	2
User Fee	No	
Waste Disposal	Trash Receptacle	Multiple
Water (potable)	Yes	In Restroom

## GRP Response Strategies Served:

M-299.8L, M-299.9R, M-301.5L, M-305.9L, M-301.1L, M-298.7L, M-299.5M, M-301.6L



SA-M-298.7L Photo: Hat Rock State Park boat launch



**Site Contact**

**Hat Rock State Park**  
 Primary Contact : Manager  
  
 Hermiston, OR 97838  
 541-910-6285

**Nearest Address**

82200 Hat Rock Rd  
 Hermiston, OR 97838

**Driving Directions**

DIRECTIONS TO STAGING AREA/BOAT LAUNCH (SA-M298.7L & BL-M-298.7L)

1. From Pasco, Head east on Hwy 12 (US-12 E) towards Oregon
2. After 16.2mi, in Wallula Junction, stay to the right to continue on Hwy 730
3. After 5.8mi, stay on Hwy 730 as you cross into Oregon
4. After 11.1mi, turn right onto Hat Rock Road
5. After 0.7mi, continue straight to stay on Hat Rock State Park Road.
6. After 0.5mi, parking area and boat launch are at end of road. Stage equipment in parking area near boat ramp.

# McNary Yacht Club boat launch

BL-M-299.1L

## Boat Launch Location

**Position - Location:** 45° 55.202', -119° 9.882'      45° 55' 12.1", -119° 9' 52.9"      45.92003, -119.16470      Hermiston

**Comments:** Marina staging area and launch with one concrete ramp



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Marina
Boat Ramp(s)	Concrete, Solid	USACE public, single ramp 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		12,500 sq ft
Fuel	Yes	Marina
Power	Yes	Marina
Restroom	Restroom - Flush	Marina is private - need permission
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Marina

## GRP Response Strategies Served:

M-299.4L



SA-M-299.1L Photo: McNary Yacht Club (USACE) public boat launch

**Site Contact**

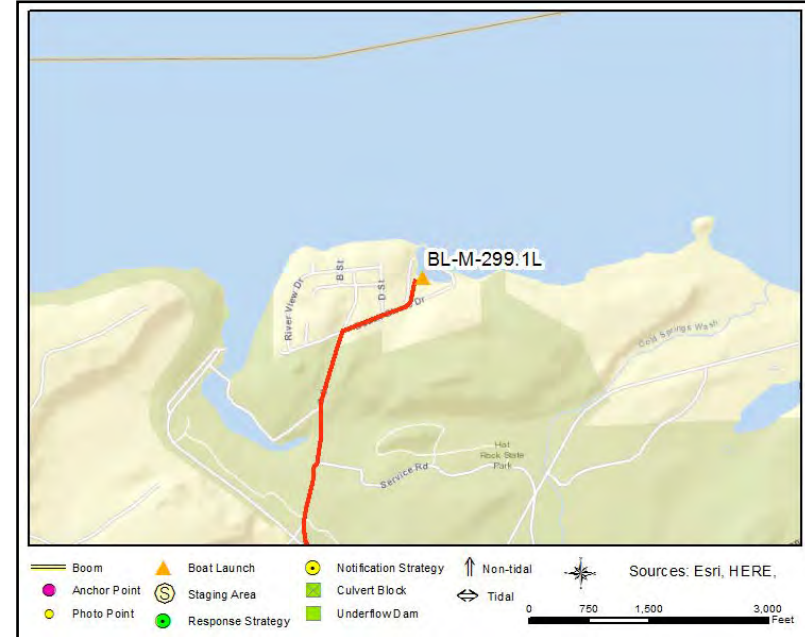
**USACE McNary pool**

Primary Contact : Natural Resource Manager

McNary Dam, OR  
541-922-2268

**Nearest Address**

34099 Beach Shore Drive  
Hermiston, OR 97838



**Driving Directions**

**DIRECTIONS TO STAGING AREA/BOAT LAUNCH**

1. Start at I-82, Umatilla, OR 97882
2. Get off on Exit 1 going east on US-730/6th St (7.9 mi)
3. Make sharp left on Hat Rock State Park Rd (0.7 mi)
4. Turn right on C Street
4. Bear right on Beach Shore Dr (0.2 mi)
5. Continue straight to finish at the McNary Yacht Club 34099 Beach Shore Drive, 97838 on your left

# Warehouse Beach Rec Area boat launch

BL-M-300.0L

## Boat Launch Location

**Position - Location:** 45° 55.175', -119° 8.594'      45° 55' 10.5", -119° 8' 35.7"      45.91958, -119.14324      Hermiston

**Comments:** Primitive launch with gravel ramp & staging area



## Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Gravel	Primitive 7 degree gravel ramp
Estimated Lot Size		25,000 sq ft
Parking - Car	Gravel	20
Parking - Trailer	Gravel	10
Power	No	
Restroom	Restroom - Vault	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

## GRP Response Strategies Served:

M-300.0L, M-300.9L, M-302.3R, M-300.3L



SA-M-300.0L Photo: USACE Warehouse Beach Rec Area boat launch



**Site Contact**

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager  
  
 McNary Dam, OR  
 541-922-2268

**Nearest Address**

100 Landing Rd  
 Hermiston, OR 97838

**Driving Directions**

1. Starting at I-82 in Umatilla, OR
2. Turn left onto US-395 S/ US-730 E/6th St (signs for Mc Nary Dam/ Hermiston) Continue to follow US-730 E (9.2 mi)
3. Slight right onto OR-37 S (0.2 mi)
4. Turn left onto Landing Rd, Warehouse Beach Recreation Area will be on the right (0.6 mi)

# Walla Walla Yacht Club

BL-M-312.3L

## Boat Launch Location

**Position - Location:** 46° 1.585', -118° 56.196'      46° 1' 35.1", -118° 56' 11.7"      46.02641, -118.93659      Touchet

**Comments:** Paved staging area, private marina & USACE boat launch 9 degree grade



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	2
Boat Ramp(s)	Concrete, Solid	USACE 1 public ramp 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		200,000 sq ft
Fuel	Yes	
Parking - Car	Gravel	40
Parking - Trailer	Gravel	20
Power	Yes	Private marina
Restroom	Restroom - Portable	1
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Private marina

## GRP Response Strategies Served:

M-308.8R, M-310.3R, M-311.9R, M-311.4R, M-312.0L, M-309.8R



SA-M-312.3L Photo: Walla Walla Yacht Club, USACE boat launch



**Site Contact**

**Walla Walla Yacht Club**  
 Land/Property Contact : Manages Marina@ USACE's Walla Walla boat launch  
  
 Kennewick, WA 99337  
 509-547-4946

**Nearest Address**

299 Port Kelly Road  
 Touchet, WA 99360

**Driving Directions**

1. Directions to SA-M-312.3L/Wall Walla Yacht Club, starting at 1800 6th St, Umatilla, OR 97882
2. Go east on US-730 (6th St) (21.65 miles)
3. Make sharp left on Port Kelly Rd (0.26 miles)
4. Turn right and pass the grainary, finish at the Walla Walla Yacht Club on the right



# Casey Pond Boat Launch, McNary Wildlife Refuge

BL-M-320.7L

## Boat Launch Location

**Position - Location:** 46° 9.680', -118° 57.297'      46° 9' 40.8", -118° 57' 17.8"      46.16133, -118.95495      Burbank

**Comments:** Staging area and concrete boat launch. Gated after dark bring bolt cutters



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	single concrete ramp 6.8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		22500 sq ft
Lot Cover (Primary)	Asphalt	gravel lot
Parking - Car	Gravel	30
Parking - Trailer	Gravel	30
Power	No	
Restroom	None	none
User Fee	No	gated open sunrise/sunset
Waste Disposal	None	none
Water (potable)	No	

## GRP Response Strategies Served:

M-317.0L, M-318.3R, M-319.2M, M-317.5R, M-320.7L, M-317.8M, M-320.6L



SA-M-320.7L Photo: Casey Pond Boat Ramp, McNary Wildlife Refuge



**Site Contact**

**US Fish & Wildlife Service, McNary and Umatilla National Wildlife Refuges**  
 Primary Contact : Property Contact  
  
 Burbank, WA 99323  
 509-546-8300

**Nearest Address**

2955 Hanson Loop Rd  
 Burbank, WA 99323

**Driving Directions**

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp left onto ramp to I-182/US-12 E
5. Continue on I-182/US-12 E (1.4 mi)
6. Continue on US-12 (8.2 mi)
7. Make sharp right on Hanson Loop Rd (0.3 mi)
8. Take the second gravel drive on the left (just before the road curves and the blue line on the attached map ends), go through the gate to the end of the gravel road (0.9 mi).

# Two Rivers Park boat launch

BL-M-324.3R

## Boat Launch Location

**Position - Location:** 46° 11.051', -119° 1.951'      46° 11' 3.1", -119° 1' 57.1"      46.18419, -119.03252      Kennewick

**Comments:** Lighted gravel lot (staging area) with 2 concrete boat ramps, 8 degree grade



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	3 floating docks
Boat Ramp(s)	Concrete, Solid	2 concrete ramps, 7.5 & 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		30,000 sq ft
Parking - Car	Gravel	20
Parking - Trailer	Gravel	15
Power	No	
Restroom	Restroom - Portable	
User Fee	No	gated, may need bolt cutters
Waste Disposal	Trash Receptacle	
Water (potable)	No	

## GRP Response Strategies Served:

M-325.5R, M-324.8R, M-325.7R, M-323.4M, M-323.5M, M-323.2R, M-325.6R, M-324.1M, M-323.9M, M-322.6M



SA-M-324.3R Photo: Two Rivers Park boat launch



**Site Contact**

**Two Rivers Park**  
 Land/Property Contact : Manage Two Rivers Park boat launch  
  
 Kennewick, WA 99337  
 509-531-7106

**Nearest Address**

220880 East Finley Road  
 Kennewick, WA 99337

**Driving Directions**

1. Start at US-395, pasco, wa 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397
4. Make sharp right on E A St
5. Turn left on S 10th Ave
6. Continue on WA-397 (Ed Hendler Brg)
7. At fork keep left on WA-397 (N Gum St/turns into E Chemical Dr)
8. Turn left on E Finley Rd (2.2 mi)
9. Turn left onto gravel road at 220880 East Finley Road (just before S. Stevens Dr), follow gravel road to the end (0.2 mi)

# Pasco Boat Basin Boat Launch

BL-M-328.1L

## Boat Launch Location

**Position - Location:** 46° 13.162', -119° 5.490'      46° 13' 9.7", -119° 5' 29.4"      46.21937, -119.09150      Pasco

**Comments:** Paved staging area & boat launch next to a marina



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	floating dock
Boat Ramp(s)	Concrete, Solid	Usable 1/2 of double ramp 7.5 degree
Cell Phone Coverage	Yes	
Estimated Lot Size		40,000 sq ft
Parking - Car	Other	20
Parking - Trailer	Other	20
Power	No	marina has power
Restroom	Restroom - Vault	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	No	Marina has water

## GRP Response Strategies Served:

M-327.1L, M-328.0L, M-328.4L, M-325.89L, M-326.5L



SA-M-328.1L Photo: Pasco Boat Basin launch



**Site Contact**

**City of Pasco Recreation Service**  
 Land/Property Contact :  
  
 Pasco, WA 99301  
 509-545-3456

**Nearest Address**

1315 South 4th Ave  
 Pasco, WA 99301

**Driving Directions**

1. Start at US-395, Pasco WA 99301
2. Go south on US-395 toward W Vineyard Dr
3. Continue on WA-397 (2.4 mi)
4. Turn right on E. Ainsworth (0.4 mi)
5. Turn left on S 2nd Ave (482 ft )
6. Turn right on E Washington St (0.1 mi)
7. Turn left on S 4th Ave (46 ft)
8. Finish at 1315 South 4th Ave, 99301. Boat launch on the left across from Columbia Marine

# Clover Island boat launch

BL-M-328.9R

## Boat Launch Location

**Position - Location:** 46° 13.034', -119° 6.955'      46° 13' 2.0", -119° 6' 57.3"      46.21724, -119.11592      Kennewick

**Comments:** Lighted paved lots for staging, 3 boat ramps, Marina, & ECV spill trailer at the other end of the island by USCG station



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	1
Boat Ramp(s)	Concrete, Solid	3 ramps, 8 & 5 degree grades
Boathouse	No	
Cell Phone Coverage	Yes	
Estimated Lot Size		50,000
Fuel	Yes	Marina has fuel & boom (hard & sorbents)
Parking - Car	Marked	30
Power	Yes	Marina next door
Restroom	Restroom - Flush	2
User Fee	No	
Waste Disposal	Trash Receptacle	

## GRP Response Strategies Served:

M-328.9R, M-329.0M



SA-M-328.9R Photo: Clover Island boat launch



**Site Contact**

**Port of Kennewick**  
 Land/Property Contact : Manages Clover Island boat launch (they have boom)  
  
 Kennewick, WA 99336  
 509-586-1186

**Nearest Address**

350 Clover Island Dr.  
 Kennewick, WA 99336

**Driving Directions**

1. Head south on US-395 S (0.7 mi)
2. Continue straight onto N Oregon Ave (2.4 mi)
3. Turn right onto E Ainsworth St (1.1 mi)
4. Turn left onto WA-397/ S10th Ave  
 Continue to follow WA-397 (0.8 mi)
5. Turn right onto E Columbia Dr (0.5 mi)
6. Turn right onto N Clover Island Dr  
 Destination will be on the left (0.7 mi)



# Columbia Park East boat launch (Kennewick)

BL-M-330.2R

## Boat Launch Location

**Position - Location:** 46° 13.337', -119° 8.326'      46° 13' 20.2", -119° 8' 19.6"      46.22229, -119.13877      Richland

**Comments:** Large lighted/paved staging area & 4 boat ramps, with 7 degree avg grade



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	3 floating docks
Boat Ramp(s)	Concrete, Solid	1 double & 2 single ramps, avg 7* grade
Cell Phone Coverage	Yes	
Parking - Car	Marked	50
Parking - Trailer	Marked	100
Power	Yes	
Restroom	Restroom - Flush	One brick restroom at launch
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	In restroom

## GRP Response Strategies Served:

M-330.3R

# Columbia Park East boat launch (Kennewick)

BL-M-330.2R



SA-M-330.2R Photo: Columbia Park East boat launch (Kennewick)



## Site Contact

### City of Kennewick Parks, Rec & Tourism

Land/Property Contact : Manages boat launches

Kennewick, WA 99352

## Nearest Address

1106 Columbia Park Trail  
Richland, WA 99336

## Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 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. Continue straight to stay on US-395 S (signs for Kennewick Pendleton) (0.2 mi)
6. Take the exit toward W Columbia Dr (0.1 mi)
7. Continue onto Columbia Park Trail (453 ft)
8. At the traffic circle, take the 1st exit and stay on Columbia Park Trail (0.2 mi)
9. At the next traffic circle, take the 2nd exit and stay on Columbia Park Trail (0.5 mi)
10. Stay on Columbia Park Trail, your destination will be on your left (0.5 mi)

# Wade Park Boat Launch

BL-M-331.4L

## Boat Launch Location

**Position - Location:** 46° 13.958', -119° 9.720'      46° 13' 57.5", -119° 9' 43.2"      46.23264, -119.16200      Pasco

**Comments:** Large lighted paved lot & two boat ramps



## GRP Response Strategies Served:

M-331.4L

## Location Information

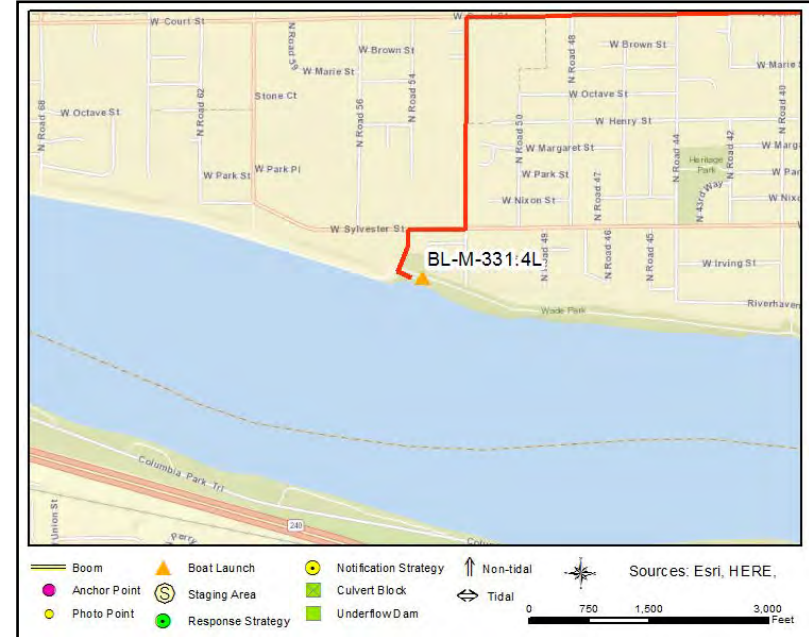
Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	One floating dock
Boat Ramp(s)	Concrete, Solid	Two concrete ramps, 6 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		65000 sq ft
Parking - Car	Marked	14
Parking - Trailer	Marked	16
Power	No	
Restroom	Restroom - Portable	
User Fee	No	1 None but open 8am-10pm
Waste Disposal	Trash Receptacle	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

# Wade Park Boat Launch

BL-M-331.4L



SA-M-331.4L Photo: Wade Park Boat Launch



## Site Contact

**City of Pasco Recreation Service**  
Land/Property Contact :  
  
Pasco, WA 99301  
509-545-3456

## Nearest Address

601 Road 54  
Pasco, WA 99301

## Driving Directions

1. Head south on US-395 S
2. Take the Court St exit (0.3 mi)
3. Turn right onto W Court St (0.2 mi)
4. Turn left onto N Rd 34 (0.5 mi)
5. Turn right onto W Sylvester St (1.3 mi)
6. Turn left onto Rd 54, destination will be on the left (341 ft)

# Columbia Park West

BL-M-332.8R

## Boat Launch Location

**Position - Location:** 46° 13.852', -119° 11.493'      46° 13' 51.1", -119° 11' 29.6"      46.23087, -119.19155      Kennewick

**Comments:** Paved lighted staging area with concrete boat ramp, 7.5 degree grade and an anchor point



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single concrete ramp 7.5 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		22,500 sq ft
Parking - Car	Marked	10
Parking - Trailer	Marked	15
Power	Unknown	Building may be available from Kennewick
Restroom	Restroom - Portable	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Unknown	Kennewick building maybe

## GRP Response Strategies Served:

M-332.8R



SA-M-332.8R Photo: Columbia Park West boat launch



**Site Contact**

**City of Kennewick Parks, Rec & Tourism**  
 Primary Contact : Manages boat launches  
 Kennewick, WA 99352

**Nearest Address**

1548 N Edison St.  
 Kennewick, WA 99336

**Driving Directions**

1. Starting at US-395 S in Pasco
2. Turn right to merge onto I-182 W/ US12 W toward Kennewick/ Richland/ Yakima (0.5 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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (2.6 mi)
6. Take the Edison St exit (0.3 mi)
7. Turn right onto N Edison St (0.1 mi)
8. Turn right onto Columbia Park Trail (79 ft)

# Chiawana Park boat launch

BL-M-333.9L

## Boat Launch Location

**Position - Location:** 46° 14.631', -119° 12.378'      46° 14' 37.9", -119° 12' 22.7"      46.24385, -119.20630      Pasco

**Comments:** Boat launch with two ramps 7degree grade, plus a park with staging area



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	1 floating dock
Boat Ramp(s)	Concrete, Solid	Two concrete ramps 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		34,000 sq ft
Parking - Car	Marked	60
Parking - Trailer	Marked	15
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	No fee but gated
Waste Disposal	Trash Receptacle	Dumpster and cans
Water (potable)	Yes	

## GRP Response Strategies Served:

M-333.3M, M-334.5L



SA-M-333.9L Photo: Chiawana Park boat launches



**Site Contact**

**City of Pasco Recreation Service**  
 Land/Property Contact :  
  
 Pasco, WA 99301  
 509-545-3456

**Nearest Address**

100 Chiawana Park Rd  
 Pasco, WA 99301

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (4.9 mi)
3. Take exit 9 for Rd 68 (0.4 mi)
4. Turn left onto N Rd 68 (0.8 mi)
5. Turn right onto W Argent Rd (1.3 mi)
6. Turn left onto Rd 88 (0.6 mi)
7. Turn left onto Schuman Ln/Chiawana Park Rd (0.3 mi)



# Columbia Park Marina

BL-M-334.0R

## Boat Launch Location

**Position - Location:** 46° 14.286', -119° 13.149'      46° 14' 17.2", -119° 13' 8.9"      46.23810, -119.21915      Richland

**Comments:** Large marina with 3 public boat ramps, 7-8 degree grade, and lots of lighted parking



## GRP Response Strategies Served:

M-334.0R, M-334.3M

## Location Information

Asset	Type/Status	Amount/Number
		Marina has 4 boat houses
Boat Dock(s)	Yes	Room for ~40 boats at docks
Boat Ramp(s)	Concrete, Solid	Three concrete ramps 7-8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Paved and striped 70,000 sq ft
Fuel	Yes	
Parking - Car	Marked	55
Parking - Trailer	Marked	40
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	
Water (potable)	Yes	



SA-M-334.0R Photo: Columbia Park Marina boat launches



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

1776 Columbia Park Trail  
 Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington240 W/ Richland (4.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)
8. Turn right on Columbia Park Trail, destination will be on the left (0.3 mi)

# Columbia Point Marine Park boat launch

BL-M-336.4R

## Boat Launch Location

**Position - Location:** 46° 15.832', -119° 14.984'      46° 15' 49.9", -119° 14' 59.0"      46.26387, -119.24973      Richland

**Comments:** Marina & park lighted staging area with four boat ramps, each has a 7 degree grade



## GRP Response Strategies Served:

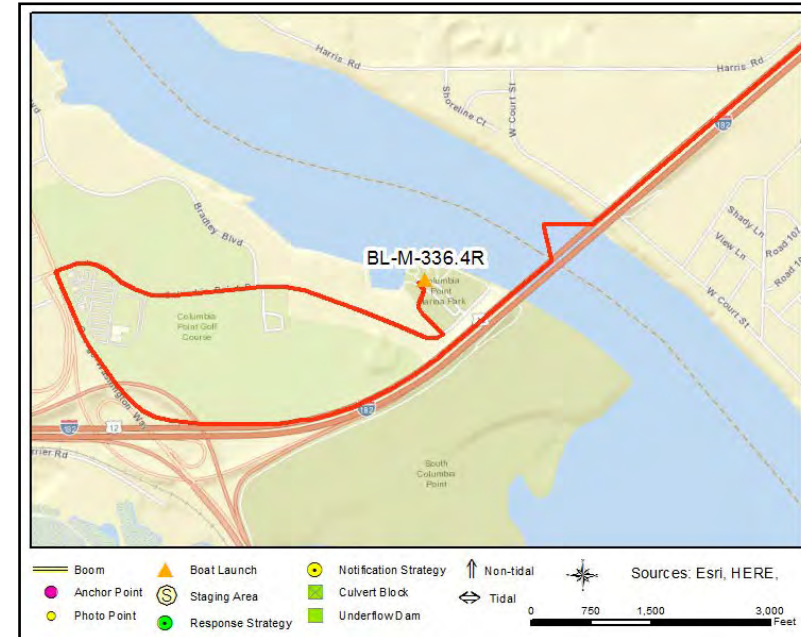
M-335.8R, M-336.1R, M-336.4R

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	dock space for ~35 boats
Boat Ramp(s)	Concrete, Solid	Four concrete ramps 7-8 degrees
Cell Phone Coverage	Yes	4 G 4 bars
Estimated Lot Size		155,000 sq ft
Fuel	Yes	Fuel dock
Parking - Car	Marked	65
Parking - Trailer	Marked	125
Power	Yes	20 amp
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	receptacles/dump out station
Water (potable)	Yes	Restrooms/drinking fountains



SA-M-336.4R Photo: Columbia Point Marine Park boat ramps



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

660 Columbia Point Drive  
 Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (0.8 mi)
4. Turn right onto Columbia Point Drive, destination will be on the left (0.8 mi)
5. Finish at 660 Columbia Point Drive, 99352

# Howard Amon Park

BL-M-337.8R

## Boat Launch Location

**Position - Location:** 46° 16.859', -119° 16.326'      46° 16' 51.5", -119° 16' 19.6"      46.28098, -119.27210      Richland

**Comments:** Paved lighted staging area and two ramps, each with a 7 degree grade



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Three floating docks
Boat Ramp(s)	Concrete, Solid	Two ramps with 7 degree grade each
Cell Phone Coverage	Yes	4 G 2 bars
Estimated Lot Size		63,000 sq ft
Parking - Car	Marked	40
Parking - Trailer	Marked	38
Power	Yes	20 amp
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Water faucet

## GRP Response Strategies Served:

M-337.8R, M-337.3R



SA-M-337.8R Photo: Howard Amon Park boat ramps



### Site Contact

**City of Richland Parks and Recreation Department**  
 Land/Property Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

### Nearest Address

900 Amon Park Road North,  
 Richland, WA 99352

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (1.8 mi)
4. Turn right onto Newton St (486 ft)
5. Take the 1st left onto Amon Park Rd N, destination will be on the right (0.1 mi)
6. Finish at 900 Amon Park Road North,, 99352, on the right

# Leslie Groves Park boat launch

BL-M-340.3R

## Boat Launch Location

**Position - Location:** 46° 18.864', -119° 15.634'      46° 18' 51.8", -119° 15' 38.0"      46.31439, -119.26056      Richland

**Comments:** Lighted paved staging area with three concrete boat ramps



## Location Information

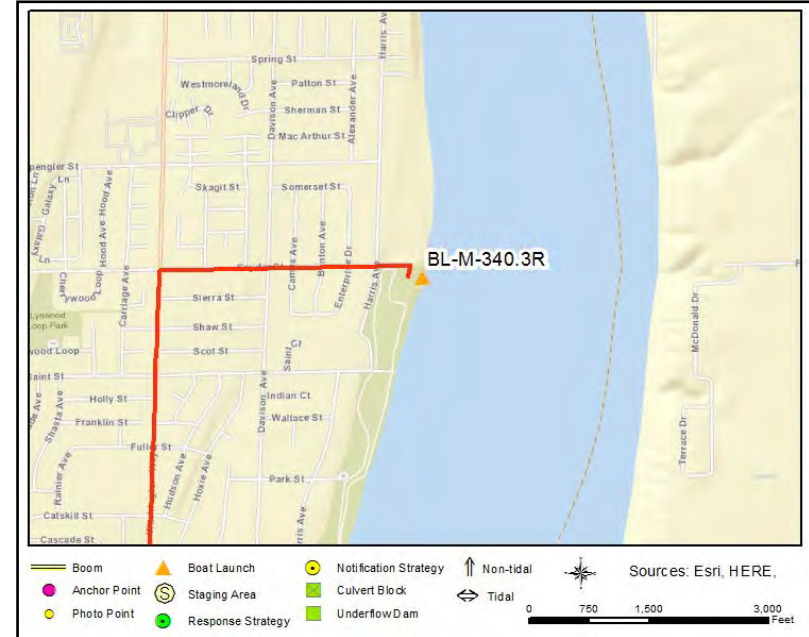
Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Two floating docks
Boat Ramp(s)	Concrete, Solid	Three concrete ramps 7-8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		63,000 sq ft
Parking - Car	Marked	30
Parking - Trailer	Marked	58
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	

## GRP Response Strategies Served:

M-342.8R, M-340.3R



SA-M-340.3R Photo: Leslie Groves Park boat launch



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

2 Snyder Street  
 Richland, WA 99354

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
Continue to follow I-182 W (9.2 mi)
3. Take exit 5B to merge onto George Washington Way (4.3 mi)
4. Turn right onto Snyder St (0.6 mi)
5. Turn right into the parking lot of the Leslie Groves Park boat launch



# Selph Landing boat launch

BL-M-340.7L

## Boat Launch Location

**Position - Location:** 46° 19.267', -119° 14.912'      46° 19' 16.0", -119° 14' 54.7"      46.32112, -119.24853      Pasco

**Comments:** Primitive launch, gravel ramp 8 degree grade, with room for staging area



## Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Gravel	Single gravel launch 8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		7,500 sq ft
Parking - Car	Gravel	15
Parking - Trailer	Gravel	15
Power	No	
Restroom	Restroom - Portable	1
User Fee	No	
Waste Disposal	None	None
Water (potable)	No	

## GRP Response Strategies Served:

M-340.7L



SA-M-340.7L Photo: Selph Landing primitive boat launch



### Site Contact

**USACE Ice Harbor pool**  
 Primary Contact : Tri-Rivers Natural Resources Management Office  
  
 Ice Harbor Dam, WA  
 509-547-2048

### Nearest Address

10099 Selph Landing Rd  
 Pasco, WA 99301

### Driving Directions

1. Start at US-395 S, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr
3. Turn right on W Vineyard Dr (1.2 mi)
4. Turn right on N Oregon St (0.1 mi)
5. Turn left on Selph Landing Rd (7 mi)
6. Finish at 10099 Selph Landing Rd, 99301, on the left

# Sacajawea State Park & Boat Launch

BL-MSN-1.0R

## Boat Launch Location

**Position - Location:** 46° 12.100', -119° 2.301'      46° 12' 6.0", -119° 2' 18.1"      46.20166, -119.03835      Pasco

**Comments:** State park staging area and boat launch, gated & fee. Call Park Manager, Christian Ford at 509-366-5180



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	2
Boat Ramp(s)	Concrete, Solid	2 Lanes
Cell Phone Coverage	Yes	
Estimated Lot Size		40,000 SqFt
Parking - Car	Gravel	40 (Unmarked)
Parking - Trailer	Gravel	20 (Unmarked)
Power	Yes	N/A
Restroom	Restroom - Flush	1 Mens; 1 Womens
User Fee	Yes	\$5 Boat Launch
Waste Disposal	Trash Receptacle	N/A
Water (potable)	Yes	N/A

## GRP Response Strategies Served:

M-324.6M, MSN-0.8M, M-324.44M, MSN-1.0R, M-325.6L, M-326.1M, MSN-1.56R, M-324.37M



SA-MSN-1.0R Photo: Sacajawea State Park boat launch



**Site Contact**

**Washington State Parks and Recreation Commission**

Primary Contact : Sacajawea State Park

Pasco, WA 99301  
509-545-2361

**Nearest Address**

2503 Sacajawea Park Road  
Pasco, WA 99301

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (3.8 mi)
3. Turn right onto Sacajawea Park Rd. (1.9 mi watch for signs for the park)
4. Turn left into the park (0.1 mi) at 2503 Sacajawea Park Rd, Pasco, WA99301

# Grain Terminal Rd USACE boat launch

BL-MSN-2.2L

## Boat Launch Location

**Position - Location:** 46° 12.642', -119° 1.070'      46° 12' 38.5", -119° 1' 4.2"      46.21070, -119.01784      Burbank

**Comments:** 1 concrete boat ramp, gated, open 4am-10pm, daily between Sept 15 and May 15. Shallow water vessels only



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Floating dock
Boat Ramp(s)	Concrete, Solid	Single concrete ramp 7 degree grade gate
Cell Phone Coverage	Yes	
Estimated Lot Size		23,500 sq ft
Parking - Car	Gravel	20
Parking - Trailer	Gravel	20
Power	No	
Restroom	Restroom - Portable	Portable by ramp, vault @other parking
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	No	

## GRP Response Strategies Served:

MSN-2.1L, MSN-1.55L



SA-MSN-2.2L Photo: Grain Terminal Rd USACE boat launch



**Site Contact**

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager  
  
 McNary Dam, OR  
 541-922-2268

**Nearest Address**

577 S 2nd Street  
 Burbank, WA 99323

**Driving Directions**

1. Start at 100 Hwy 12, Pasco, WA 99301
2. Go west on I-182 (US-12 W) toward 12a (1.58 miles)
3. Make U-turn and go back on I-182 (US-12 E) (4.44 miles)
4. Continue on US-12 (3.79 miles)
5. Turn right on Grain Terminal Rd (0.26 miles)
6. Turn left on 2nd Ave (0.2 miles)
7. Finish at 577 S 2nd Street, 99323, on the right

# Hood Park USACE boat launch

BL-MSN-2.3L

## Boat Launch Location

**Position - Location:** 46° 12.875', -119° 1.143'      46° 12' 52.5", -119° 1' 8.6"      46.21458, -119.01905      Burbank

**Comments:** Paved 41,600 sq ft lot, lighted, 3 ramps @ 6.5 degree grade with floating docks



## GRP Response Strategies Served:

MSN-4.0M, MSN-4.5L, MSN-8.4M, MSN-6.1L, MSN-4.6M, MSN-2.8L

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Two floating docks & one perm dock
Boat Ramp(s)	Concrete, Solid	Three concrete ramps, 6.5 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		41,000 sq ft
Parking - Car	Marked	50
Parking - Trailer	Marked	40
Power	Yes	In campground or maint bldg
Restroom	Restroom - Portable	Additional flush toilets at campground
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	In campground or maint bldg



SA-MSN-2.3L Photo: Hood Park USACE boat launch



### Site Contact

**USACE McNary pool**  
 Primary Contact : Natural Resource Manager  
  
 McNary Dam, OR  
 541-922-2268

### Nearest Address

100 Hood Park Road  
 Burbank, WA 99323

### Driving Directions

1. From Pasco take US-395 S
2. Turn right onto N 20th Ave (0.3 mi)
3. Turn right to merge onto I-182 E/ US-12 E toward Walla Walla (1.4 mi)
4. Continue onto US-12 E (5.0 mi)
5. Take the Washington 124 exit toward Burbank/ Waitsburg (0.2 mi)
6. Keep right at the fork and merge onto Ice Harbor Dr (0.3 mi)
7. Slight right to stay on Ice Harbor Dr(0.1 mi)
8. Turn left onto Hood Park Rd- go straight to the launch at the end (0.5 mi)



# Ice Harbor North Shore Recreation Area boat launch

BL-SIH-9.9R

## Boat Launch Location

**Position - Location:** 46° 15.187', -118° 52.634'      46° 15' 11.2", -118° 52' 38.0"      46.25312, -118.87723      Pasco

**Comments:** Paved staging area with two concrete boat ramps, 7 degree grade



## GRP Response Strategies Served:

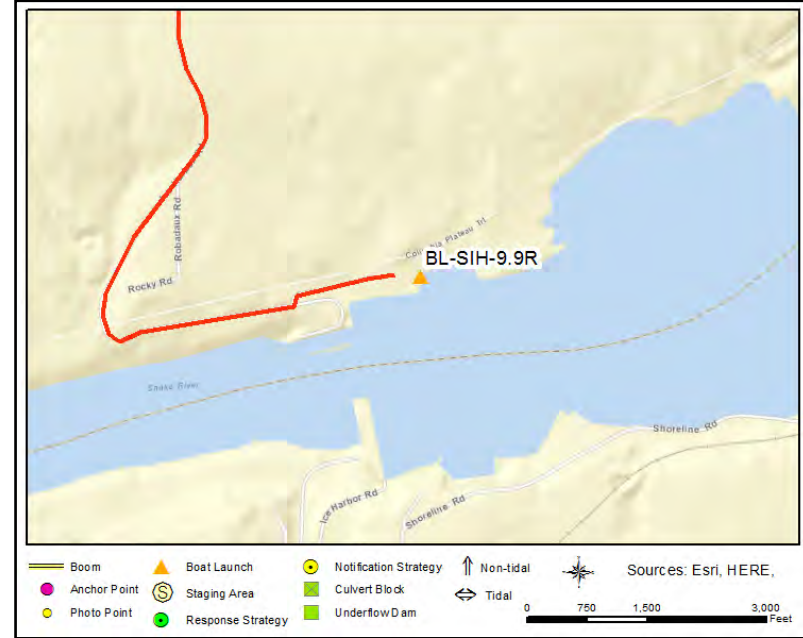
SIH-10.2L, SIH-10.0R, [MSN-9.5R](#), SIH-9.8R

## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	1
Boat Ramp(s)	Concrete, Solid	2 lanes, 7 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		52,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	12
Parking - Trailer	Marked	26
Power	No	
Restroom	Restroom - Vault	2
User Fee	No	
Waste Disposal	Trash Receptacle	Dumpster
Water (potable)	No	



SA-SIH-9.9R Photo: Ice Harbor North Shore Recreation Area and Boat Ramp



**Site Contact**

**USACE Ice Harbor pool**  
 Primary Contact : Tri-Rivers Natural Resources Management Office  
  
 Ice Harbor Dam, WA  
 509-547-2048

**Nearest Address**

1240 Ice Harbor Rd  
 Pasco, WA 99301

**Driving Directions**

1. Starting from Pasco, WA head south on US-395 S
2. Take the exit onto US-12 E toward Walla Walla (1.7 mi)
3. Take the exit toward Kahlotus (0.4 mi)
4. Turn right onto E Lewis St (0.2 mi)
5. Continue onto Pasco Kahlotus Rd (8.9 mi)
6. Turn right onto Ice Harbor Rd, destination will be on the left (3.1 mi)

# Madame Dorion Memorial Park USF&W boat launch

BL-WWR-4.0R

## Boat Launch Location

**Position - Location:** 46° 3.739', -118° 54.209'      46° 3' 44.3", -118° 54' 12.5"      46.06231, -118.90348      Touchet

**Comments:** 1 concrete boat ramp with gravel lot



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	USF&W single boat ramp concrete 7 degree
Cell Phone Coverage	Yes	
Estimated Lot Size		14,000 sq ft
Lot Cover (Primary)	Dirt/Gravel	
Parking - Car	Gravel	20
Parking - Trailer	Gravel	20
Power	No	
Restroom	Restroom - Portable	Portable + vault roadside
User Fee	No	no fee, open 24 hours
Waste Disposal	None	none
Water (potable)	No	

## GRP Response Strategies Served:

M-314.5L, WWR-4R, M-314.7L



SA-WWR-4.0R Photo: Madam Dorion US Fish & Wildlife boat launch on the Walla Walla River (confluence at Columbia River mile 314.7)

**Site Contact**

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

Primary Contact : Property Contact

Burbank, WA 99323  
509-546-8300

**Nearest Address**

324 Western Farmer Road  
Touchet, WA 99360



**Driving Directions**

1. Directions to BL-WWR-4R/Madam Dorian Memorial Park, starting in Umatilla, OR head east on US-730 E/6th St toward Eisele Dr  
Continue to follow US-730 (25.2 mi)
2. Slight left toward US-12 W (0.2 mi)
3. Turn left onto US-12 W (0.4 mi)
4. Turn right onto N Shore Rd (138 ft)
5. Take an immediate right on unnamed road for Madam Dorian boat launch on the right (0.3 mi)

# Wye Park boat launch

BL-YAK-0.5R

## Boat Launch Location

**Position - Location:** 46° 14.319', -119° 13.725'      46° 14' 19.1", -119° 13' 43.5"      46.23865, -119.22875      Richland

**Comments:** Wye Park has 1 gravel ramp 7 degree grade, & area for staging



## Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	Yes	Small floating dock
Boat Ramp(s)	Gravel	Gravel ramp with 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		10,500 sq ft
Parking - Car	Marked	10
Parking - Trailer	Marked	4
Power	Yes	Power at restroom
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	Water at restroom

## GRP Response Strategies Served:

YAK-0.5R, M-335.0M



SA-YAK-0.5R Photo: Wye Park boat launch



**Site Contact**

**City of Richland Parks and Recreation Department**  
 Primary Contact : Manages this boat launch  
  
 Richland, WA 99352  
 509-942-7529

**Nearest Address**

1600 Columbia Park Trail  
 Richland, WA 99352

**Driving Directions**

- Driving Directions to Boat Launch/Staging Area (SA-YAK-0.5R/BL-YAK-0.5R) Wye Park
1. Head south on US-395 S
  2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton  
 Continue to follow I-182 W (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. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (4.2 mi)
  6. Take the Columbia Center Boulevard exit (0.2 mi)
  7. Turn right onto N Columbia Center Blvd (0.3 mi)
  8. Turn left onto Columbia Park Trail, destination will be on the right (0.2 mi)
  9. Finish at 1600 Columbia Park Trail, 99352, on the right