

LOWER YAKIMA RIVER

Geographic Response Plan

(YAK-GRP)

CHAPTER 4

Response Strategies and Priorities

June 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 [119-488](#)) 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 they should be implemented, based on Potential Oil Spill Origin Points (POSOPs) and the 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 shoreline countermeasures can be found in the Northwest Area Shoreline Countermeasures Manual ([NWACP Section 9420](#)). The Northwest Area Contingency Plan (NWACP) is available online at <http://www.rrt10nwac.com/NWACP/Default.aspx>.

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

4.1.1 On-site Considerations

Before Deploying a GRP Strategy (Questions to Ask)

- Are conditions safe? Response managers and responders must first determine if efforts to implement a response strategy would pose an undue risk to worker safety or the public, based on conditions present during the time of the emergency. No strategy should be implemented if doing so would threaten public safety or present an unreasonable risk to the safety of responders.
- Has initial control and containment been sufficiently achieved? Control and containment of the spill at or near the source are always higher priorities than the deployment of GRP response strategies, especially when concurrent response activities are not possible.
- How far downstream or out into the river environment is the 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, or local, county, municipality, or tribal police for assistance. At minimum, [Washington Department of Transportation \(WSDOT\) guidelines for work zone traffic control](#) should be followed when working on or near a roadway.
 - Benton County Sheriff (509) 735-6555
 - City of Yakima Police (509) 575-6200
 - Kittitas County Sheriff (509) 962-7525
 - Washington State Patrol District #3 (509) 575-2320
 - Washington State Patrol District #5 (360) 449-7909
 - Yakama Nation Public Safety (509) 865-5121 x4200
 - Yakima County Sheriff (509) 574-2500

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 must remain flexible and 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.
- 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 responses, 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

Time to Drift 100 Feet (seconds)	Velocity (ft/sec)	Velocity (m/sec)	Velocity (knots)	Max Boom Deflection Angle (degrees)	Boom required for 100-foot Profile to Current (feet)	Anchors needed if Placed Every 50 feet (number)
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

Table 4.1.2 provides historical river outflow data which was obtained for both the Yakima and Naches Rivers using the U.S. Bureau of Reclamation's Hydromet database of automated data from a network of hydrologic and meteorologic monitoring stations located throughout the Pacific Northwest (2016). Information on outflow, and other performance measures, can be found online at <https://www.usbr.gov/pn/hydromet/>. Outflow is recorded in cubic feet per second (cfs). Table 4.1 provides information that can be used to calculate river velocities 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 on calculating river velocities can be found in the [Northwest Area Contingency Plan Section 9302](#).

Table 4.2: Historical River Streamflow Ranges

2006-2016 Monthly Average Outflow in Cubic Feet per Second (cfs)			
	Yakima River below Roza Dam	Naches River near Yakima	Yakima River at Prosser
January	972	1,195	3,297
February	933	1,141	2,725
March	1,047	1,469	3,205
April	1,685	2,350	3,808
May	2,168	3,737	5,167
June	1,652	3,420	3,679
July	1,780	1,313	969
August	1,888	567	661
September	584	1,562	668
October	737	749	1,035
November	1,070	1,021	2,251
December	789	901	3,190
Annual Averages	1,275	1,619	2,555

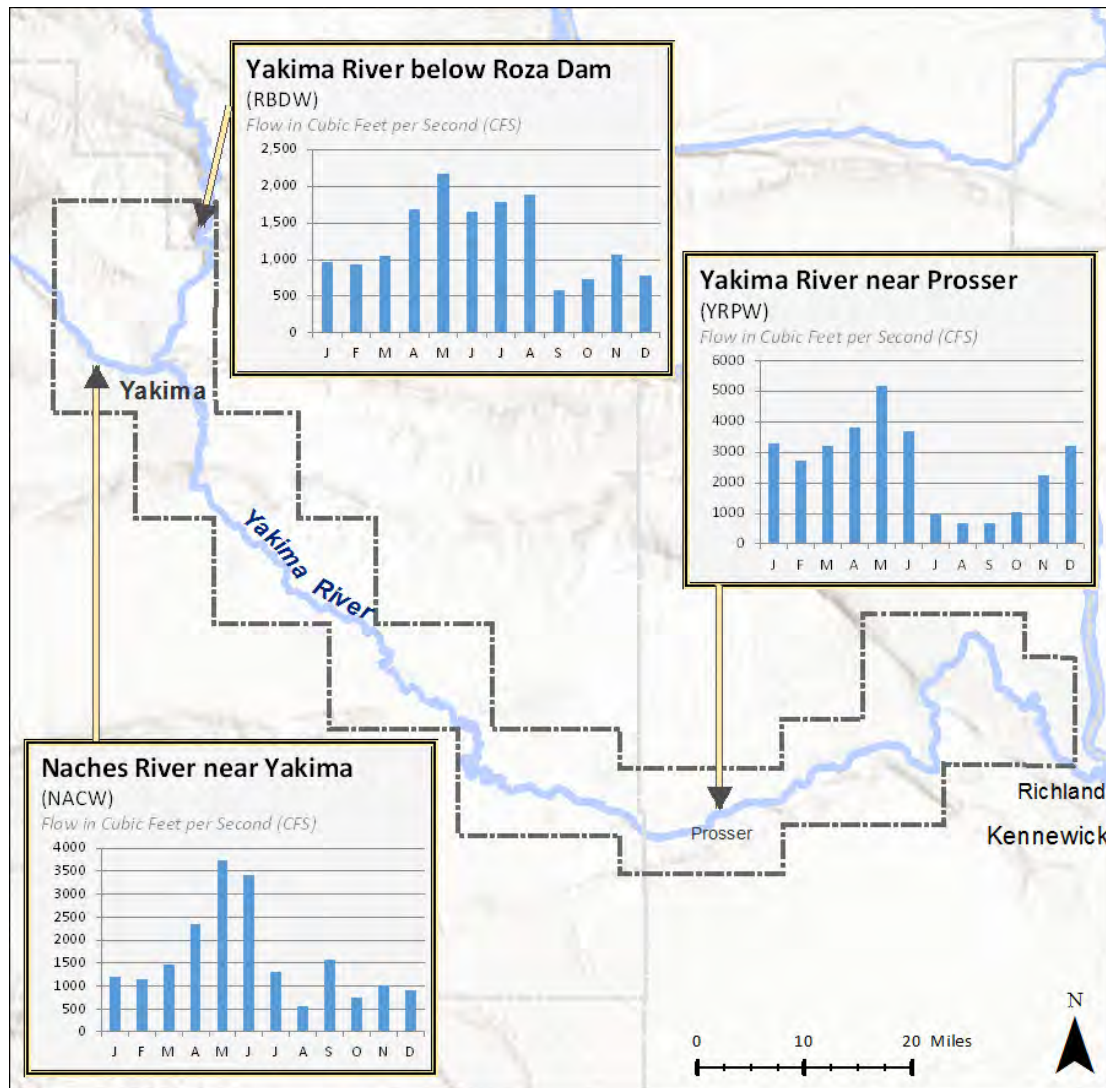


Figure 4-1: Mean Monthly Outflow for the Yakima and Naches Rivers

4.2 AREA OVERVIEW MAPS

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

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

- [Response Strategy Locations](#)
- [Notification Strategy Locations](#)
- [Staging Areas](#)
- [Boat Launch Locations](#)
- [Potential Oil Spill Origin Points](#)

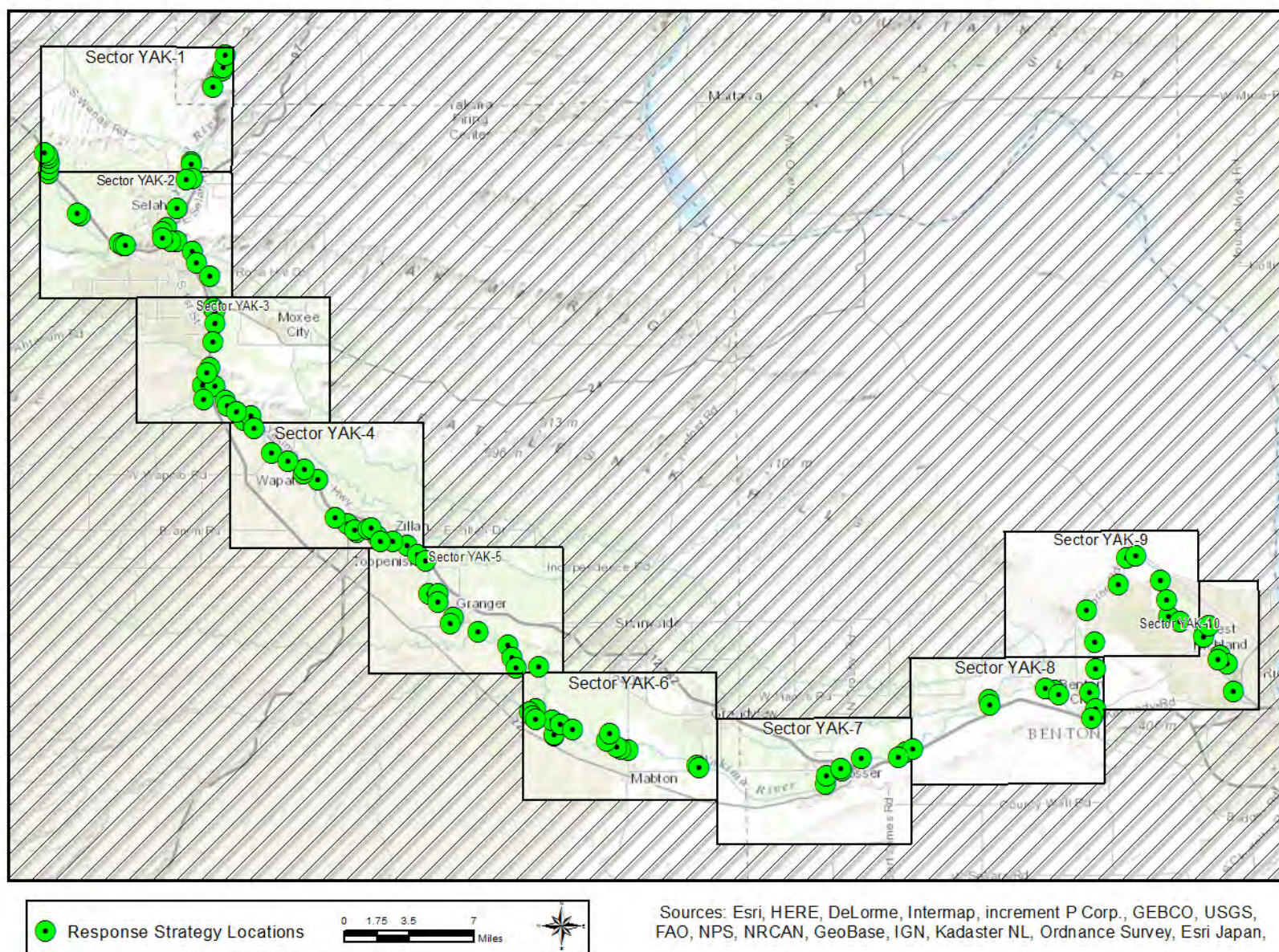


Figure 4-2: Response Strategy Locations

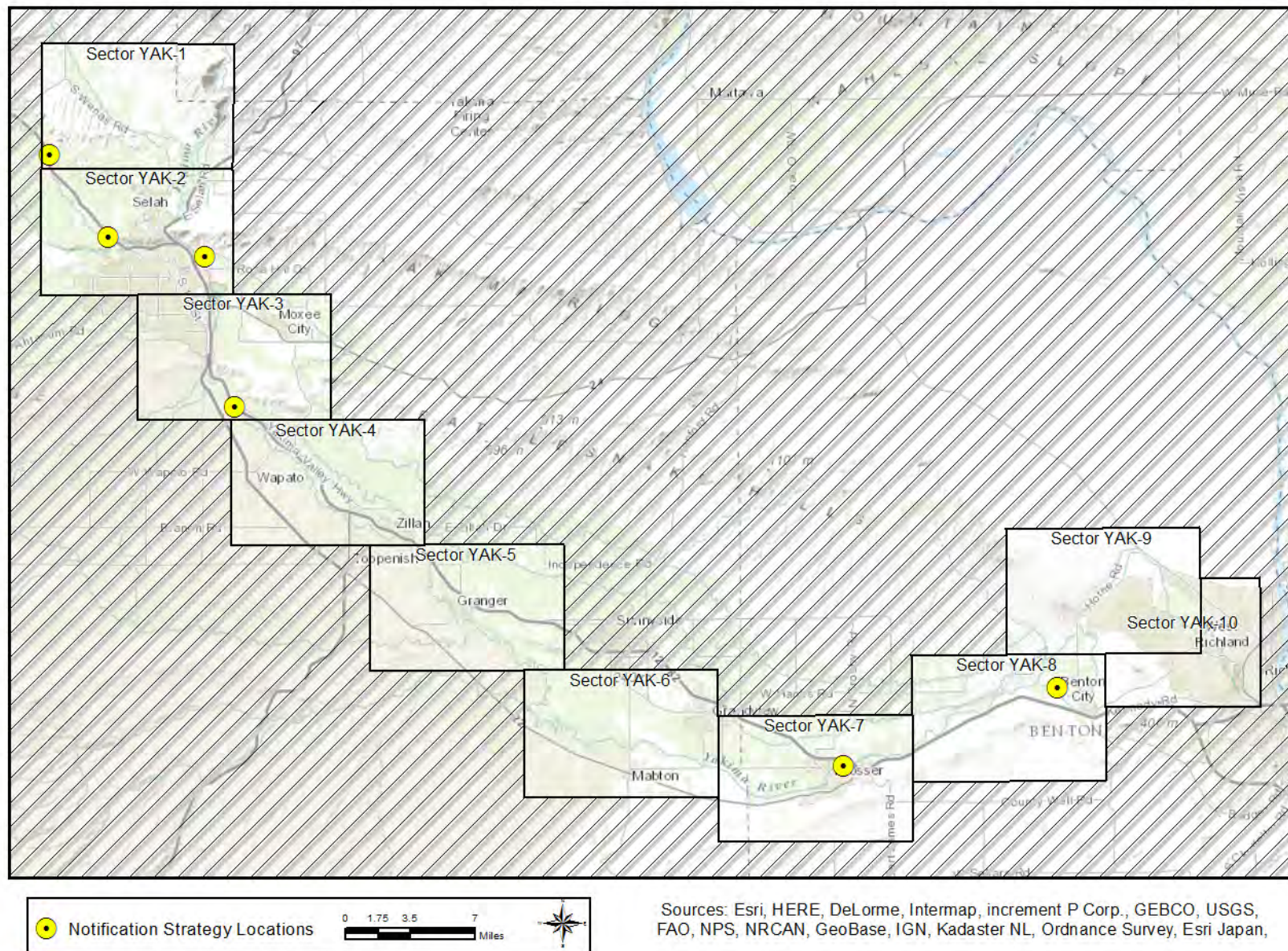


Figure 4-3: Notification Strategy Locations

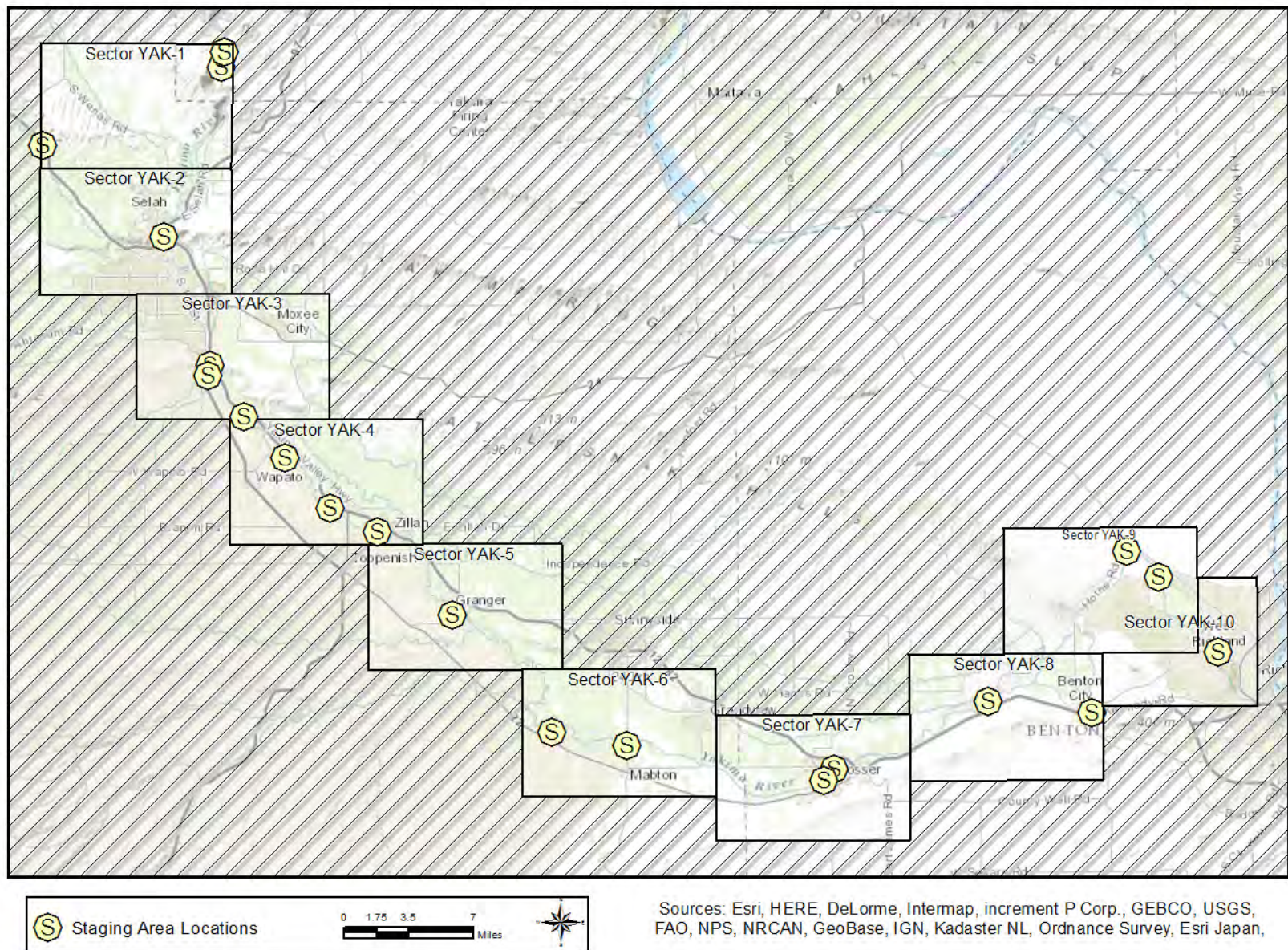


Figure 4-4: Staging Area Locations

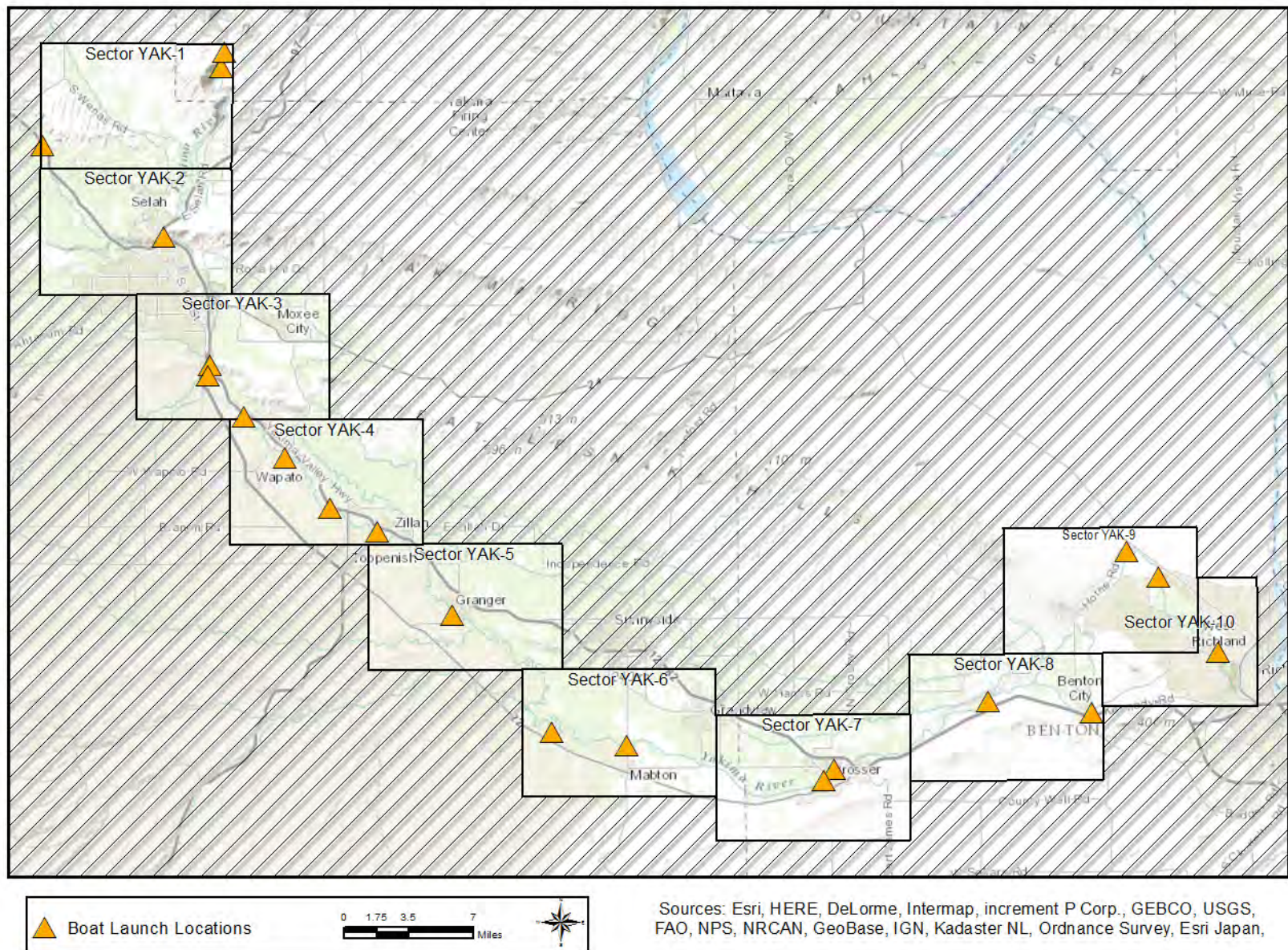


Figure 4-5: Boat Launch Locations

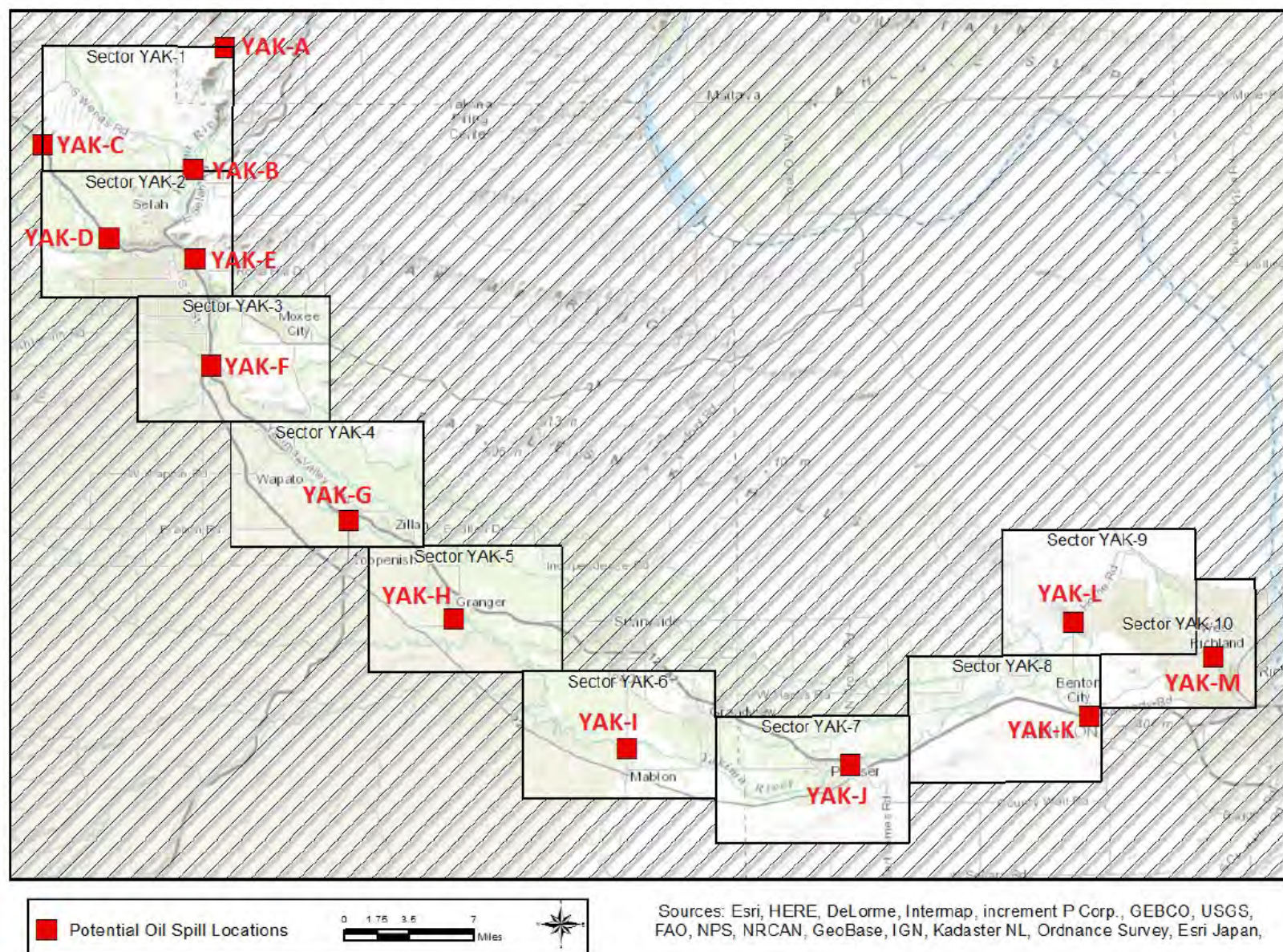


Figure 4-6: Potential Oil Spill Origin Point Locations

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.

- 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

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, 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 Lower Yakima River GRP: points YAK-A through YAK-M. 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. Because oil spilled in this planning area may be carried downstream and impact an adjacent GRP area, these priority tables include several strategies from the Middle Columbia River McNary Pool GRP (MCR-M-GRP). The 2-pagers for those strategies have also been included in Appendix 4A for convenience.

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

Table 4.3: YAK-A (~RM 131.2) – Potential Oil Spill Origin Point Table

YAK-A (Upper Yakima River ~RM 131.2)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-122.15R	58	101	349
2	YAK-122.2M	58	101	351
4	YAK-128.05R	58	101	353
5	YAK-129.4R	58	102	355
6	YAK-129.8L	58	102	357
7	YAK-130.6L	58	102	359

Table 4.4: YAK-B (~RM 121.8) – Potential Oil Spill Origin Point Table

YAK-B (Railroad yard and bridge ~RM 121.8)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-111.0R	60	98	329
2	YAK-112.95L	59	98	331
3	YAK-114.3L	59	99	333
4	YAK-115.0L	59	99	335
5	YAK-116.0L	59	99	337
6	YAK-116.8L	59	99	339
7	YAK-117.2R	59	100	341
8	YAK-117.5R	59	100	343
9	YAK-119.1R	59	100	345
10	YAK-121.3L	59	101	347

Table 4.5: YAK-C (~Naches RM 10.7) – Potential Oil Spill Origin Point Table

YAK-C (Kelly Ditch ~Naches RM 10.7)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	NACH-5.95L	59	70	139
2	NACH-6.05L	59	70	141
3	NACH-8.95R	59	70	143
4	NACH-9.2L	58	70	145
5	NACH-9.55L	58	71	147
6	NACH-9.85L	58	71	149
7	NACH-10.0L	58	71	151
8	NACH-10.15L	58	71	153

Table 4.6: YAK-D (~Naches RM 3.7) – Potential Oil Spill Origin Point Table

YAK-D (Hwy 12, RR bridge, & Nelson Diversion Dam ~Naches RM 3.7)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-112.95L	59	98	331
2	YAK-114.3L	59	99	333
3	YAK-115.0L	59	99	335
4	YAK-116.0L	59	99	337
5	NACH-0.1 R	59	69	131
6	NACH-2.75R	59	69	135
7	NACH-2.7R	59	69	133
8	NACH-3.05R	59	69	137

Table 4.7: YAK-E (~RM 114.4) – Potential Oil Spill Origin Point Table

YAK-E (I-82, Hwy 12, RR Bridge ~RM 114.4)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-105.8R	60	96	317
2	YAKWAP-106.2	60	105	379
3	YAK-106.75R	60	96	319
4	YAK-107.1L	60	97	321
5	YAK-108.8L	60	97	323
6	YAK-110.0M	60	97	325
7	YAK-110.85R	60	98	327
8	YAK-111.0R	60	98	329
9	YAK-112.95L	59	98	331
10	YAK-114.3L	59	99	333

Table 4.8: YAK-F (~RM 107.2) – Potential Oil Spill Origin Point Table

YAK-F (I-82 bridge, RR ~RM 107.2)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-103.1R	60	95	311
2	YAKSC-103.6	60	104	373
3	YAK-104.25R	60	95	313
4	YAK-104.6L	60	96	315
5	YAKWAP-104.65	60	105	377
6	YAK-105.8R	60	96	317
7	YAKWAP-106.2	60	105	379
8	YAK-106.75R	60	96	319
9	YAK-107.1L	60	97	321

Table 4.9: YAK-G (~RM 93.1) – Potential Oil Spill Origin Point Table

YAK-G (I-82, D Wapato Bridge ~RM 93.1)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-87.55L	62	89	275
2	YAK-88.75L	61	89	277
3	YAK-89.9R	61	90	279
4	YAK-90.7R	61	90	281
5	YAK-90.95R	61	90	283
6	YAK-91.7L	61	91	285
7	YAK-91.85R	61	91	287
8	YAK-92.45M	61	91	289
9	YAK-92.6L	61	91	291
10	YAK-93.1R	61	92	293

Table 4.10: YAK-H (~RM 82.65) – Potential Oil Spill Origin Point Table

YAK-H (Hwy 223 bridge ~RM 82.65)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-69.0R	63	85	247
2	YAK-69.3R	63	85	249
3	YAK-69.5R	63	86	251
4	YAK-70.25L	63	86	253
5	YAK-74.9L	62	86	255
6	YAK-77.05R	62	86	257
7	YAK-77.5R	62	87	259
8	YAK-78.0L	62	87	261
9	YAK-80.55R	62	87	263
10	YAKMC-82.6	62	104	369

Table 4.11: YAK-I (~RM 59.8) – Potential Oil Spill Origin Point Table

YAK-I (Sunnyside Mabton Bridge ~RM 59.8)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-42.9L	64	80	217
2	YAKCC-45.0	64	103	365
3	YAKCC-46.15	64	103	367
4	YAK-46.2L	64	81	219
5	YAK-47.2R	64	81	221
6	YAK-47.65R	64	81	223
7	YAK-55.3M	63	81	225
8	YAK-55.4R	63	82	227
9	YAK-59.8L	63	82	229

Table 4.12: YAK-J (~RM 45.6) – Potential Oil Spill Origin Point Table

YAK-J (I-82, Wine Co & Grant Bridges, RR, Chandler Dam ~RM 45.6)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-28.1L	65	78	199
2	YAK-29.15R	65	78	201
3	YAK-29.55L	65	78	203
4	YAK-29.8R	65	78	205
5	YAK-32.2L	65	79	207
6	YAK-32.45L	65	79	209
7	YAK-32.9L	65	79	211
8	YAK-35.95L	65	80	213
9	YAK-41.9L	65	80	215
10	YAK-42.9L	64	80	217

Table 4.13: YAK-K (~RM 29.8) – Potential Oil Spill Origin Point Table

YAK-K (RR, I-82, Hwy 224 Bridge ~RM 29.8)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-18.35R	66	76	187
2	YAK-18.8L	66	76	189
3	YAK-20.4L	66	76	191
4	YAK-22.7L	66	77	193
5	YAK-25.2R	66	77	195
6	YAK-26.9R	65	77	197
7	YAK-28.1L	65	78	199
8	YAK-29.15R	65	78	201
9	YAK-29.55L	65	78	203
10	YAK-29.8R	65	78	205

Table 4.14: YAK-L (~RM 23.7) – Potential Oil Spill Origin Point Table

YAK-L (Horne Rd ~RM 23.7)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	YAK-14.0R	66	74	179
2	YAK-14.1L	66	75	181
3	YAK-15.15R	66	75	183
4	YAK-16.25L	66	75	185
5	YAK-18.35R	66	76	187
6	YAK-18.8L	66	76	189
7	YAK-20.4L	66	76	191
8	YAK-22.7L	66	77	193

Table 4.15: YAK-M (~RM 8.5) – Potential Oil Spill Origin Point Table

YAK-M (Van Giesen Bridge, Butte Cr, ~RM 8.5)				
Implementation Priority	Strategy Number	Sector Map	Strategy Matrix	Strategy Details
1	M-334.0R**	MCR-M-GRP	MCR-M-GRP	123
2	M-334.3M**	MCR-M-GRP	MCR-M-GRP	125
3	M-334.5L**	MCR-M-GRP	MCR-M-GRP	127
4	M-335.0M**	MCR-M-GRP	MCR-M-GRP	129
5	YAK-2.1L**	MCR-M-GRP	MCR-M-GRP	159
6	YAK-4.2L**	MCR-M-GRP	MCR-M-GRP	161
7	YAK-6.2R	67	72	163
8	YAK-7.85L	67	72	165
9	YAK-8.5R	67	72	167

** Denotes Response Strategies from an adjacent GRP Planning Area

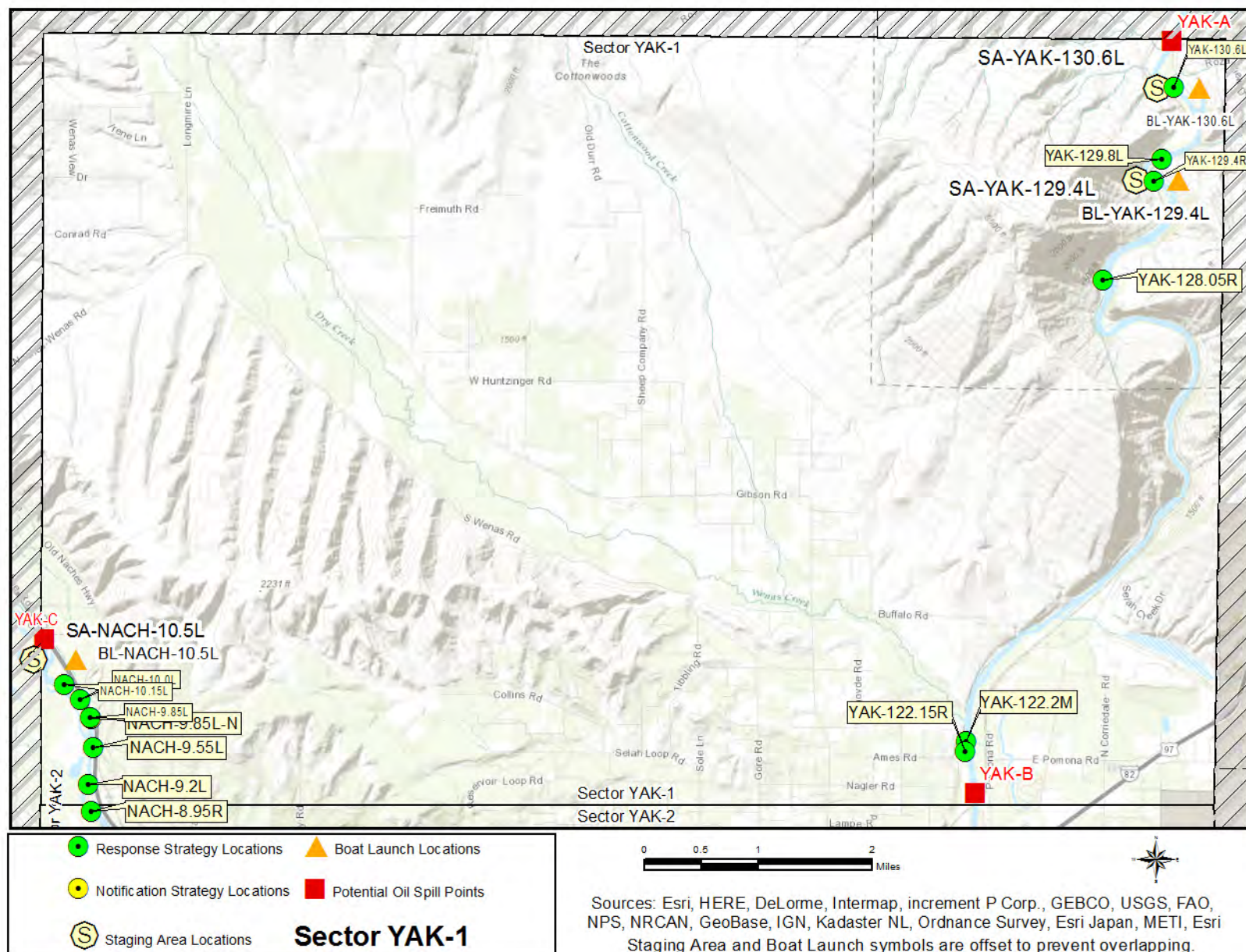


Figure 4-7: Sector Map YAK-1

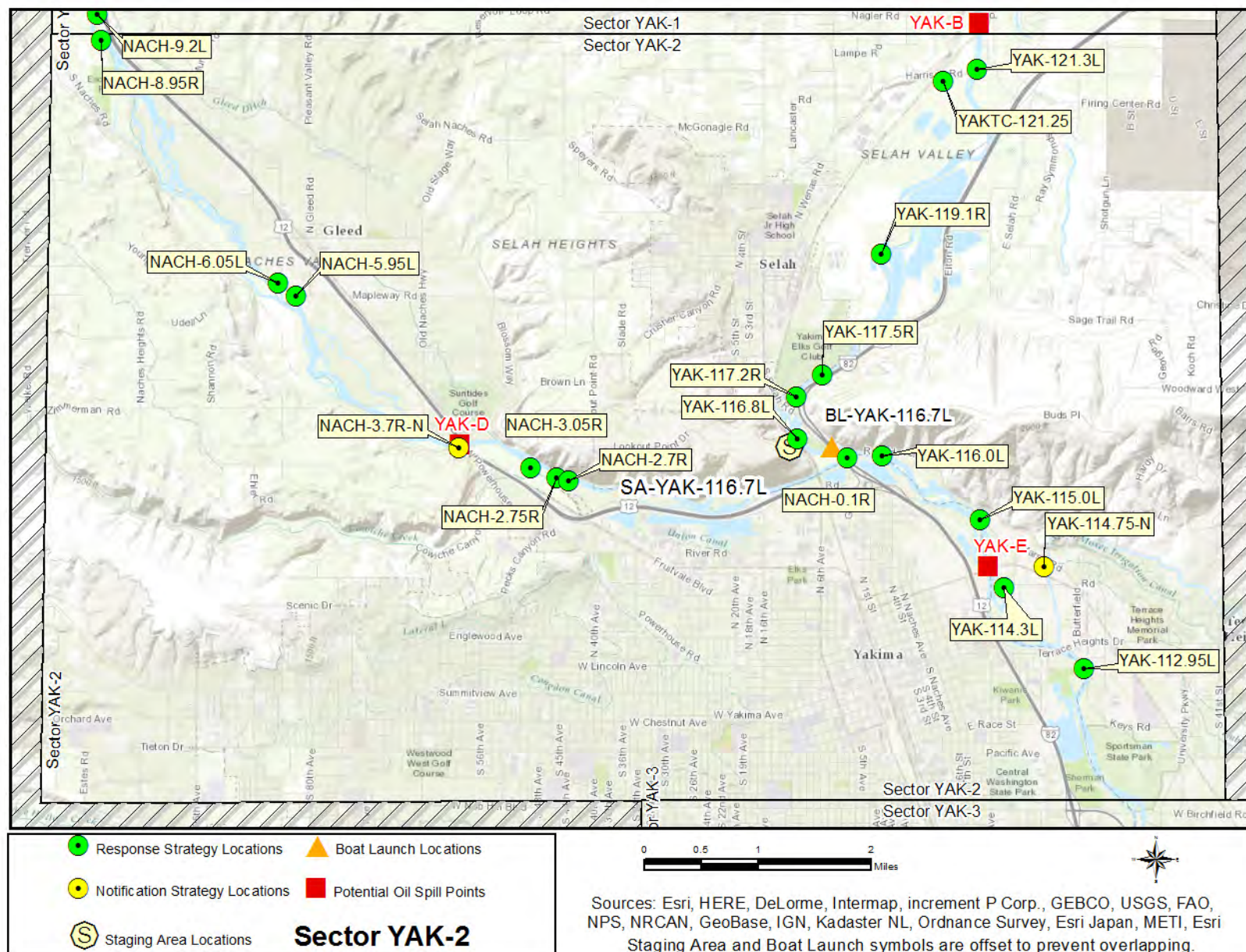


Figure 4-8: Sector Map YAK-2

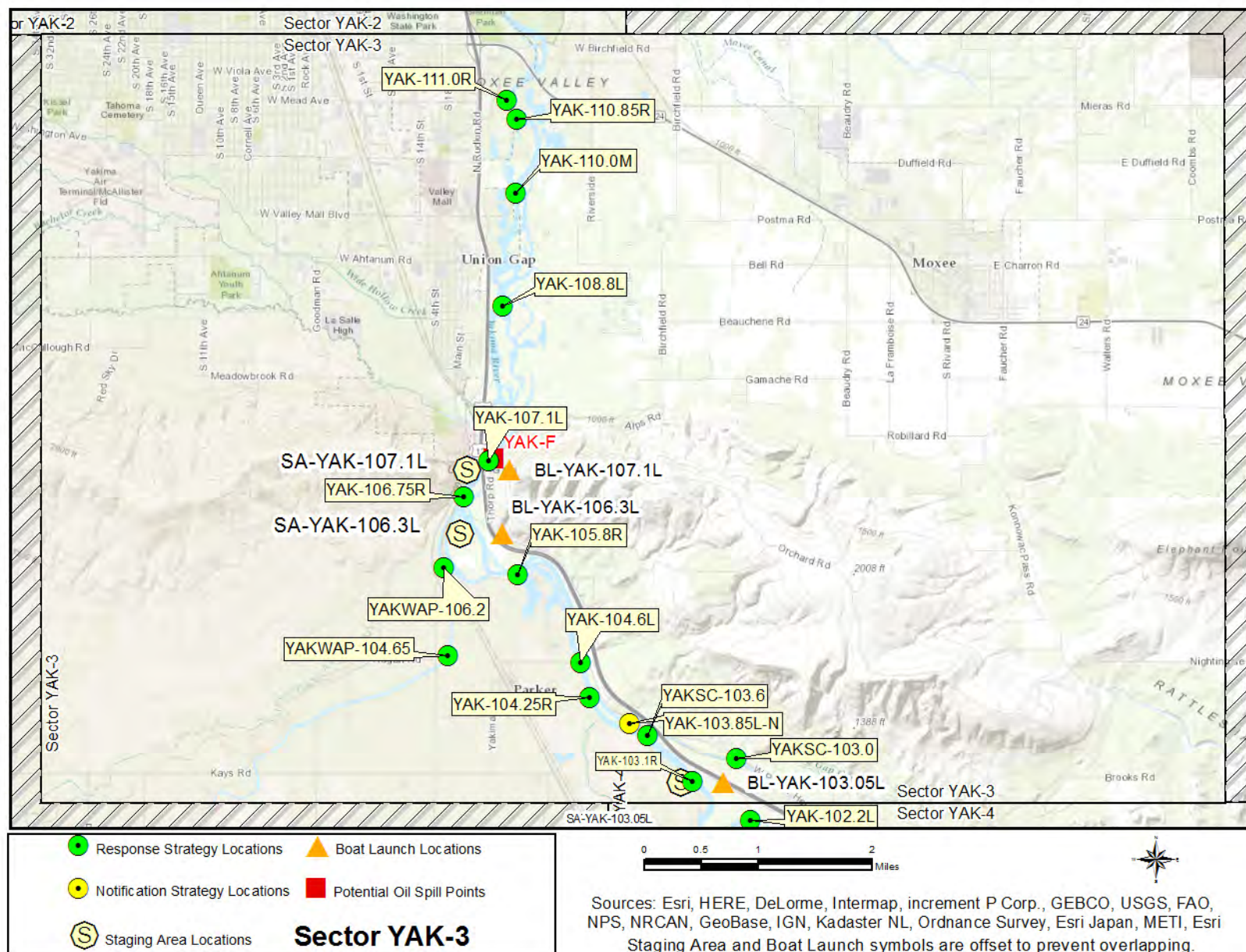


Figure 4-9: Sector Map YAK-3

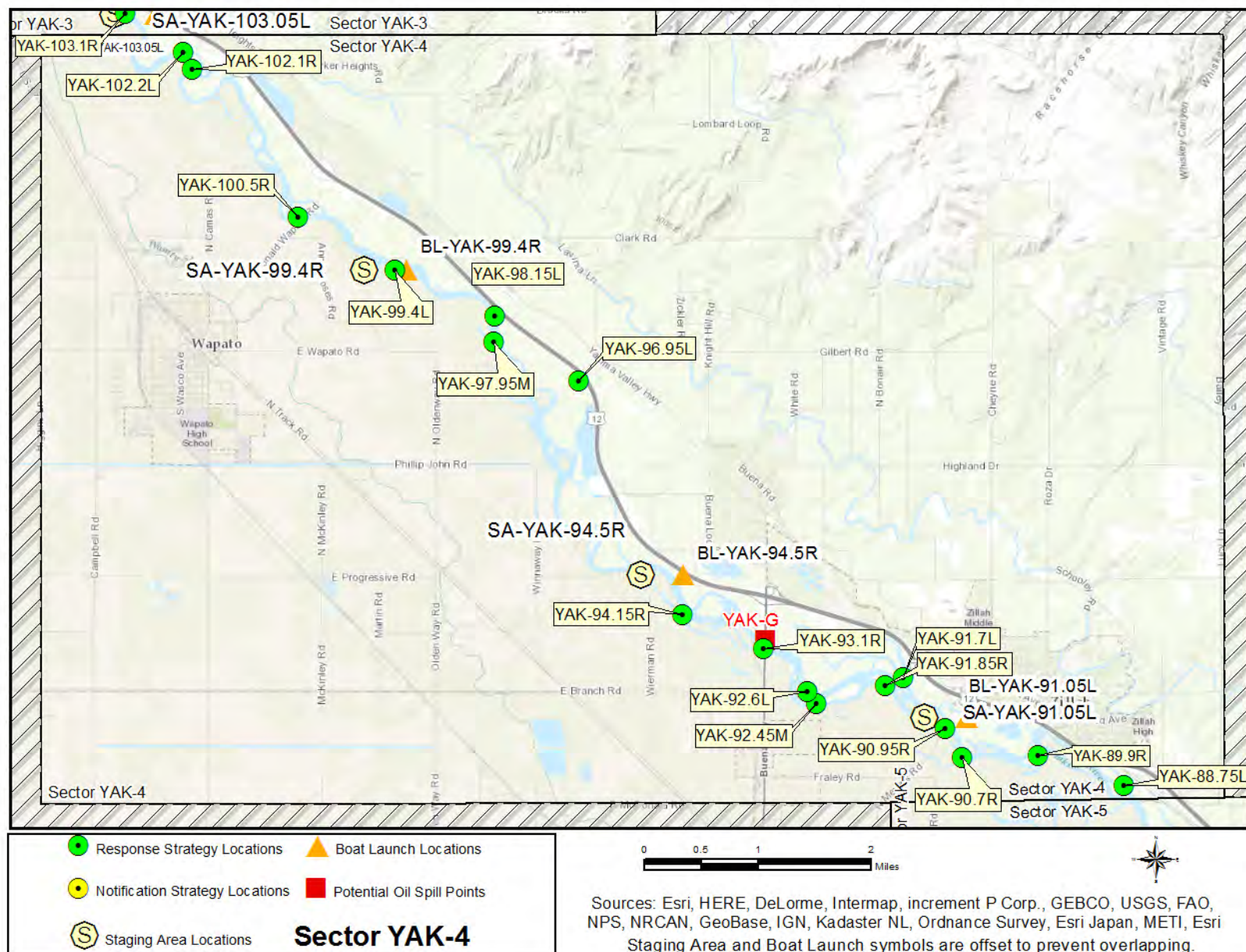
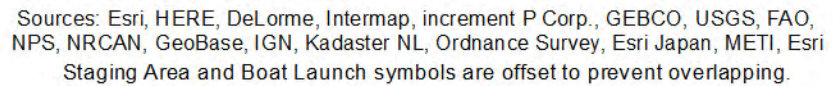


Figure 4-10: Sector Map YAK-4



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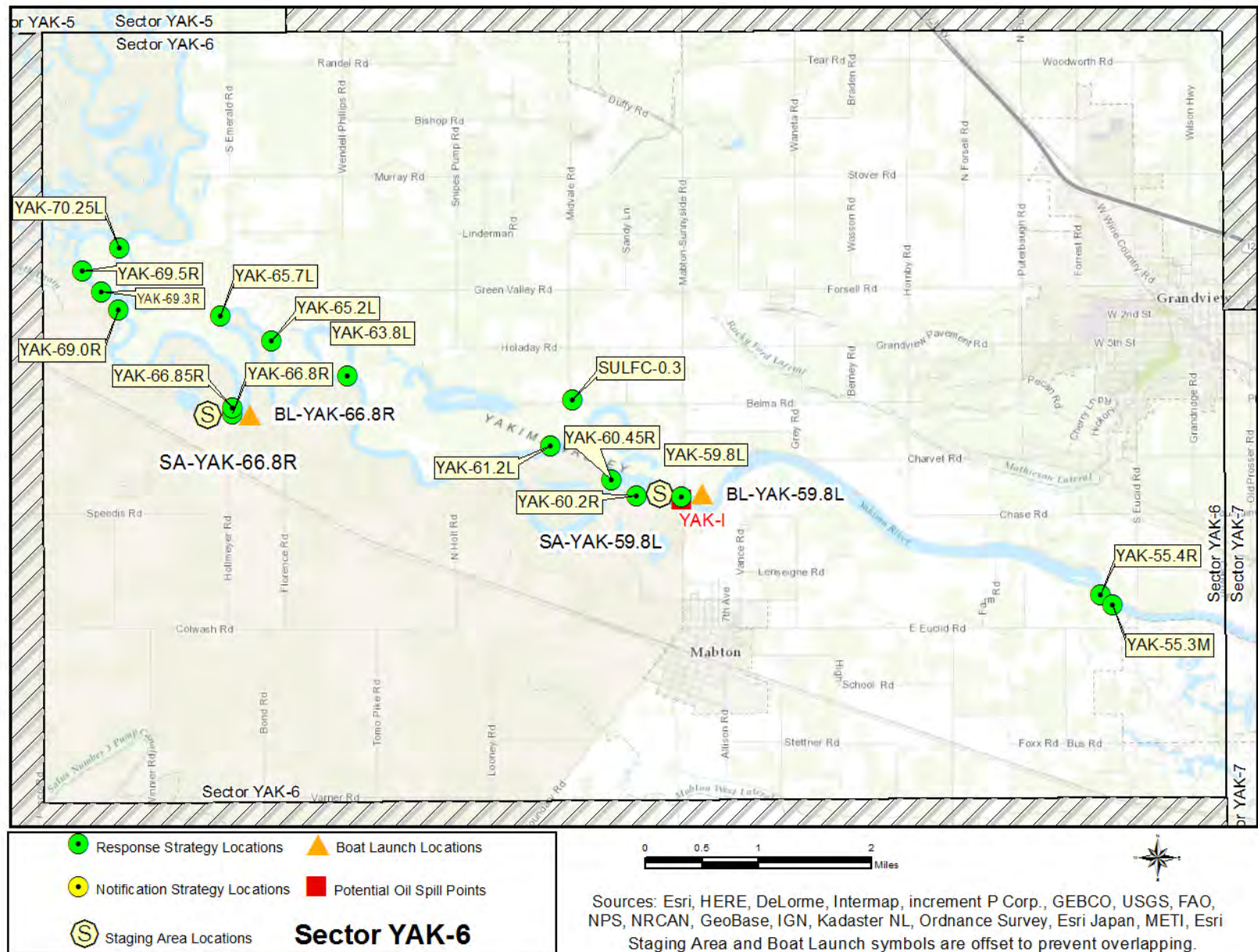


Figure 4-12: Sector Map YAK-6

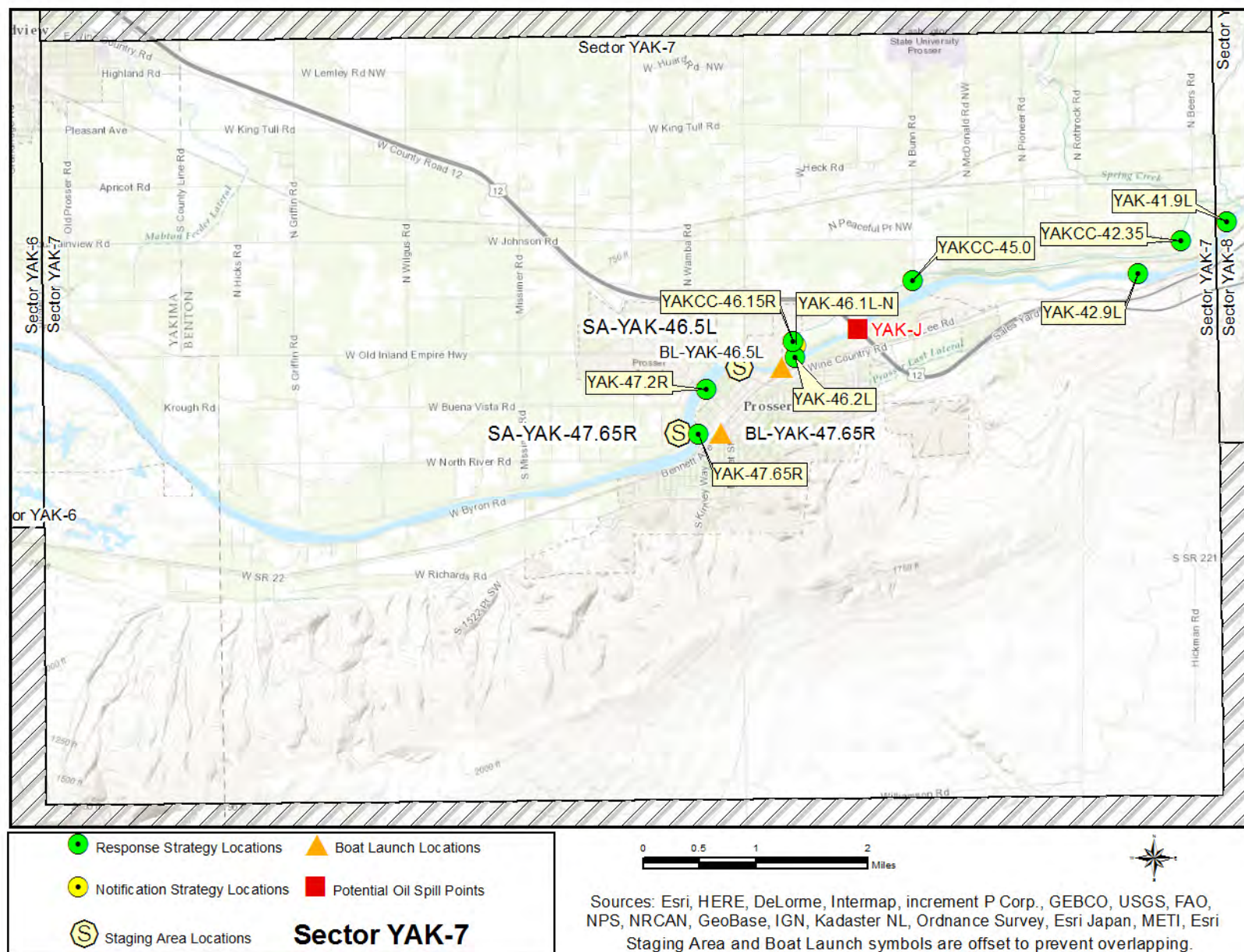
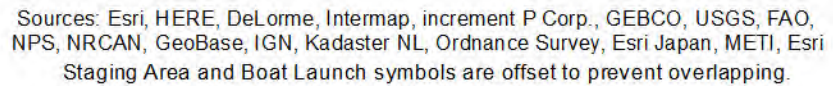


Figure 4-13: Sector Map YAK-7



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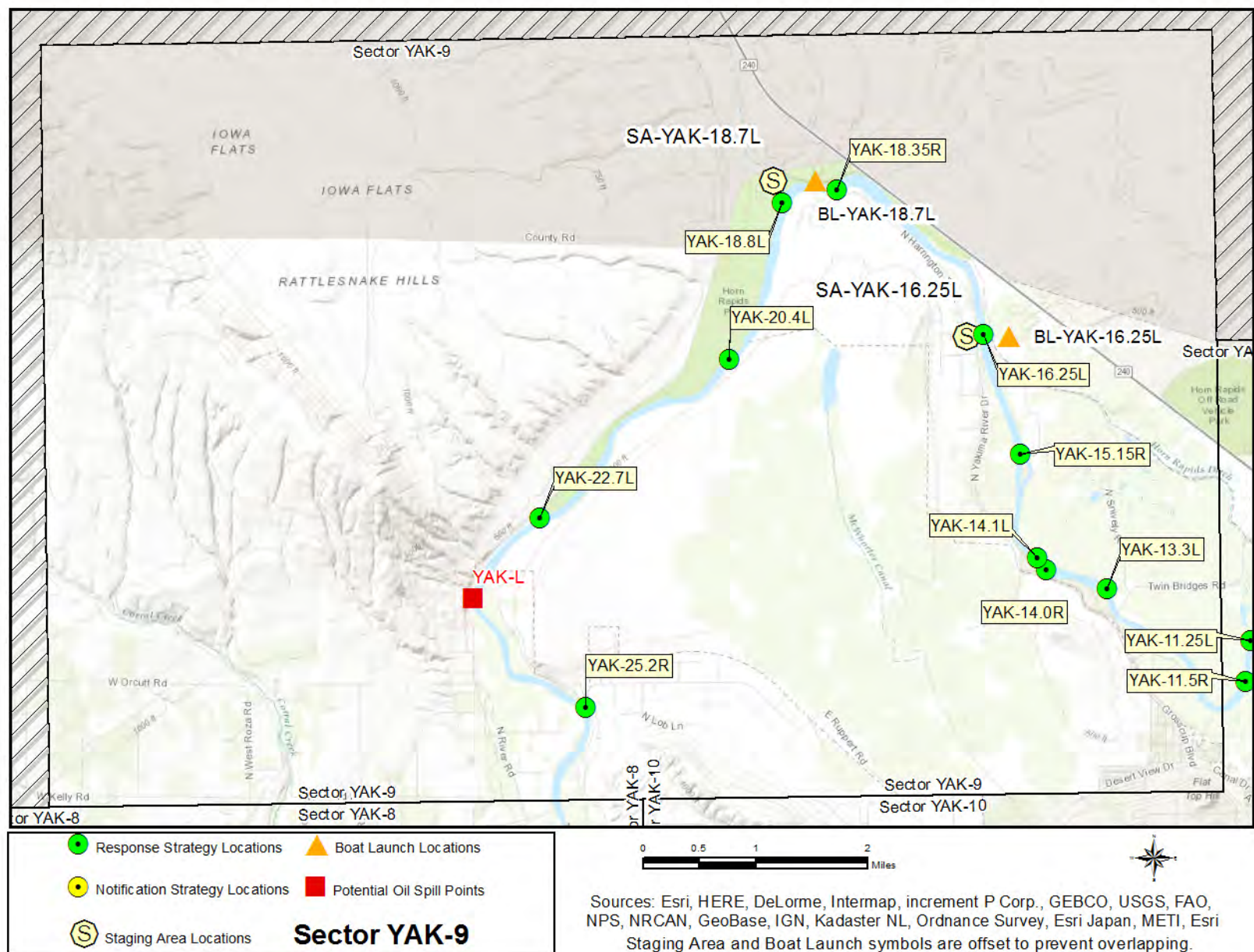


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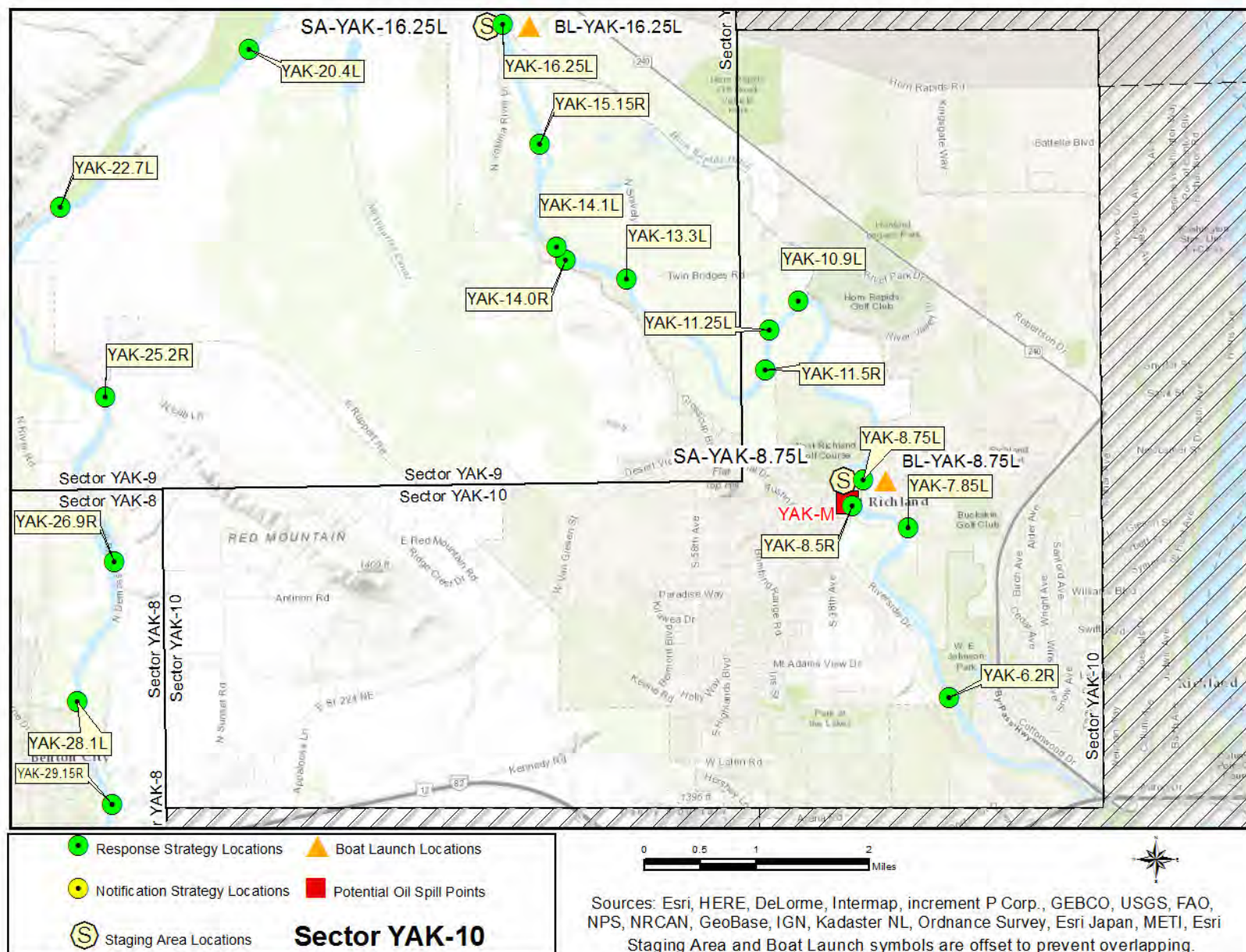
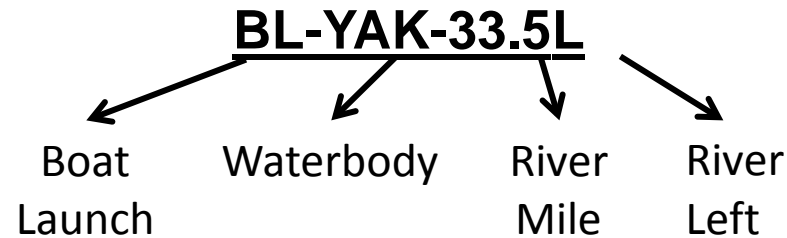


Figure 4-16: Sector Map YAK-10

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 Yakima include:

NACH = Naches River

SULFC-0.3 = Sulphur Creek Canal

YAK = Yakima River

YAKCC = Chandler Canal

YAKMC = Marion Drain (Canal)

YAKSC = Sunnyside Canal

YAKTC = Taylor Canal

YAKWAP = Wapato Canal

4.5.2 Response Strategy Matrices

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
NACH-0.1R	Confluence of the Naches River with the Yakima 46.63015 -120.51490	Collection	Boom 600ft	Yes	Onsite Must drive around barriers to access the Yakima Greenway Trail at 6th and Gordon, park along trail, no facilities	Habitat and Waterfowl, Public Recreation Site/Area, Sensitive Resources	Launch from BL-YAK-116.7L, Harlan Landing. Yakima River has extreme variability in seasonal flow	59	131
NACH-2.7R	Old Union Screen water intake 46.62720 -120.56688	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Stage on dirt/gravel drive or field, no facilities.	Riparian Habitat, Water Intakes	Go through gate, cut the chain if needed (not the locks), but notify Yakima City Water 509-575-6177. Naches River has extreme variability in seasonal flow	59	133
NACH-2.75R	Cowiche Creek water intake 46.62765 -120.56906	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Stage on gravel drive or field, no facilities.	Riparian Habitat, Water Intakes	Go through gate, cut the chain if needed (not the locks), but notify Yakima City Water 509-575-6177. Naches River has extreme variability in seasonal flow	59	135
NACH-3.05R	Fruitvale Canal off Clover Lane 46.62896 -120.57393	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Stage on gravel drive or field, no facilities.	Economic Resource, Water Intakes	Go through gate, cut the chain if needed (not the locks), but notify Yakima City Water 509-575-6177. Naches River has extreme variability in seasonal flow	59	137

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
NACH-5.95L	Long Lane at Dike 46.65086 -120.61757	Collection	Boom 300ft	Yes	Onsite Go through locked gate, room for parking in field or on the dike road which is accessible by a small vac truck	Riparian Habitat	Cut the lock on the gate to access the dike road, should be fine for a small vac truck. Naches River has extreme variability in seasonal flow	59	139
NACH-6.05L	Long Lane water intake 46.65249 -120.62096	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Can stage on the side of the road, or if you get in the gate there is a field with room for staging	Water Intakes	Water intake is at the end of the dike road but accessible from Long Lane through a locked gate (bring bolt cutters). Naches River has extreme variability in seasonal flow. Water intake may or may not be close-able.	59	141
NACH-8.95R	Eschbach Park and Congdon Screens 46.68352 -120.65387	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Cut chain (not locks) to drive to gravel/dirt field near water intake by river's edge. Bathrooms at Eschbachs Park	Public Recreation Site/Area, Sensitive Resources, Water Intakes, Wildlife Refuge	Naches River has extreme variability in seasonal flow	59	143
NACH-9.2L	City of Yakima Wastewater Treatment Plant Naches R 46.68691 -120.65454	Collection	Boom 300ft	Yes	Onsite Park in WDFW parking area, room for staging, but call City of Yakima Water to get inside fence to access dike road	General Fish and Wildlife Resources, Riparian Habitat	Naches River has extreme variability in seasonal flow	58	145

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
NACH-9.55L	Gleed Screens and Water Intake 46.69164 -120.65349	Collection	Boom 100ft, Sorbent 100ft	No	Onsite Gravel parking area inside fence 1155sqft	Fish Screens, Water Intakes	Bring bolt cutters for locked gates. Naches River has extreme variability in seasonal flow	58	147
NACH-9.85L	Yakima City Water Intake 46.69547 -120.65414	Collection	Boom 200ft	No	Onsite Gravel parking area of 3200sqft.	Water Intakes	Naches River has extreme variability in seasonal flow	58	149
NACH-10.0L	Water Intake/Fish Screen City of Yakima 46.69772 -120.65592	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Pull off on Hwy-12 is short and narrow (50'x10'), only room for two vehicles	Fish Screens, Water Intakes	Park at pull off along US Hwy-12, Naches River has extreme variability in seasonal flow	58	151
NACH-10.15L	Side Channel Inlet to City of Yakima Water Intake 46.69967 -120.65894	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-NACH-10.5L, a WDFW 5400 sq ft gravel parking area	Riparian Habitat, Water Intakes	Naches River has extreme variability in seasonal flow. Hand launch at BL-NACH-10.5L. If unable to get back upstream, take out downstream at the City of Yakima water intake NACH-10.0L or the next water intake NACH-9.55L	58	153

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
SULFC-0.3	Sulphur Creek Canal 46.24401 -120.02004	Collection	Boom 200ft, Sorbent 1ft	No	Onsite Park at Sunnyside State Wildlife Recreation Area to the southwest of the strategy location.	State Protected Area/Lands	Park at Sunnyside State Wildlife Recreation Area to the southwest of the strategy location.	63	155
YAK-6.2R	Southern end of Riverside Dr 46.27232 -119.31577	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-8.75L gravel park and portable bathroom (seasonal)	Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-8.75L	67	163
YAK-7.85L	Van Giesen St at Jones Road 46.29433 -119.32306	Collection	Boom 400ft	Yes	Onsite Staging area has 3400 sq ft dirt/gravel area for parking off road	Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch upstream at BL-YAK-8.75L	67	165
YAK-8.5R	W Van Giesen St Bridge 46.29726 -119.33345	Collection	Boom 300ft	Yes	Onsite There is an access gate at end of culdesac on S 35th Ave. Parking beside bridge and along riverside, no bathrooms	Economic Resource, General Fish and Wildlife Resources, Riparian Habitat	Launch at BL-YAK-8.75L. Parking and portable toilets (seasonal)	67	167

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-8.75L	Hyde Road Boat Launch 46.30059 -119.33130	Collection	Boom 600ft	Yes	Onsite Stage at SA-YAK-8.75L, gravel parking on side of road and portable bathrooms (seasonal)	Boat Launch/Ramp, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat	Launch onsite at BL-YAK-8.75L single gravel ramp.	67	169
YAK-10.9L	Horseshoe Lake - Downstream End 46.32392 -119.34289	Exclusion	Boom 100ft	Yes	Remote Field, accessible by dirt road	General Fish and Wildlife Resources, Riparian Habitat	Launch at BL -YAK-8.75L, Hyde Road Boat Launch, in low flow it may be necessary to hand launch on site and reduce length of boom to 300'	67	171
YAK-11.25L	Horseshoe Lake - upstream end 46.32021 -119.34834	Collection	Boom 600ft	Yes	Onsite Field, accessible by dirt road	General Fish and Wildlife Resources, Riparian Habitat	Launch at BL -YAK-8.75L, Yakima River has extreme variability in seasonal flow, in low flow it may be necessary to hand launch on site and reduce length of boom to 300'	67	173

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-11.5R	Shore off of N 46th Ave 46.31476 -119.34967	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-8.75L, if low water stage on river left near strategy location 46.314901, -119.350449	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Yakima River has extreme variability in seasonal flow. Launch at BL-YAK-8.75L, unless low water conditions and then may need to hand launch from river left near 46.314901, -119.350449 across from strategy location	67	175
YAK-13.3L	Left fork at Twin Bridges Road 46.32713 -119.37499	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-16.25L (in low water conditions you may be able to stage off N Snively Rd at Twin Bridges)	Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-16.25L, single lane. In low water conditions it may be possible to hand launch a boat from shore near the intersection of N Snively Road and N Twin Bridges Road in West Richland.	66	177
YAK-14.0R	N Yakima River Drive 46.32968 -119.38628	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-16.25L (in low water conditions try the empty lot near 80331 N Yakima River Dr West Richland)	Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-16.25L, single lane. In low water conditions you may be able to hand launch on site via the empty lot near 80331 N Yakima River Dr. West Richland, 99353	66	179

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-14.1L	Backwater area upstream of Snively Rd 46.33131 -119.38795	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-16.25L (in low water conditions try the empty lot near 80331 N Yakima River Dr West Richland)	Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-16.25L, single lane. In low water conditions you may be able to hand launch on on river right via the empty lot near 80331 N Yakima River Dr. West Richland, 99353	66	181
YAK-15.15R	Yakima River, River Mile 15.15 46.34472 -119.39073	Deflection	Boom 500ft	Yes	Remote SA-YAK-16.25L lots of parking, a porta-potty, and heavy seasonal use.	Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat	Launch on site at BL-YAK-16.25L, single lane.	66	183
YAK-16.25L	Snively Road WDFW BL 46.36021 -119.39733	Collection	Boom 800ft	Yes	Onsite SA-YAK-16.25L lots of parking, a porta-potty, and heavy seasonal use	Great Blue Heron, Recreational Use Area, Salmonid Concentrations and Habitat, Waterfowl Concentrations	Launch on site at BL-YAK-16.25L, single lane	66	185

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-18.35R	N. Harrington Road water access site 46.37962 -119.42282	Collection	Boom 900ft	Yes	Remote Stage at the Horn Rapids Boat Launch SA-YAK-18.7L, paved parking, bathrooms, dumpster, other amenities nearby.	Fish Screens, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at the Horn Rapids Boat Launch BL-YAK-18.7L, 2 lanes, 8 degree grade.	66	187
YAK-18.8L	Horn Rapids Park 46.37765 -119.43456	Deflection	Boom 500ft	Yes	Onsite Stage at the Horn Rapids Boat Launch SA-YAK-18.7L, paved parking, bathrooms, dumpster, other amenities nearby	County Park, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at the Horn Rapids Boat Launch BL-YAK-18.7L, 2 lanes, 8 degree grade	66	189
YAK-20.4L	Yakima River, River Mile 20.4 46.35753 -119.44520	Deflection	Boom 500ft	Yes	Remote Stage at SA-YAK-18.7L Horn Rapids Park but you can drive to a parking lot on Reservation Road by the site.	Backwater Habitat, County Park, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-18.7L Horn Rapids Park. Concrete plank ramp with 8 degree grade, lots of paved parking with lights. Horn Rapids Park has campground with power, potable water, and additional restrooms.	66	191

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-22.7L	Horns Rapid Park, Reservation Rd water access site 46.33734 -119.48056	Collection	Boom 500ft	Yes	Remote Stage at SA-YAK-18.7L Horn Rapids Park but you can drive to a parking lot on Reservation Road by the site	County Park, Downstream Habitat, General Fish and Wildlife Resources, Sensitive Resources Nearby	Launch at BL-YAK-18.7L Horn Rapids Park. Concrete plank ramp with 8 degree grade, lots of paved parking with lights. Horn Rapids Park has campground with power, potable water, and additional restrooms	66	193
YAK-25.2R	Intersection of Demoss Road and Ruppert Road 46.31274 -119.47257	Collection	Boom 500ft	Yes	Remote Stage at SA-YAK-29.6L Benton City boat launch, parking and porta potty	Backwater Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	66	195
YAK-26.9R	N Demoss at Songbird Island 46.29140 -119.47137	Deflection	Boom 600ft	Yes	Remote Stage at SA-YAK-29.6L Benton City boat launch, parking and porta potty	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	65	197

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-28.1L	Side Channel near N River Road 46.27338 -119.47863	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-29.6L Benton City boat launch, parking and porta potty.	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	65	199
YAK-29.15R	Kiona Pump Station 46.25996 -119.47228	Exclusion	Boom 100ft	No	Onsite Stage onsite at pump station. Paved parking area and concrete roadway.	Public Health and Safety, Water Intakes	Contact BOR at 509-406-3031 to gain access to facility but bring bolt cutters to use if necessary.	65	201
YAK-29.55L	Benton City Park 46.25543 -119.47379	Deflection	Boom 200ft	Yes	Onsite Stage at SA-YAK-29.6L large gravel parking lot, potable water, porta potty, and trash pick up.	Public Recreation Site/Area, Waterfowl and Salmonid Concentrations and Habitat	Launch onsite at BL-YAK-29.6L. Yakima River has extreme variability in seasonal flows	65	203
YAK-29.8R	Kiona Bridge on 1st Street 46.25257 -119.47625	Collection	Boom 500ft	Yes	Remote Stage at SA-YAK-29.6L the Benton City boat launch, paved parking and porta potty.	County Park, General Fish and Wildlife Resources, Recreational Shoreline Area, Sensitive Resources Nearby	Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	65	205

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-32.2L	Side Channel near W Old Inland Empire Hwy 46.27180 -119.51320	Deflection	Boom 100ft	Yes	Remote Stage at SA-YAK-29.6L the Benton City boat launch, paved parking and porta potty.	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	65	207
YAK-32.45L	Benton Irrigation District 46.27500 -119.51751	Exclusion	Boom 200ft, Sorbent 200ft	No	Onsite Paved parking, water, power, and bathroom inside pump station	Fish Ladder(s), Pump Station, Sensitive Resources, Water Intakes	There is a notification strategy for the facility to close gates and shut off pumps but deploy boom regardless. Yakima River has extreme variability in seasonal flow	65	209
YAK-32.9L	Side channel near Kiona Canal 46.27660 -119.52786	Deflection	Boom 600ft	Yes	Remote Stage at SA-YAK-29.6L the Benton City boat launch, paved parking and porta potty.	Backwater Habitat, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	65	211

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-35.95L	Just upstream of the Chandler Power Plant 46.26411 -119.59087	Collection	Boom 300ft	Yes	Onsite Stage onsite at SA-YAK-35.95L	General Fish and Wildlife Resources, Power Generation, Recreational Shoreline Area	Launch a small boat onsite, may need to hand launch depending on water level. Gravel road to shore with shallow angle at bank. Depending on water level a small trailer may be usable, flat sandy bottom near shore.	65	213
YAK-41.9L	Side channel near W 119 Pr NW 46.23073 -119.67861	Deflection	Boom 200ft	Yes	Remote Stage at SA-YAK-47.65R, parking, potable water, power, lights, trash pickup, bathrooms, covered spaces and 4G.	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-47.65R, double concrete ramp 8 degree grade.	65	215
YAK-42.9L	Side Channel near Chandler Canal 46.22423 -119.69526	Deflection	Boom 300ft	Yes	Remote SA-YAK-46.5L has no amenities. Call City of Prosser to gain access.	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-46.5L, dirt ramp, 1 lane 8 degree grade. Ok to launch small trailer in high water, sandy beach in low water conditions, may need to hand launch.	64	217

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-46.2L	Yakama Nation Fish Hatchery 46.21378 -119.75920	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Call Yakama Nation at 509-865-5121 to gain access to hatchery property	Fish Hatchery	Dirt gravel road access to the river through hatchery land	64	219
YAK-47.2R	Wine Country Road Bridge 46.20985 -119.77591	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-47.65R has lots of parking, potable water, power, lights, trash pickup, bathrooms, covered spaces	Economic Resource, Sensitive Resources	Launch at BL-YAK-47.65R, double concrete ramp 8 degree grade.	64	221
YAK-47.65R	Riverfront Park boat launch 46.20396 -119.77738	Collection	Boom 600ft	Yes	Onsite Stage at SA-YAK-47.65R, lots of parking, potable water, power, lights, trash pickup, bathrooms, covered spaces	City Park, Recreational Use Area, Sensitive Resources	Launch onsite at BL-YAK-47.65R, double concrete ramp 8 degree grade. Yakima River has extreme variability in seasonal flow	64	223
YAK-55.3M	Side Channel Inlet Near Euclid Bridge 46.21752 -119.92026	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.	Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl	Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.	63	225

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-55.4R	Side Channel Near Euclid Bridge 46.21881 -119.92236	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.	Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl	Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.	63	227
YAK-59.8L	Mabton Bridge boat launch 46.23185 -119.99995	Collection	Boom 700ft	Yes	Onsite SA-YAK-59.8L, large gravel parking lot, no amenities, WDFW aquatic lands open to hunting, Discover Pass required	Boat Launch/Ramp, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, State Protected Area/Lands, Waterfowl and Salmonid Concentrations and Habitat	Launch onsite at BL-YAK-59.8L single gravel ramp 4 degree grade. Yakima River has extreme variability in seasonal flows	63	229

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-60.2R	Mabton West Lateral Drain 46.23203 -120.00823	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.	Bird Habitat, Creek Habitat, Great Blue Heron Rookeries, Sensitive Resources Nearby	Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.	63	231
YAK-60.45R	Horseshoe Lake Entrance 46.23412 -120.01277	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.	Backwater Habitat, Bird Habitat, Great Blue Heron Rookeries, Wintering Waterfowl	Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.	63	233
YAK-61.2L	Sunnyside Wildlife Recreation Area Canal 46.23847 -120.02422	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.	Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations	Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.	63	235
YAK-63.8L	Horseshoe Pond Entrance 46.24770 -120.06158	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tri	Backwater Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations	Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	237

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-65.2L	Bounds Pond Canal 46.25226 -120.07576	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land	Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-66.8R, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	239
YAK-65.7L	Unnamed Pond Entrance 46.25549 -120.08522	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-66.8 (1.1mi upstream from strategy location)	63	241
YAK-66.85R	Backwater near Bond Road primitive boat launch. 46.24358 -120.08304	Exclusion	Boom 100ft	Yes	Onsite Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land	Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat	Launch at BL-YAK-66.8R, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	245

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-66.8R	Bond Road primitive boat launch. 46.24287 -120.08302	Collection	Boom 600ft	Yes	Onsite Stage onsite at SA-YAK-66.8 R dirt field with no amenities, contact the Yakama Nation 360-280-6073	Backwater Habitat, Great Blue Heron Rookeries, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat	Launch onsite at BL-YAK-66.8R a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	243
YAK-69.0R	Backwater area downstream of South Drain 46.25622 -120.10403	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailer-ed small boats during high water, hand launch only with low water conditions.	63	247
YAK-69.3R	South Drain 46.25857 -120.10719	Exclusion	Boom 100ft, Sorbent 100ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939	Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	249

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-69.5R	Satus Creek 46.26137 -120.11074	Exclusion	Boom 200ft, Sorbent 200ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939	Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	251
YAK-70.25L	S. Emerald Road backwater area 46.26442 -120.10389	Exclusion	Boom 300ft	Yes	Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.	63	253
YAK-74.9L	Emerald Road backwater area 46.29699 -120.09968	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	255
YAK-77.05R	Coulee Drain and backwater area 46.29641 -120.12516	Exclusion	Boom 200ft, Sorbent 200ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade. Notify the Yakama Nation at 360-280-6073 when working on tribal land.	62	257

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-77.5R	Satus Longhouse Road backwater area 46.30465 -120.12979	Exclusion	Boom 1ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	259
YAK-78.0L	3073 Emerald Rd backwater area 46.31422 -120.13454	Deflection	Boom 200ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	261
YAK-80.55R	Toppenish Creek and Chausee Rd backwater area 46.32417 -120.16843	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Creek Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	263

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-82.8L	Granger Public Works boat launch 46.33539 -120.19587	Collection	Boom 500ft	Yes	Onsite SA-YAK-82.8L large gravel parking area with no facilities	Boat Launch/Ramp, Economic Resource, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch onsite at BL-YAK-82.8L single concrete ramp at 7 degree grade.	62	265
YAK-84.1R	Connie Road backwater area N 46.34821 -120.21409	Exclusion	Boom 300ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	267
YAK-84.6R	Connie Road backwater area 46.35421 -120.22398	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	269

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-85.1L	Backwater area near 700 Ruehl Way 46.35464 -120.21346	Deflection	Boom 200ft	Yes	Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.	62	271
YAK-87.0L	Side channel near 15340 Yakima Valley Hwy 46.38045 -120.22748	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	62	273
YAK-87.55L	Drain and backwater near 14682 Yakima Valley Hwy 46.38533 -120.23615	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	62	275
YAK-88.75L	Backwater area near 310 Railroad Ave E, Zillah 46.39199 -120.24818	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	277

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-89.9R	Backwater area across I-82 from Loges Park 46.39584 -120.26397	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	279
YAK-90.7R	Back channel to the SE of N Meyers Road bridge 46.39564 -120.27812	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Area, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	281
YAK-90.95R	N Meyers Bridge 46.39938 -120.28110	Collection	Boom 500ft	Yes	Remote Stage at SA-YAK-91.05L	Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L, across the street, N Meyers Rd boat launch has a single gravel ramp with an 8 degree grade.	61	283

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-91.7L	Backwater Channel near Pond 7 in Zillah 46.40591 -120.28885	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	285
YAK-91.85R	Fraley Road backwater area 46.40489 -120.29222	Deflection	Boom 200ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	287
YAK-92.45M	Mid-river channel at river mile 92.45 46.40312 -120.30537	Deflection	Boom 300ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	289
YAK-92.6L	Yakima River mile 92.6 46.40416 -120.30660	Deflection	Boom 200ft	Yes	Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area	Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	291

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-93.1R	Evergreen Hwy Bridge 46.40969 -120.31469	Collection	Boom 400ft	Yes	Onsite Narrow gravel/dirt drive with a gate at the entrance, no facilities	Backwater Habitat, General Fish and Wildlife Resources, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	293
YAK-94.15R	Weirman Road backwater habitat 46.41406 -120.32962	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-94.5R (.35 miles upstream), parking but no facilities	Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-94.5R (.35 miles upstream), primitive launch on cobblestone beach, may need to hand launch in low water.	61	295

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-96.95L	Just upstream of Snipes/Allen Fish Screen 46.44394 -120.34883	Collection	Boom 200ft, Sorbent 200ft	Yes	Onsite Dirt/gravel parking area next to the Snipes/Allen Fish Screen, no bathroom or other facilities	Backwater Habitat, Economic Resource, Great Blue Heron Rookeries, Osprey Nest(s), Water Intakes	Hand launch a small boat onsite (or use waders in shallow water). Drive up on the W side of the Snipes/Allen Screen facility and continue around to strategy location. Call Bureau of Reclamation 509-406-3031 to notify work being done at their facility, and Yakama Nation 360-280-6073. Yakima River has extreme variability in seasonal flow	61	297
YAK-97.95M	Small backwater channel at YAK-97.95 on river left 46.44894 -120.36456	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-99.4R on Yakama Nation reservation, no amenities	Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-99.4R, cobblestone beach, 3 degree grade	61	299

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-98.15L	Yakima River mile 98.15 46.45181 -120.36442	Exclusion	Boom 300ft	Yes	Remote Stage at SA-YAK-99.4R on Yakama Nation reservation, no amenities	Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-99.4R, cobblestone beach, 3 degree grade	61	301
YAK-99.4L	Across the river from SA/BL-YAK-99.4R 46.45813 -120.38289	Deflection	Boom 200ft	Yes	Remote Stage at SA-YAK-99.4R on Yakama Nation reservation, no amenities	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-99.4R, cobblestone beach, 3 degree grade	61	303
YAK-100.5R	Donald Wapato Bridge 46.46492 -120.40067	Collection	Boom 300ft	Yes	Onsite Dirt roads, lots of room for parking, no facilities	General Fish and Wildlife Resources, Sensitive Resources, Tribal Lands/ Resources	Hand launch onsite. Tribal land, must drive off-road on dirt tracks to get to the water's edge.	61	305
YAK-102.1R	Yakima River River Mile 102.1 46.48403 -120.42055	Exclusion	Boom 300ft	Yes	Remote Stage at SA-YAK-103.05L Mellis Frontage Rd, bathrooms and ample parking.	Backwater Habitat, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-103.05L Mellis Frontage Rd. The Yakima River has extreme variability in seasonal flows	61	307

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-102.2L	Mellis Frontage Road backwater habitat 46.48584 -120.42178	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-103.05L Mellis Frontage Rd, bathrooms and ample parking	Backwater Habitat, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-103.05L Mellis Frontage Rd. The Yakima River has extreme variability in seasonal flows	61	309
YAK-103.1R	Renegade Raceway Backwater S 46.49098 -120.43269	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-103.05L Mellis Frontage Rd, parking and bathrooms	Backwater Habitat, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-103.05L Mellis Frontage Rd. Yakima River has extreme variability in seasonal flow	60	311
YAK-104.25R	Sunnyside Diversion Dam West Access Road 46.50167 -120.45161	Deflection	Boom 300ft	Yes	Onsite Dam access road, roadside parking, no facilities	Backwater Habitat, Fish Ladder(s), General Fish and Wildlife Resources, Tribal Lands/ Resources	Hand launch on site. Bring machete. Use Sunnyside Irrigation District's west access road (call them 509-837-6980 and the Yakama Nation 509-865-5121 but bring bolt cutters incase gate is locked). Yakima River has extreme variability in seasonal flow	60	313

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-104.6L	Parker Bridge 46.50620 -120.45338	Collection	Boom 300ft	Yes	Onsite Stage on the NE side of the Parker Bridge, no facilities	Sensitive Resources, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat	Hand launch onsite. Yakima River has extreme variability in seasonal flow	60	315
YAK-105.8R	Parker Bridge Rd Backwater 46.51743 -120.46498	Exclusion	Boom 300ft	Yes	Remote Stage at SA-YAK-106.3L below the Wapato Dam east side spillway, dirt/gravel track only	Backwater Habitat	Hand launch a small boat at BL-YAK-106.3L.	60	317
YAK-106.75R	Just upstream of the Wapato Diversion Dam 46.52732 -120.47495	Collection	Boom 500ft	Yes	Remote Stage at SA-YAK-107.1L Century Landing, parking, bathroom, trash	Federally Protected Area/Lands, Fish Ladder(s), Migratory Bird Populations, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl	Call BNSF before deployment (817-352- 2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3) and Yakama Nation (509-945-2939); strategy is on tribal land. Yakima River has extreme variability in seasonal flow.	60	319

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-107.1L	Century Landing 46.53097 -120.47062	Collection	Boom 800ft	Yes	Onsite Stage at SA-YAK-107.1 Century Landing, parking, bathroom and trash	Boat Launch/Ramp, Migratory Bird Populations, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl	Launch onsite at BL-YAK-107.1L Century Landing. Yakima River has extreme variability in seasonal flow	60	321
YAK-108.8L	Yakima River, River Mile 108.8 46.55172 -120.46773	Exclusion	Boom 200ft	Yes	Remote Stage off of the Yakima City Greenway Trail	Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat	Hand launch onsite off the Yakima City Greenway Trail.	60	323
YAK-110.0M	Yakima River, River Mile 110.0 46.56607 -120.46530	Deflection	Boom 200ft	Yes	Onsite Stage off of the Yakima City Greenway Trail.	Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat	Hand launch onsite off the Yakima City Greenway Trail.	60	325

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-110.85R	South of Yakima City Wastewater Facility 46.57553 -120.46515	Exclusion	Boom 100ft	Yes	Onsite Stage off of the Yakima City Greenway Trail	Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat	Hand launch onsite off the Yakima City Greenway Trail. Yakima River has extreme variability in seasonal flow	60	327
YAK-111.0R	Yakima Wastewater Treatment Plant 46.57790 -120.46703	Collection	Boom 300ft	Yes	Onsite Stage on the Yakima Greenway Trail directly behind the Yakima Wastewater Treatment facility, paved no facilities	Backwater Habitat, Bird Habitat, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat	Hand launch a small boat from shore (some areas have rip rap) off the Yakima Greenway Trail. Access the trail through the Yakima City Wastewater Treatment facility on E Viola Ave (2 gates bring bolt cutters). Yakima River has extreme variability in seasonal flow	60	329
YAK-112.95L	Dike Road below Terrace Heights Bridge 46.60311 -120.47068	Collection	Boom 300ft	Yes	Onsite Stage on Dike Road, gravel access road with no facilities	Backwater Habitat, Bird Habitat, City Park, Recreational Use Area, State Park, Waterfowl and Salmonid Concentrations and Habitat	Hand launch a small boat onsite. Access to Dike Road is through the parking lot just downstream of the Terrace Heights Bridge on river left. Bring bolt cutters to cut lock on gate. Yakima River has extreme variability in seasonal flow	59	331

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-114.3L	Hartford Road backwater area 46.61361 -120.48591	Exclusion	Boom 100ft, Sorbent 100ft	No	Onsite Park at end of road and stage in grass/dirt beside side channel	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Backwater channel may be seasonal	59	333
YAK-115.0L	Marsh Road 46.62229 -120.49020	Exclusion	Boom 100ft	No	Onsite Stage at the end of the spit on a dirt road adjacent to the canal off of Marsh Rd, no facilities	Backwater Habitat, Economic Resource	Gravel road conditions may vary.	59	335
YAK-116.0L	1201 Rest Haven Road 46.63045 -120.50848	Exclusion	Boom 100ft	Yes	Remote Stage at SA-YAK-116.7L, Harlan Landing	Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-116.7L, Harlan Landing. Yakima River has extreme variability in seasonal flows	59	337
YAK-116.8L	N end of Harlan Landing Park 46.63257 -120.52428	Collection	Boom 400ft	Yes	Onsite Stage onsite or at the Harlan Landing staging SA-YAK-116.7L, lots of parking and bathrooms	Boat Launch/Ramp, Habitat and Waterfowl, Public Recreation Site/Area	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Use plywood to ease access over heavy brush at river's edge. Yakima River has extreme variability in seasonal flow.	59	339

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-117.2R	Golf Club Road Water Viewing Platform 46.63781 -120.52462	Collection	Boom 300ft	Yes	Onsite Stage at parking area for Riverside Playland Park, restrooms, water and power available	City Park, Great Blue Heron Rookeries, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-116.7L, Harlan Landing Park. Yakima River has extreme variability in seasonal flows.	59	341
YAK-117.5R	Golf Course Road Wetlands 46.64088 -120.51956	Exclusion	Boom 200ft	Yes	Remote Stage at SA-YAK-116.7L, Harlan Landing Park, paved parking, bathrooms, picnic tables and covered space	Backwater Habitat, Emergent Wetlands, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat	Launch at BL-YAK-116.7L, Harlan Landing Park, which has a single lane, with an 8 degree grade. Yakima River has extreme variability in seasonal flows.	59	343
YAK-119.1R	Behind Monson Fruit on Rushmore Rd 46.65641 -120.50850	Collection	Boom 400ft	Yes	Onsite Gravel drive with room for staging, no facilities	Emergent Wetlands, Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat	Yakima River has extreme variability in seasonal flows. In some conditions you may be able to hand launch a small boat onsite, otherwise launch at BL-YAK-116.7L (2.4 miles downstream), Harlan Landing.	59	345

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-121.3L	Harrison Road Bridge 46.67996 -120.49087	Collection	Boom 300ft	Yes	Onsite Rough grave drive with room to stage several vehicles, no facilities.	Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat	Yakima River has extreme variability in seasonal flows. In some conditions you may be able to hand launch a small boat onsite, otherwise launch at BL-YAK-116.7L, Harlan Landing.	59	347
YAK-122.15R	Above the Taylor Canal Head Gate 46.69119 -120.49223	Collection	Boom 100ft, Sorbent 100ft	No	Onsite Gravel parking area with room for staging several strategies, no facilities	Water Intakes	Yakima River has extreme variability in seasonal flow.	58	349
YAK-122.2M	Upstream of Taylor Canal headgate 46.69248 -120.49206	Diversion	Boom 300ft	Yes	Onsite Stage at Taylor Canal head gate	Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat	Hand launch onsite above the Taylor Canal headgate.	58	351
YAK-128.05R	Roza Diversion Dam 46.75122 -120.46678	Collection	Boom 500ft	Yes	Onsite Stage onsite at the Roza Diversion Dam, parking, bathrooms, covered spaces, power and water available	Canyon/ Riparian Habitat, Fish Ladder(s), Fish Pens, Public Lands/Facilities	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate access/safety with USBOR (509-406-3031); stay upstream of Dam's safety cable.	58	353

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAK-129.4R	Roza Recreational Area Boat Launch 46.76383 -120.45731	Collection	Boom 300ft	Yes	Remote Stage at SA-YAK-129.4L, large paved parking area, vault toilets. BLM managed rec site.	Boat Launch/Ramp, Federally Protected Area/Lands, Recreational Use Area	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.	58	355
YAK-129.8L	Roza Recreation Area 46.76656 -120.45586	Deflection	Boom 400ft	Yes	Onsite Stage at SA-YAK-129.4L Roza Rec Area has vault toilets, paved parking, user fee	Federally Protected Area/Lands, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.	58	357
YAK-130.6L	Mile Post 8 boat launch 46.77572 -120.45366	Collection	Boom 500ft	Yes	Onsite Paved parking, boat launch, no other facilities	Boat Launch/Ramp, General Fish and Wildlife Resources	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Yakima River has extreme variability in seasonal flows.	58	359

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAKCC-35.8	Chandler Canal boat launch above the power plant 46.26824 -119.59227	Collection	Boom 100ft, Sorbent 100ft	No	Onsite Stage on site, small gravel parking lot, no other amenities	General Fish and Wildlife Resources, Power Generation, Riparian Habitat	Parking area at Chandler Canal boat launch above Chandler Power Plant	65	361
YAKCC-42.35	West Hess Road crossing Chandler Canal 46.22840 -119.68716	Collection	Boom 100ft, Sorbent 100ft	No	Onsite Stage on the pull-off at the W Hess Road bridge crossing the Chandler Canal	Public Health and Safety, Public Lands/Facilities	Parking available on the side of W Hess Road at the bridge	64	363
YAKCC-45.0	N Bunn Road bridge over the Chandler Canal 46.22361 -119.73727	Collection	Boom 300ft, Sorbent 100ft	Yes	Onsite Room to stage along the road, bathroom available at the Yakama Nation Fish Hatchery across the street	Public Health and Safety, Public Lands/Facilities	Small boat launch into the canal located here. Gravel road with room for parking on the shoulders.	64	365
YAKCC-46.15R	Chandler Canal Screen Facility 46.21593 -119.75958	Collection	Boom 300ft, Sorbent 100ft	Yes	Onsite Room to stage along the road, bathroom available at the Prosser Water Treatment facility across the street	Fish and Wildlife Resources, Public Health and Safety, Public Lands/Facilities	Small boat launch into the canal located here. Gravel road with room for parking on the shoulders.	64	367

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAKMC-82.6	Indian Church Road bridge at Marion Drain (Canal) 46.33076 -120.19949	Collection	Boom 100ft, Sorbent 100ft	No	Onsite Stage next to the canal on the SE side of the intersection with WA 223 and Indian Church Road	Creek Habitat, Riparian Area, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat	Call the Yakama Nation 360-280-6073 when working on tribal lands. Parking is available along the shoulder at the intersection of Indian Church and WA 223 or across the bridge to the SE on a dirt farm road off Indian Church	62	369
YAKSC-103.0	Burke Road bridge crossing Sunnyside Canal 46.49392 -120.42458	Collection	Boom 100ft	No	Onsite Paved road with room for parking on the gravel shoulders.	Public Health and Safety, Public Lands/Facilities	Paved road with gravel shoulders on either side of the canal.	60	371
YAKSC-103.6	Sunnyside Canal Fish Screen 46.49683 -120.44094	Collection	Boom 200ft, Sorbent 200ft	No	Onsite Stage onsite on either side of the facility, bring vac truck or skimmer and portable storage to canal left	Fish Screens, Public Health and Safety, Public Lands/Facilities	Contact the Sunnyside Irrigation District 509-837-6980 for gate and facility access before deploying this strategy	60	373
YAKTC-121.25	Tree Top Water Treatment Facility 46.67843 -120.49722	Collection	Boom 100ft, Sorbent 100ft	No	Onsite Gravel drive with room for staging, no facilities	Public Health and Safety, Public Lands/Facilities	Gated drive, call Tree Top Water Treatment Facility 509-449-3054 to gain access	59	375

Strategy Name	Location	Strategy Type	Boom Length	Boat Req?	Staging Area	Resources At Risk	Comments	Sector Map (Page #)	Strategy Details (Page#)
YAKWAP-104.65	Lateral A Road and Wapato Canal 46.50708 -120.47795	Collection	Boom 300ft, Sorbent 300ft	No	Onsite Stage onsite where the intersection of two farm roads, which provides ample room for parking	Public Health and Safety, Tribal Lands/ Resources	Contact the Yakama Nation 360-280-6073 to let them know you are deploying a strategy on the Yakama Reservation	60	377
YAKWAP-106.2	Wapato Fish Screens 46.51832 -120.47873	Collection	Boom 300ft, Sorbent 200ft	No	Onsite Gravel parking area adjacent to Wapato Fish Screen	Economic Resource, Fish Ladder(s)	Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3). Notify Yakama Nation (509-945-2939); strategy is on tribal land.	60	379

4.5.3 Notification Strategy Matrices

Strategy Name	Location	Strategy Type	Resources at Risk	Implementation	Comments	Sector Map (Page #)	Strategy Details (Page#)
NACH-3.7R-N	City of Yakima Water Intake 46.63145 -120.58718	Notification	Economic Resource, Fish Screens, Public Health and Safety, Public Lands/Facilities, Water Intakes	Notify the City of Yakima by calling 509-575-6154	Notify City of Yakima about spill so they can take timely action to protect the resources under their control.	59	383
NACH-9.85L-N	Yakima City Water Intake & Water Treatment Plant 46.69527 -120.65397	Notification	Economic Resource, Public Health and Safety, Public Lands/Facilities, Water Intakes	Notify the City of Yakima by calling 509-575-6177	Notify the City of Yakima about the spill so they can take timely action to protect the resources under their control	58	385
YAK-32.45L-N	Benton Irrigation District Pump Station 46.27482 -119.51683	Notification	Fisheries Habitat, Pump Station, Recreational Fishery	Notify the Benton Irrigation District Manager at 509-947-8908	Notify the Benton Irrigation District about spill so they can take timely action to protect the resources under their control	65	387
YAK-46.1L-N	Yakama Indian Nation Fish Hatchery 46.21534 -119.75911			Notify the Yakama Indian Nation Fish Hatchery Manager at 509-945-5899, or Foreman at 509-961-9424	Notify the Yakama Indian Nation Fish Hatchery about spill so they can take timely action to protect the resources under	64	389

YAK-103.85L-N	Sunnyside Diversion Dam and Canal Head Gate 46.49837 -120.44438	Notification	Economic Resource, Fish Screens, Public Health and Safety, Public Lands/Facilities, Water Intakes	Notify Sunnyside Valley Irrigation District Manager by calling 509-837-6980	Notify Sunnyside Valley Irrigation District of spill so they can take timely action to protect the resources under their control	60	391
YAK-114.75-N	US Bureau of Reclamation Yakima Field Office 46.61630 -120.47833	Notification	Economic Resource, Fish Ladder(s), Fish Screens, Public Lands/Facilities, Water Intakes	Call US Bureau of Reclamation Yakima Field Office Operations Manager, at 509-406-3031	Notify the US Bureau of Reclamation about the spill so they can take timely action to protect the resources under their control	59	393

4.5.4 Staging Area Matrices

Staging Area Name	Location	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page #)
SA-NACH-10.5L	Naches 10.5 Hand Launch	46.70286 -120.66067	7458 US-12 Naches, WA 98937	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	NACH-10.15L	Hand launch with 7500sqft of parking, no amenities	58	399
SA-YAK-8.75L	Hyde Road Boat Launch	46.30054 -119.33090	3100 Hyde Road Richland, WA 99354	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-6.2R , YAK-8.75L , YAK-10.9L YAK-11.5R ,	Gravel parking on the side of the road, no amenities.	67	403
SA-YAK-16.25L	Snively Road Boat Launch	46.35995 -119.39634	4116 N Snively Rd West Richland, WA 99353	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-13.3L , YAK-14.0R YAK-14.1L , YAK-15.15R , YAK-16.25L ,	Large gravel parking lot and porta-potty at this WDFW boat launch	66	405
SA-YAK-18.7L	Horn Rapids Park Boat Launch	46.38044 -119.43220	115799 N WA-225 Benton City, WA 99320	Benton County Parks Department Manage parks 5600A West Canal Place, A101 Kennewick, WA 99336 509-783-3118	YAK-18.35R , YAK-18.8L YAK-20.4L ,	Horn Rapids Park has a camping area with flush toilets, showers, power, water, trash etc. Boat ramp has paved parking with lights.	66	407

SA-YAK-29.6L	Benton City Boat Launch	46.25467 -119.47409	101 Abby Ave Benton City, WA 99320	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-25.2R , YAK-26.9R , YAK-28.1L , YAK-29.55L , YAK-29.8R , YAK-32.2L , YAK-32.9L	Large gravel parking lot, with porta potty, potable water, and trash pickup.	65	409
SA-YAK-35.95L	Just upstream of Chandler Power Plant Hand Launch	46.26462- 119.59112	47400 W Old Inland Empire HwyBenton City, WA 99320	US Bureau of ReclamationYakima Field Office ManagerYakima, WA 98901-2058509- 406-3031	YAK-35.95L	Dirt track to clearing, room for staging, no amenities	65	411
SA-YAK-46.5L	Prosser Wastewater Treatment Plant Boat Launch	46.21250 -119.76559	999 Grande Rd Prosser, WA 99350	City of Prosser City Dispatch (Wastewater Treatment Facility) Prosser, WA 99350 509-786-2332	YAK-42.9L	Gravel/dirt trail to river, no amenities. Property is gated and locked after hours. Bring bolt cutters and cut chain (not locks). Call City of Prosser to let them know you are accessing the property	64	413
SA-YAK-47.65R	Riverfront Park Boat Launch	46.20414 -119.77707	904 Sheridan Ave Prosser, WA 99350	City of Prosser Parks and Recreation Prosser, WA 66350 509-786-2332	YAK-41.9L , YAK-47.2R , YAK-47.65R ,	Large asphalt lot, bathrooms, potable water, trash, power, lights.	64	415
SA-YAK-59.8L	Mabton Bridge Boat Launch	46.23216 -119.99989	6901 Mabton- Sunnyside Rd Mabton, WA 98935	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-55.3M , YAK-55.4R , YAK-59.8L , YAK-60.2R , YAK-60.45R , YAK-61.2L , ,	Large gravel parking lot, Discover Pass required, no amenities, WDFW aquatic lands open to hunting.	63	417

SA-YAK-66.8R	Bond Road Primitive Boat Launch	46.24277 -120.08356	119 Florence Road Mabton, WA 98935	Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939	YAK-63.8L YAK-65.2L YAK-65.7L , YAK-66.8R YAK-69.0R , YAK-69.3R , YAK-69.5R , , YAK-66.85R , YAK-70.25L ,	Dirt parking area of 3500sqft between a field and the river, no amenities. Call Yakama Nation 509- 945-2939 if accessing site.	63	419
SA-YAK-82.8L	Granger Public Works boat launch	46.33544- 120.19550	500 East A StreetGranger, WA 98932	City of GrangerPublic WorksGranger, WA 98932509-854-2770	YAK-74.9L , YAK-77.05R , YAK-77.5R , YAK-78.0L , YAK-80.55R YAK-84.1R , YAK-84.6R ,	Large gravel parking area, no access issues (not gated), but no amenities	62	421
SA-YAK-91.05L	N Meyers Rd boat launch	46.40075 -120.28093	3000 N Meyers Rd Toppenish, WA 98948	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-87.0L YAK-87.55L , YAK-88.75L , , YAK-89.9R YAK-90.7R YAK-90.95R , YAK-91.7L , YAK-91.85R , YAK-92.45M , YAK-92.6L ,	13,000 sq ft gravel parking lot with porta potty, WDFW access area, need Discover Pass (may be closed to the public in 2017 due to bridge construction but should still be accessible to responders in an emergency)	61	423
SA-YAK-94.5R	Wierman Rd Boat Launch	46.41916 -120.33336	1402 Wierman Rd Toppenish, WA 98948	Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939	YAK-94.15R	On Tribal Land - Dirt road to gravel beach, room for parking but no facilities. Call Yakama Nation for access 360-280- 6073	61	425

SA-YAK-99.4R	E Wapato Road Primitive Boat Launch	46.45813 -120.38441	1561 E Wapato Rd Wapato, WA 98951	Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939	YAK-97.95M YAK-98.15L , YAK-99.4L ,	Cobblestone beach off dirt/gravel road on Yakama Reservation, call them at 360-280- 6073 if accessing site	61	427
SA-YAK-103.05L	Mellis Frontage Rd boat launch	46.49085 -120.43090	300 Mellis Rd Wapato, WA 98951	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-102.1R , YAK-102.2L , YAK-103.1R	30,000sqft gravel parking area with porta potty, WDFW water access site requires Discover Pass	60	429
SA-YAK-106.3L	Downstream of the Wapato East Spillway	46.52258- 120.47163	1811 Thorp RdWapato, WA 98951	Wapato Irrigation District (Bureau of Indian Affairs)Emergency contact509-877-3155 x3 Yakama Nation Environmental Management Program 509-945-2939	YAK-105.8R	Dirt/gravel track, limited parking not facilities	60	431
SA-YAK-107.1L	Century Landing Boat Launch	46.53069 -120.47028	82 Thorp Rd Wapato, WA 98951	Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280	YAK-106.75R	7,500sqft of paved parking with a vault toilet and trash pick up	60	433

SA-YAK-116.7L	Harlan Landing Park	46.63158 -120.52175	41 Rovetto Road Yakima, WA 98901	Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280	YAK-114.3L YAK-116.0L YAK-117.5R,	Paved parking, bathrooms, picnic tables, trash	59	435
SA-YAK-129.4L	Roza Recreational Boat Launch	46.76393 -120.45662	8681 Canyon Road Yakima, WA 98901	Bureau of Land Management Wenatchee Office Wenatchee, WA 98801 509-665-2100	YAK-129.8L	Paved double ramp with ample parking, vault toilets, fees, has heavy recreational use. Contact BLM 509-665-2100 if using boat launch	58	437
SA-YAK-130.6L	Mile Post 8 boat launch	46.77569 -120.45272	70 Roza View Dr Yakima, WA 98901	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-130.6L	Parking area, bathrooms, no other facilities	58	439

4.5.5 Boat Launch Matrices

Strategy Name	Name	Position	Nearest Address	Contact	Strategies Served	Comments	Sector Map (Page #)	Strategy Details (Page#)
BL-NACH-10.5L	Naches 10.5 Hand Launch	46.70286 -120.66067	7458 US-12 Naches, WA 98937	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	NACH-10.15L	Hand launch only. There is 7500sqft of parking, no amenities	58	447
BL-YAK-8.75L	Hyde Road Boat Launch	46.30054 -119.33090	3100 Hyde Road Richland, WA 99354	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-6.2R YAK-7.85L YAK-8.5R YAK-8.75L YAK-10.9L YAK-11.25L YAK-11.5R	Single gravel ramp, 7 degree grade, roadside parking, no amenities. Launch sees heavy recreational use in summer	67	451
BL-YAK-16.25L	Snively Road Boat Launch	46.35995 -119.39634	4116 N Snively Rd West Richland, WA 99353	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-13.3L YAK-14.0R YAK-14.1L YAK-15.15R YAK-16.25L	Single gravel ramp, 8 degree grade. Gravel parking and porta-potty at this WDFW boat launch	66	453
BL-YAK-18.7L	Horn Rapids Park Boat Launch	46.38044 -119.43220	115799 N WA-225 Benton City, WA 99320	Benton County Parks Department Manage parks 5600A West Canal Place, A101 Kennewick, WA 99336 509-783-3118	YAK-18.35R YAK-18.8L YAK-20.4L	Concrete plank ramp with 8 degree grade, lots of paved parking with lights. Horn Rapids Park has campground with power, potable water, and additional restrooms	66	455

BL-YAK-29.6L	Benton City Boat Launch	46.25467 -119.47409	101 Abby Ave Benton City, WA 99320	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-25.2R YAK-26.9R YAK-28.1L YAK-29.55L YAK-29.8R YAK-32.2L YAK-32.9L	Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.	65	457
BL-YAK-35.95L	Just upstream of Chandler Power Plant Hand Launch	46.26462 -119.59112	47400 W Old Inland Empire Hwy Benton City, WA 99320	US Bureau of Reclamation Yakima Field Office Manager Yakima, WA 98901- 2058 509-406-3031	YAK-35.95L	Dirt ramp, can use small trailer in high water, hand launch only in low water conditions	65	459
BL-YAK-46.5L	Prosser Wastewater Treatment Plant Boat Launch	46.21250 -119.76559	999 Grande Rd Prosser, WA 99350	City of Prosser City Dispatch (Wastewater Treatment Facility) Prosser, WA 99350 509-786-2332	YAK-42.9L	Single grave/dirt ramp. Ok to launch small trailer in high water, sandy beach in low water conditions, may need to hand launch. Bring a machete to cut back vegetation at riverbank. Property is gated and locked after hours. Bring bolt cutters and cut chain (not locks). Call City of Prosser to let them know you are accessing the property	64	461
BL-YAK-47.65R	Riverfront Park Boat Launch	46.20414 -119.77707	904 Sheridan Ave Prosser, WA 99350	City of Prosser Parks and Recreation Prosser, WA 66350 509-786-2332	YAK-41.9L , YAK-47.2R YAK-47.65R	Double concrete ramp, 8 degree grade, no fee, lights.	64	463

BL-YAK-59.8L	Mabton Bridge Boat Launch	46.23216 -119.99989	6901 Mabton-Sunnyside Rd Mabton, WA 98935	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-55.3M YAK-55.4R YAK-59.8L YAK-60.2R YAK-60.45R YAK-61.2L	Single gravel ramp, 4 degree grade	63	465
BL-YAK-66.8R	Bond Road Primitive Boat Launch	46.24277 -120.08356	119 Florence Road Mabton, WA 98935	Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939	YAK-63.8L YAK-65.2L YAK-65.7L YAK-66.8R YAK-66.85R YAK-69.0R YAK-69.3R YAK-69.5R YAK-70.25L	Narrow dirt track leads to the river, can launch a small boat in high water, must hand launch in low water conditions. Call Yakama Nation if accessing site.	63	467
BL-YAK-82.8L	Granger Public Works boat launch	46.33544 -120.19550	500 East A Street Granger, WA 98932	City of Granger Public Works Granger, WA 98932 509-854-2770	YAK-74.9L YAK-77.05R YAK-77.5R YAK-78.0L YAK-80.55R YAK-84.1R YAK-84.6R	Single lane concrete ramp, 7 degree grade.	62	469
BL-YAK-91.05L	N Meyers Rd boat launch	46.40075 -120.28093	3000 N Meyers Rd Toppenish, WA 98948	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-87.0L YAK-87.55L YAK-88.75L YAK-89.9R YAK-90.7R YAK-90.95R YAK-91.7L YAK-91.85R YAK-92.45M YAK-92.6L YAK-93.1R	Single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass	61	471

BL-YAK-94.5R	Wierman Rd Boat Launch	46.41916 -120.33336	1402 Wierman Rd Toppenish, WA 98948	Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939	YAK-94.15R	On Tribal Land - Dirt road to shallow rocky beach able to launch small boat off trailer or by hand. Call Yakama Nation for access 360-280-6073	61	473
BL-YAK-99.4R	E Wapato Road Primitive Boat Launch	46.45813 -120.38441	1561 E Wapato Rd Wapato, WA 98951	Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939	YAK-97.95M YAK-98.15L YAK-99.4L	Primitive boat launch on cobblestone beach, 3 degree grade, Contact Yakama Nation at 360-280-6073 if accessing this boat launch	61	475
BL-YAK-103.05L	Mellis Frontage Rd boat launch	46.49085 -120.43090	300 Mellis Rd Wapato, WA 98951	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740	YAK-102.1R YAK-102.2L YAK-103.1R	Single concrete plank ramp, 9 degree grade. Access road between parking lot and ramp may be flooded during winter months but the area of road that floods is paved and should not be too deep for full size trucks to navigate safely	60	477
BL-YAK-106.3L	Downstream of the Wapato East Spillway	46.52258 -120.47163	1811 Thorp Rd Wapato, WA 98951	Wapato Irrigation District (Bureau of Indian Affairs) Emergency contact 509-877-3155 ext. 3 Yakama Nation Environmental Management Program 509-945-2939	YAK-105.8R	Hand launch small boat only, no ramp	60	479

BL-YAK-107.1L	Century Landing Boat Launch	46.53069 -120.47028	82 Thorp Rd Wapato, WA 98951	Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280	YAK-106.75R	Single concrete plank ramp with a 8.5 degree grade. This boat launch is easily accessible	60	481
BL-YAK-116.7L	Harlan Landing Park	46.63158 -120.52175	41 Rovetto Road Yakima, WA 98901	Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280	NACH-0.1R YAK-114.3L YAK-116.0L YAK-116.8L YAK-117.2R YAK-117.5R YAK-119.1R	Single lane, 8 degree grade. Easy access, park may be busy seasonally	59	483
BL-YAK-129.4L	Roza Recreational Boat Launch	46.76393 -120.45662	8681 Canyon Road Yakima, WA 98901	Bureau of Land Management Wenatchee Office Wenatchee, WA 98801 509-665-2100	YAK-128.05R YAK-129.8L	Paved double ramp with ample parking, vault toilets, fee use area	58	485
BL-YAK-130.6L	Mile Post 8 boat launch	46.77569 -120.45272	70 Roza View Dr Yakima, WA 98901	WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740		Gravel single lane ramp, 8 degree grade	58	487

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APPENDIX 4A
Response Strategy 2-Pagers

RESPONSE STRATEGIES LIST

M-334.0R **	M-334.3M **	M-334.5L **	M-335.0M **	NACH-0.1R
NACH-2.7R	NACH-2.75R	NACH-3.05R	NACH-5.95L	NACH-6.05L
NACH-8.95R	NACH-9.2L	NACH-9.55L	NACH-9.85L	NACH-10.0L
NACH-10.15L	SULFC-0.3	YAK-0.5R **	YAK-2.1L **	YAK-4.2L **
YAK-6.2R	YAK-7.85L	YAK-8.5R	YAK-8.75L	YAK-10.9L
YAK-11.25L	YAK-11.5R	YAK-13.3L	YAK-14.0R	YAK-14.1L
YAK-15.15R	YAK-16.25L	YAK-18.35R	YAK-18.8L	YAK-20.4L
YAK-22.7L	YAK-25.2R	YAK-26.9R	YAK-28.1L	YAK-29.15R
YAK-29.55L	YAK-29.8R	YAK-32.2L	YAK-32.45L	YAK-32.9L
YAK-35.95L	YAK-41.9L	YAK-42.9L	YAK-46.2L	YAK-47.2R
YAK-47.65R	YAK-55.3M	YAK-55.4R	YAK-59.8L	YAK-60.2R
YAK-60.45R	YAK-61.2L	YAK-63.8L	YAK-65.2L	YAK-65.7L
YAK-66.8R	YAK-66.85R	YAK-69.0R	YAK-69.3R	YAK-69.5R

**Strategies from the Middle Columbia River McNary Pool GRP that are included in this appendix

RESPONSE STRATEGIES LIST (continued)

YAK-70.25L	YAK-74.9L	YAK-77.05R	YAK-77.5R	YAK-78.0L
YAK-80.55R	YAK-82.8L	YAK-84.1R	YAK-84.6R	YAK-85.1L
YAK-87.0L	YAK-87.55L	YAK-88.75L	YAK-89.9R	YAK-90.7R
YAK-90.95R	YAK-91.7L	YAK-91.85R	YAK-92.45M	YAK-92.6L
YAK-93.1R	YAK-94.15R	YAK-96.95L	YAK-97.95M	YAK-98.15L
YAK-99.4L	YAK-100.5R	YAK-102.1R	YAK-102.2L	YAK-103.1R
YAK-104.25R	YAK-104.6L	YAK-105.8R	YAK-106.75R	YAK-107.1L
YAK-108.8L	YAK-110.0M	YAK-110.85R	YAK-111.0R	YAK-112.95L
YAK-114.3L	YAK-115.0L	YAK-116.0L	YAK-116.8L	YAK-117.2R
YAK-117.5R	YAK-119.1R	YAK-121.3L	YAK-122.15R	YAK-122.2M
YAK-128.05R	YAK-129.4R	YAK-129.8L	YAK-130.6L	YAKCC-35.8
YAKCC-42.35	YAKCC-45.0	YAKCC-46.15R	YAKMC-82.6	YAKSC-103.0
YAKSC-103.6	YAKTC-121.25	YAKWAP-104.65	YAKWAP-106.2	

**Strategies from the Middle Columbia River McNary Pool GRP that are included in this appendix

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Columbia Park Marina

M-334.0R

Position - Location: 46° 14.347', -119° 13.126' 46° 14' 20.8", -119° 13' 7.5" 46.23911, -119.21876 Richland

Strategy Objective: Exclusion : Keep oil away from southern end of island.

Implementation: Using workboat, deploy 800ft boom at anchor point A (island). Then extend boom to the southeast and secure end near 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 or existing structures to secure boom.

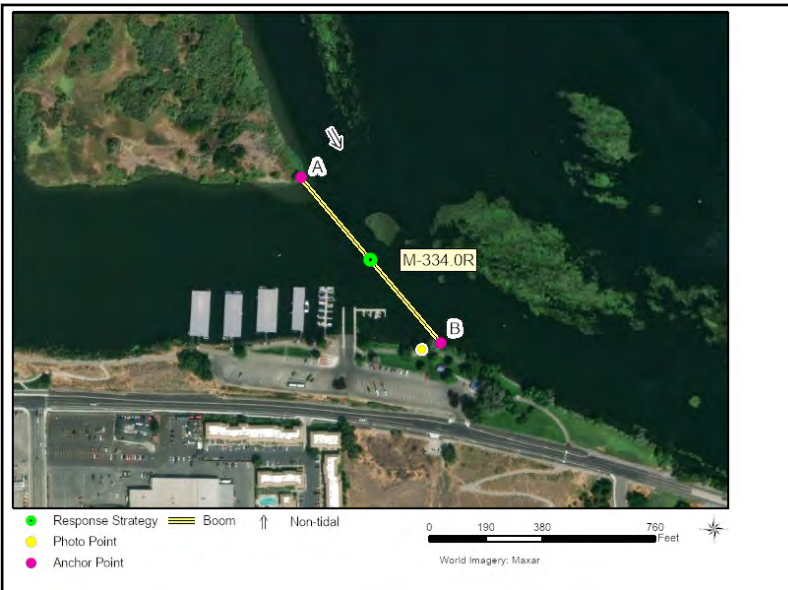
Staging Area: Remote: Stage equipment at SA-M-336.1R Columbia Point Marina Park (660 Columbia Point Dr, Richland, WA 99352).

Site Safety: Slips, Trips, Falls; Snakes; Uneven Surfaces; Vessel Traffic; Water Hazard

Field Notes: USACE manages Bateman Island. Notify Benton County before deployment.

Watercourse: River - Above a Dam - McNary Pool/Lake Wallula

Resources at Risk: Marina, Resident Fish, Salmonids, Sensitive Resources, Waterfowl



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
2 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

Columbia Park Marina

M-334.0R



M-334.0R Photo: From marina, looking towards southeast corner of Bateman Island (anchor point A). Low water conditions (July).

Site Contact

Benton County

Municipality (County/City) : Emergency Services
509-628-8092

USACE

Land/Property Contact : Tri-Rivers Natural Resources Mgmt
509-547-2048

Nearest Address

660 Columbia Point Dr
Richland, WA 99352



Driving Directions

TO STAGING AREA/BOAT LAUNCH at Columbia Point Marina Park (SABL-M-336.4R):

1. Head east on I-82 / US-12 / US-97
2. Take exit 102 on the right to merge onto I-182 E / US-12 E toward Richland / Pasco
3. Take exit 5B on the right to merge onto Geo Washington Way
4. Take the exit on the right to Columbia Point Dr
5. Bear right on Columbia Point Dr
6. Location is on the left

Bateman Island

M-334.3M

Position - Location: 46° 14.587', -119° 13.288' 46° 14' 35.2", -119° 13' 17.3" 46.24311, -119.22146 Richland

Strategy Objective: Exclusion : Keep oil out of side channel within island.

Implementation: Using workboat, deploy 400ft boom at anchor point A. Then extend boom to the southeast and secure end near 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 or existing structures to secure boom.

Staging Area: Remote: Stage equipment at SA-M-336.1R Columbia Point Marina Park (660 Columbia Point Dr, Richland, WA 99352).

Site Safety: Slips, Trips, Falls; Snakes; Uneven Surfaces; Vessel Traffic; Water Hazard

Field Notes: USACE manages Bateman Island. Notify Benton County before deployment.

Watercourse: River - Above a Dam - McNary Pool/Lake Wallula

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



Recommended Equipment

3	Each	Anchoring System(s) - (anchor, lines, floats)
2	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-334.3M Photo: From the river, looking west towards backwater area within the island. Low water conditions (August).

Site Contact

Benton County

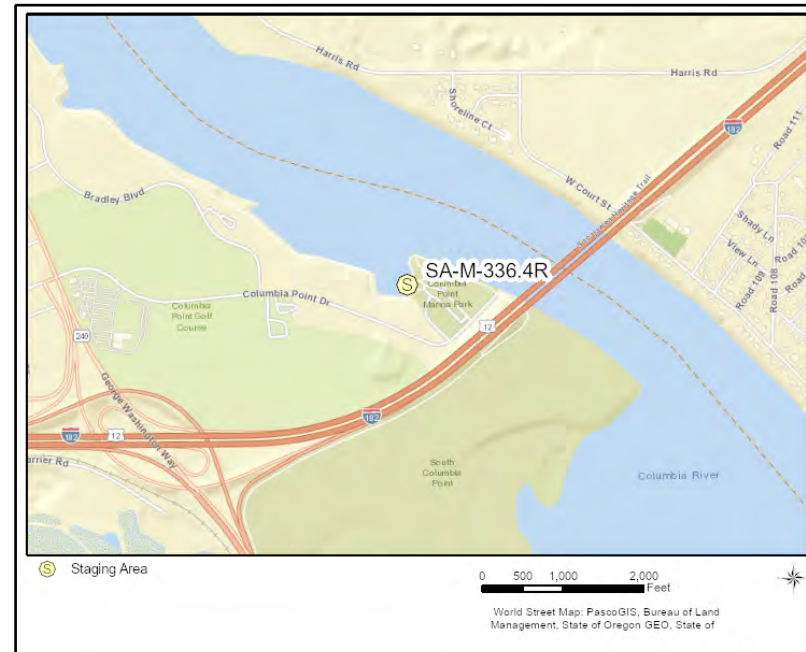
Municipality (County/City) : Emergency Services

Richland, WA 99352

509-628-8092

Nearest Address

660 Columbia Point Dr
Richland, WA 99352



Driving Directions

TO STAGING AREA/BOAT LAUNCH at Columbia Point Marina Park (SABL-M-336.4R):

1. Head east on I-82 / US-12 / US-97
2. Take exit 102 on the right to merge onto I-182 E / US-12 E toward Richland / Pasco
3. Take exit 5B on the right to merge onto Geo Washington Way
4. Take the exit on the right to Columbia Point Dr
5. Bear right on Columbia Point Dr
6. Location is on the left

Chiawana Park (Upriver)

M-334.5L

Position - Location: 46° 14.819', -119° 12.974' 46° 14' 49.2", -119° 12' 58.5" 46.24699, -119.21624 Richland

Strategy Objective: Deflection : Keep oil away from park riverbank.

Implementation: Using workboat, deploy 800ft boom at anchor point A (riverbank). Secure remainder to the south at anchor point B (river channel). 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 equipment at SA-M-336.1R Columbia Point Marina Park (660 Columbia Point Dr, Richland, WA 99352).

Site Safety: Slips, Trips, Falls; Snakes; Uneven Surfaces; Vessel Traffic; Water Hazard

Field Notes: Park is co-managed by the City of Pasco and USACE. Notify Franklin County before deployment.

Watercourse: River - Above a Dam - McNary Pool/Lake Wallula

Resources at Risk: City Park, Resident Fish, Salmonids, Sensitive Resources, Shorebirds, Waterfowl



Recommended Equipment

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

Chiawana Park (Upriver)

M-334.5L



M-334.5L Photo: From the riverbank, looking south/downriver. Low water conditions (August).

Site Contact

City of Pasco

Land/Property Contact : Recreation Services
509-545-3456

Franklin County

Municipality (County/City) : Emergency Management
509-545-3546

Nearest Address

660 Columbia Point Dr
Richland, WA 99352



Driving Directions

TO STAGING AREA/BOAT LAUNCH at Columbia Point Marina Park (SABL-M-336.4R):

1. Head east on I-82 / US-12 / US-97
2. Take exit 102 on the right to merge onto I-182 E / US-12 E toward Richland / Pasco
3. Take exit 5B on the right to merge onto Geo Washington Way
4. Take the exit on the right to Columbia Point Dr
5. Bear right on Columbia Point Dr
6. Location is on the left

Address for oil collection:

2020 Rd 88, Pasco, WA 99301

Bateman Island - North

M-335.0M

Position - Location: 46° 15.074', -119° 13.757' 46° 15' 4.4", -119° 13' 45.4" 46.25123, -119.22929 Richland

Strategy Objective: Deflection : Keep oil away from the eastern side of the island.

Implementation: Using workboat, deploy 900ft boom at anchor point A. Secure remainder in river channel at 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.

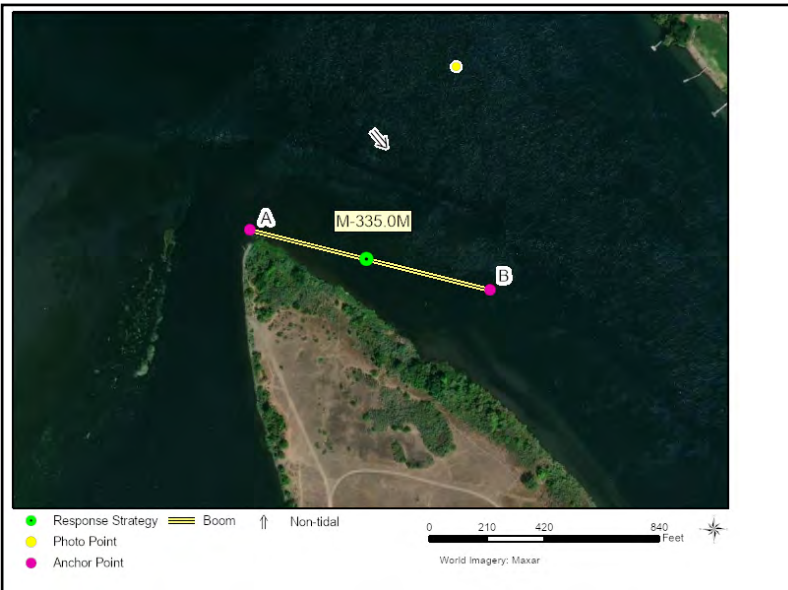
Staging Area: Remote: Stage equipment at SA-M-336.1R Columbia Point Marina Park (660 Columbia Point Dr, Richland, WA 99352).

Site Safety: Slips, Trips, Falls; Snakes; Uneven Surfaces; Vessel Traffic; Water Hazard

Field Notes: USACE manages this public area.

Watercourse: River - Above a Dam - Columbia River (Lake Wallula)

Resources at Risk: Recreational Use Area, Resident Fish, Salmonids, Sensitive Resources, Shorebirds, Waterfowl



Recommended Equipment

8 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
900 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-335.0M Photo: From the Columbia river, looking southwest towards the tip of the island (anchor point A). Yakima River mouth is on the right. Low water conditions (August).

Site Contact

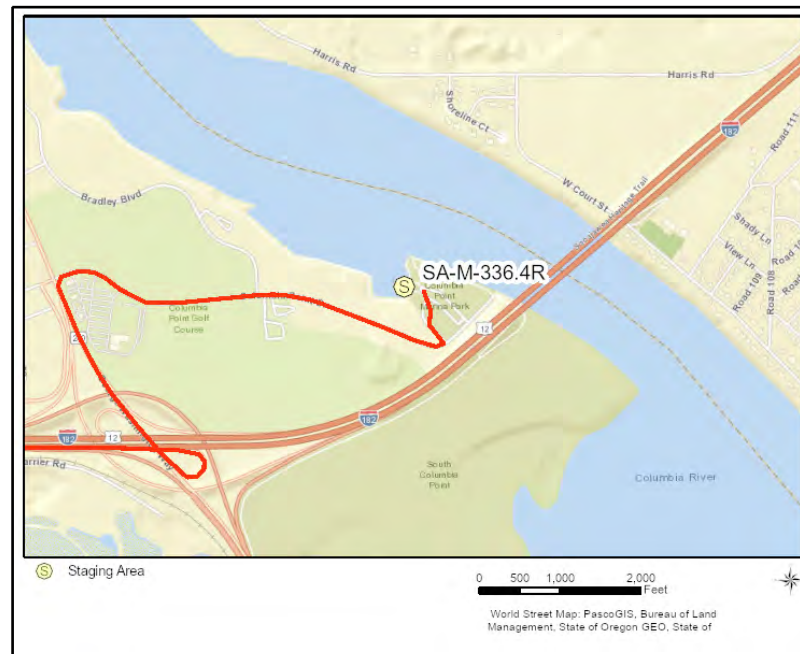
USACE

Land/Property Contact : Tri-Rivers Natural Resources Mgmt

Burbank, WA
509-547-2048

Nearest Address

660 Columbia Point Dr
Richland, WA 99352



Driving Directions

TO STAGING AREA/BOAT LAUNCH at Columbia Point Marina Park (SABL-M-336.4R):

1. Head east on I-82 / US-12 / US-97
2. Take exit 102 on the right to merge onto I-182 E / US-12 E toward Richland / Pasco
3. Take exit 5B on the right to merge onto Geo Washington Way
4. Take the exit on the right to Columbia Point Dr
5. Bear right on Columbia Point Dr
6. Location is on the left

Confluence of the Naches River and Yakima River

NACH-0.1R

Position - Location: 46° 37.809', -120° 30.894' 46° 37' 48.5", -120° 30' 53.6" 46.63015, -120.51490 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Naches River

Implementation: Using workboat, secure end of 600 ft of boom to shore on river left upstream of the bridges, at/near Point A (46.629493, -120.516846). Extend boom to river right, securing it to the bank near the Greenway Trail, at/near Point B (46.630056, -120.514591). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point B.

Staging Area: Onsite : Must drive around barriers to access the Yakima Greenway Trail at 6th and Gordon.

Site Safety: Water Hazard; Pedestrian Traffic on Yakima Greenway Trail; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-116.7L, Harlan Landing Park. Notify the Yakima Greenway Foundation at 509-453-8280 that you are access the trail. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Naches River, 3.6 miles downstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Habitat and Waterfowl, Public Recreation Site/Area, Sensitive Resources



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Confluence of the Naches River and Yakima River

NACH-0.1R



NACH-0.1R Photo: View of anchor point B near the Yakima Greenway Trail

Site Contact

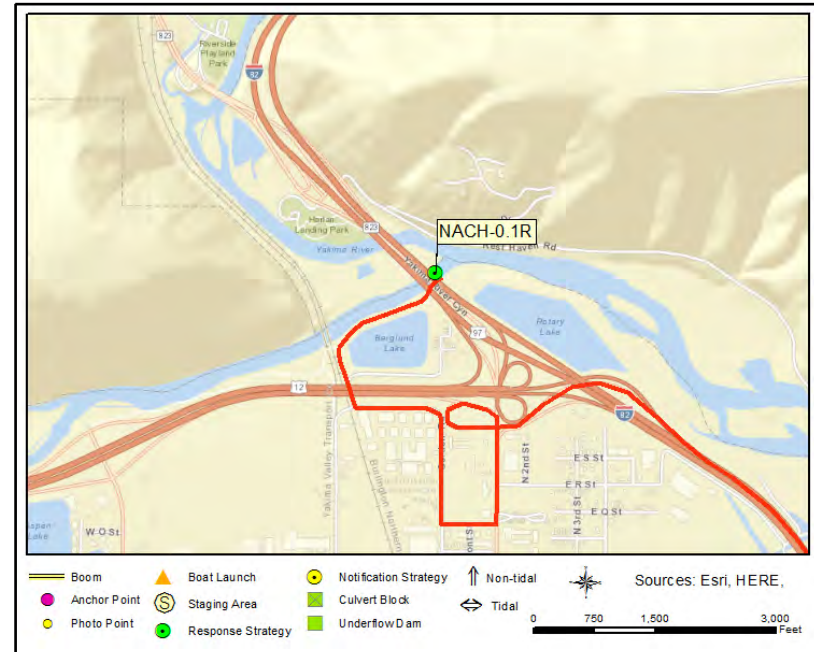
Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

1820 N 6th Ave
Yakima, WA 98902



Driving Directions

1. Head west from West Richland on I-82 W (64.69 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep left on N 1st St (0.71 miles)
4. Turn right on N 1st St (Yakima River Cyn) (0.25 miles)
5. Turn right on Tamarack St (0.13 miles)
6. Turn right on Gordon Rd (0.47 miles)
7. Stop at the intersection of Gordon and N 6th Ave (0.07 miles), drive around the barriers to access the Yakima Greenway Trail headed toward the river
8. Take a right on the trail at the Y intersection, stay left at the next fork and finish at the strategy location on the left (0.4 miles)

Old Union Screen water intake	NACH-2.7R

Old Union Screen water intake	NACH-2.7R

Position - Location:	46° 37.632', -120° 34.013'	46° 37' 37.9", -120° 34' .8"	46.62720, -120.56688	Yakima
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Strategy Objective: Exclusion : Keep oil out of the Old Union Screen water intake on river right

Implementation:	Secure end of 100 ft of boom to bank on river right upstream of canal entrance at/near Point A (46.627245,-120.567038). Using line, extend boom downstream, across canal, securing it to bank at/near Point B (46.627178, -120.566745). Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.
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Staging Area: Onsite : Stage on dirt/gravel drive or field

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes:	Notify Yakima City Water 509-575-6177 if deploying this strategy. Go through gate, cut the chain if needed (not the locks). Naches River has extreme variability in seasonal flow
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Watercourse: River - Below a Dam - Naches River, 1.0 miles downstream of Nelson Dam

Resources at Risk: Bald Eagle, Riparian Habitat, Water Intakes



Boom
 Boat Launch
 Notification Strategy
 Non-tidal
 Source: Esri,

Anchor Point
 Staging Area
 Culvert Block
 Tidal

Photo Point
 Response Strategy
 Underflow Dam

0 30 60 120 Feet

Recommended Equipment

4	Each	Anchoring System(s)- Shoreside
1	Each	Bolt Cutters
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
1	Each	Machete(s) - (or other vegetation cutting tool)

Recommended Personnel	
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2	Laborer
1	Supervisor

Old Union Screen water intake

NACH-2.7R



NACH-2.7R Photo: View of the mouth of the canal that feeds into Old Union Screen water intake.

Site Contact

City of Yakima Water Department

Primary Contact : City Water Intakes & Treatment Plant

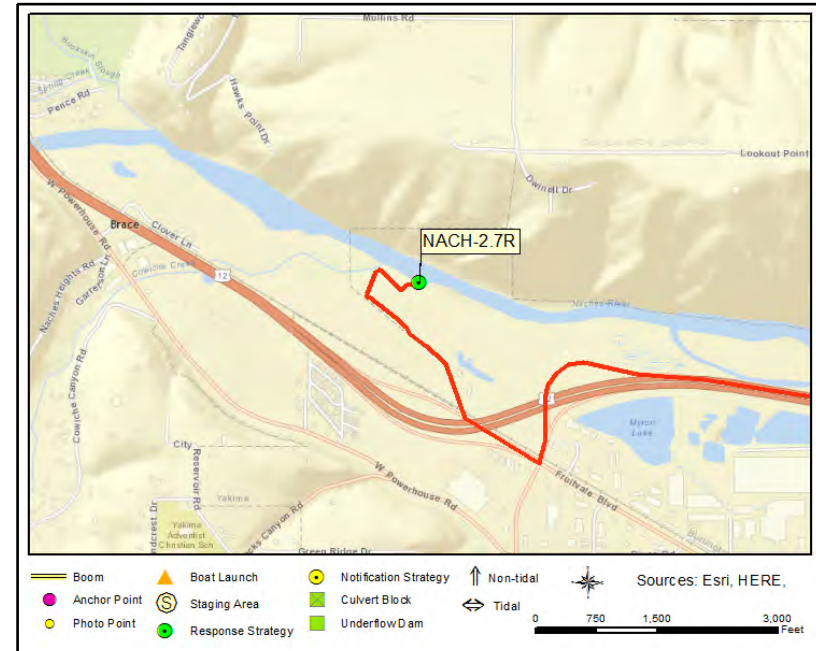
Yakima, WA 98908

509-575-6177

Nearest Address

3922 Fruitvale Blvd

Yakima, WA 98908



Driving Directions

1. Head west from West Richland on I-82 W / US-12 W toward Prosser / Yakima (70.97 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (2.41 miles)
4. Take ramp on the right to N. 40th Ave. / Fruitvale Blvd. (0.58 miles)
5. Turn right on Fruitvale Blvd (0.2 miles)
6. Turn right as soon as you pass Hwy 12 and follow the unnamed road through the gates, and over two bridges along the canal, take a right when you reach the river and then the first left to the site (0.55 miles)

Cowiche Creek water intake

NACH-2.75R

Position - Location: 46° 37.659', -120° 34.144' 46° 37' 39.5", -120° 34' 8.6" 46.62765, -120.56906 Yakima

Strategy Objective: Exclusion : Keep oil from Cowiche Creek out of Yakima River (and water intake) on river right

Implementation: Secure end of 100 ft of boom to downstream side of water intake structure at/near Point A (46.627667, -120.569). Using line, extend boom across to other side of intake structure and secure at/near Point B (46.627758, -120.569232). Extend remaining boom ~20ft across Cowiche Creek using line and secure at/near Point C (46.627758, -120.569232) with an anchor. Back hard boom with sorbent boom in the same manner. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle as needed, based on stream flow and environmental conditions.

Staging Area: Onsite : Stage on gravel drive or field

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Coordinate with Yakima Water Department before implementation; call 509-575-6177. Go through gate, cut the chain if needed (not the locks). Naches River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Naches River, 0.95 miles downstream of Nelson Dam

Resources at Risk: Bald Eagle, Riparian Habitat, Water Intakes



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
3	Each	Anchoring System(s)- Shoreside
1	Each	Bolt Cutters
100	Feet	Boom - B3 (Contractor Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
1	Each	Machete(s) - (or other vegetation cutting tool)

Recommended Personnel

2	Laborer
1	Supervisor

Cowiche Creek water intake

NACH-2.75R



NACH-2.75R Photo: View of Cowiche Creek water intake taken from just downstream

Site Contact

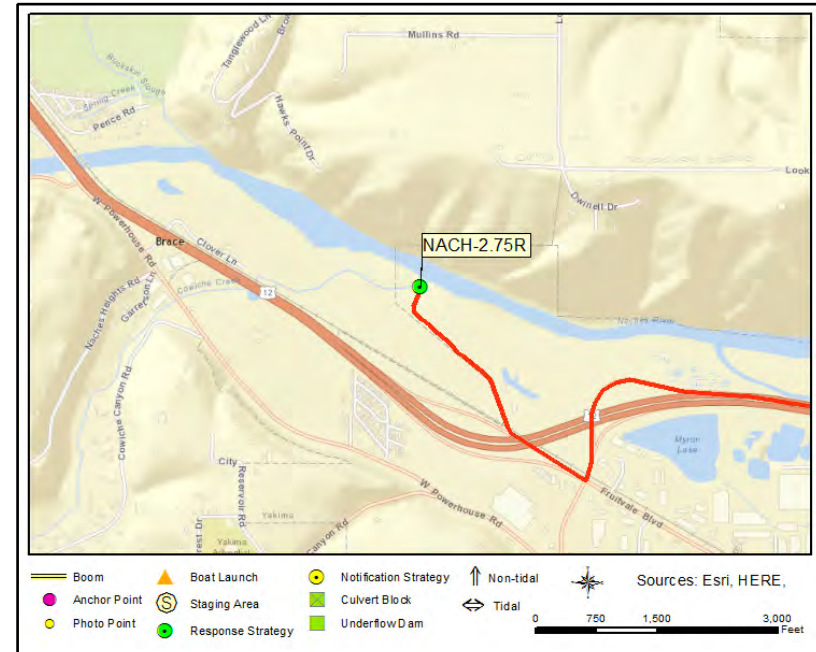
City of Yakima Water Department

Primary Contact : City Water Intakes & Treatment Plant

Yakima, WA 98908
509-575-6177

Nearest Address

3922 Fruitvale Blvd
Yakima, WA 98908



Driving Directions

1. Head west from West Richland on I-82 W / US-12 W toward Prosser / Yakima (70.97 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (2.41 miles)
4. Take ramp on the right to N. 40th Ave. / Fruitvale Blvd. (0.58 miles)
5. Turn right on Fruitvale Blvd (0.2 miles)
6. Turn right as soon as you pass Hwy 12 and follow the unnamed road through the gates, and over two bridges along the canal to the site (0.45 miles) on the left by the river

Fruitvale Canal off Clover Lane

NACH-3.05R

Position - Location: 46° 37.738', -120° 34.436' 46° 37' 44.3", -120° 34' 26.1" 46.62896, -120.57393 Yakima

Strategy Objective: Exclusion : Keep oil away from the Fruitvale Canal water intake on river right.

Implementation: Secure end of 100 ft of boom to bank on river left on the upstream side of the canal at/near Point A (46.628974, -120.57369). Using line, extend boom downstream, across canal, securing it to canal right at/near Point B (46.628849, -120.573611). Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

Staging Area: Onsite : Stage on gravel drive or field

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Notify Yakima City Water at 509-575-6177 if deploying strategy. Go through gate, cut the chain if needed (not the locks). Naches River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Naches River, 0.65 miles downstream of Nelson Dam

Resources at Risk: Bald Eagle, Economic Resource, Water Intakes



Recommended Equipment

4 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)

Recommended Personnel

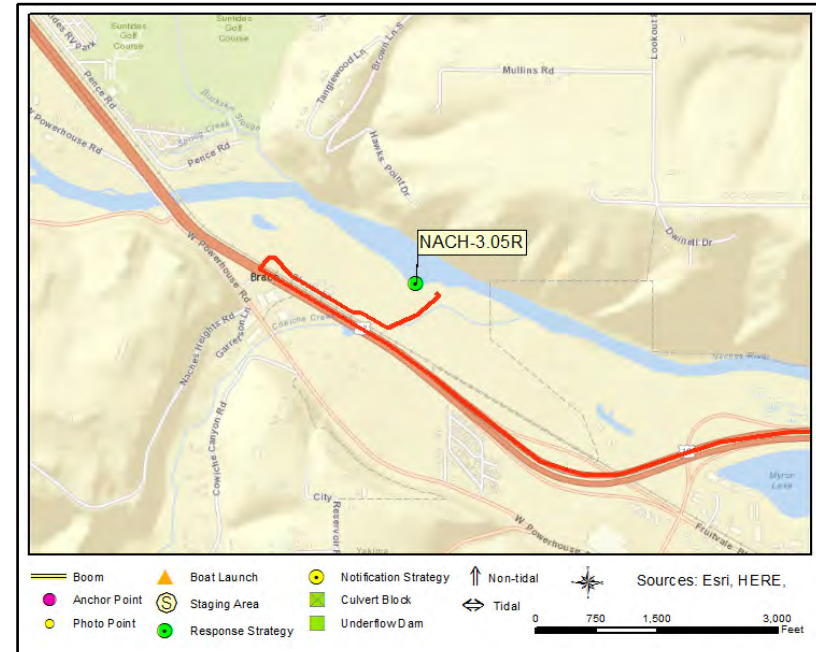
2 Laborer
1 Supervisor

Fruitvale Canal off Clover Lane

NACH-3.05R



NACH-3.05R Photo: View looking into the side channel on river right on the Naches River, at site located off Clover Lane



Site Contact

City of Yakima Water Department

Land/Property Contact : City Water Intakes & Treatment Plant
509-575-6177

City of Yakima Irrigation

Emergency Contact : Responsible for Water Intakes
509-575-6154

Nearest Address

5303 Clover Lane
Yakima, WA 98908

Driving Directions

1. Head west from West Pasco on I-182 E (US-12 E) (1.29 miles)
2. At exit 12AB take ramp on the right to N 20th Ave / US-395 S toward Columbia Basin College / Kennewick / Pendleton (0.19 miles)
3. At exit 12B keep left on N 20th Ave toward Columbia Basin College (0.46 miles)
4. At exit 12B keep right on N 20th Ave toward Columbia Basin College (0.23 miles)
5. Turn left on N 20th Ave (0.12 miles)
6. Turn left onto ramp and go on I-182 W toward Richland (12.3 miles)
7. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (70.97 miles)
8. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
9. At fork keep right on US-12 W toward Naches / White Pass (3.95 miles)
10. Make sharp right on Clover Ln (0.18 miles), go through the gate (cut the city lock if needed) and bear left (0.3 miles) until you cross the canal then park on the left.
11. Finish at 5303 Clover Lane, 98908, on the left

Long Lane at Dike

NACH-5.95L

Position - Location: 46° 39.052', -120° 37.054' 46° 39' 3.1", -120° 37' 3.3" 46.65086, -120.61757 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Naches River

Implementation: Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point B (46.651218, -120.618623). Extend boom downstream and across to river left, securing it to bank at/near Point A (46.650919, -120.617518); use hand or power winch to tighten. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Small vac-truck or skimmer/storage collection at Point A.

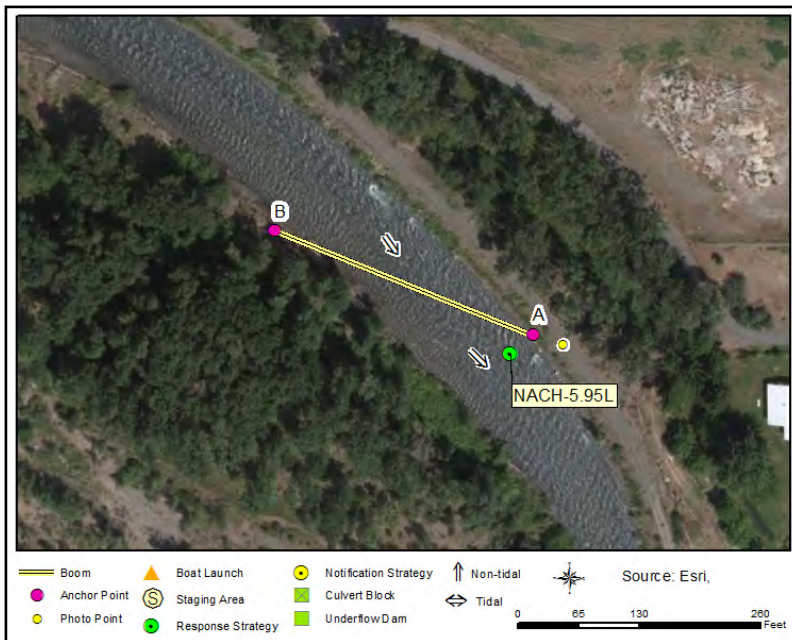
Staging Area: Onsite : Go through locked gate, room for parking in field or on the dike road which is accessible by a small vac truck

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BOR 509-406-3031 about accessing the dike road. Cut the lock on the gate to access the dike road, should be fine for a small vac truck. Naches River has extreme variability in seasonal flow

Watercourse: River - Above a Dam - Naches River, 2.25 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Riparian Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
300 Feet	Boom - B3 (River Boom) or equivalent
400 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Long Lane at Dike

NACH-5.95L



NACH-5.95L Photo: View upstream from the dike road next to Long Lane

Site Contact

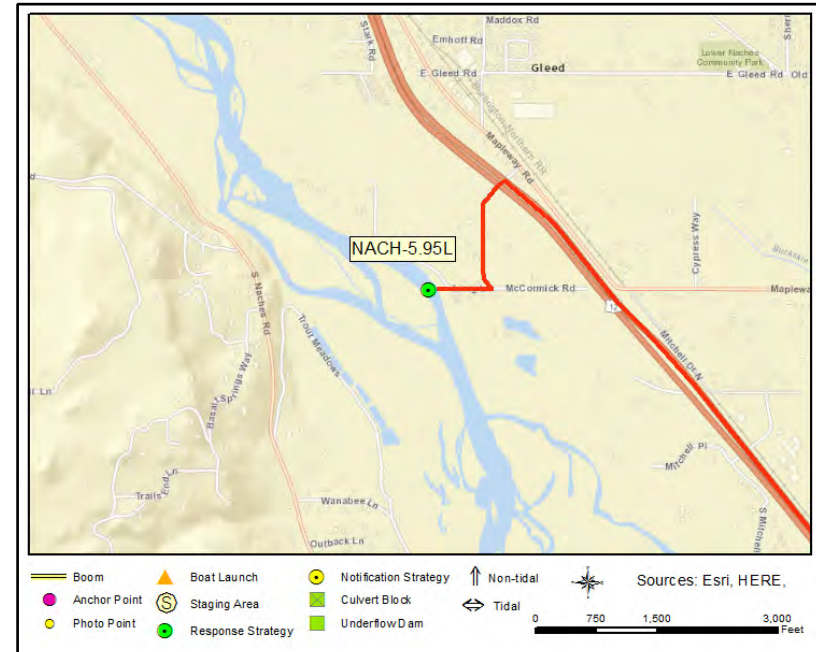
US Bureau of Reclamation

Primary Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

60 Long Lane
Yakima, WA 98908



Driving Directions

1. Head west from West Richland on WA-224 (W Van Giesen St) toward S 39th Ave (8.38 miles)
2. Turn left at 1st St to stay on WA-224 (1st St) (0.03 miles)
3. Turn right onto ramp and go on I-82 W (64.69 miles)
4. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
5. At fork keep right on US-12 W toward Naches / White Pass (6.29 miles)
6. Turn left on McCormick Rd (0.28 miles)
7. Make sharp right on Long Ln (0.07 miles)
8. Finish at 60 Long Lane, 98908, there will be a gate on the left where the road curves. Cut the lock to open then gate and drive through to the dike road.

Long Lane Water Intake

NACH-6.05L

Position - Location: 46° 39.149', -120° 37.258' 46° 39' 9.0", -120° 37' 15.5" 46.65249, -120.62096 Yakima

Strategy Objective: Exclusion : Keep oil out of water intake on river left

Implementation: Secure end of 100 ft of boom to bank on river left immediately upstream of canal entrance at/near Point A (46.652513, -20.620803). Using line, extend boom across canal to opposite side, securing it at/near Point B. Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of shoreside anchors as needed, based on stream flow and environmental conditions.

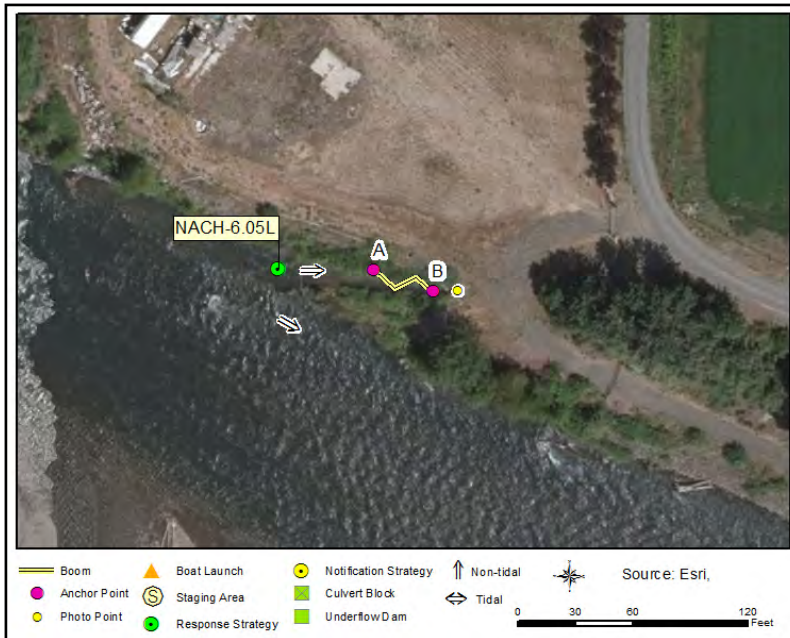
Staging Area: Onsite : Can stage on the side of the road, or if you get in the gate there is a field with room for staging

Site Safety: Water Hazard; Heavy Vegetation; Slips, Trips, Falls

Field Notes: Contact US Bureau of Reclamation at 509-406-3031 for access. Water intake is at the end of the dike road but accessible from Long Lane through a locked gate. Naches River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Naches River, 2.35 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Water Intakes



Recommended Equipment

4 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)

Recommended Personnel

2 Laborer
1 Supervisor

Long Lane Water Intake

NACH-6.05L



NACH-6.05L Photo: View of the water intake off Long Lane

Site Contact

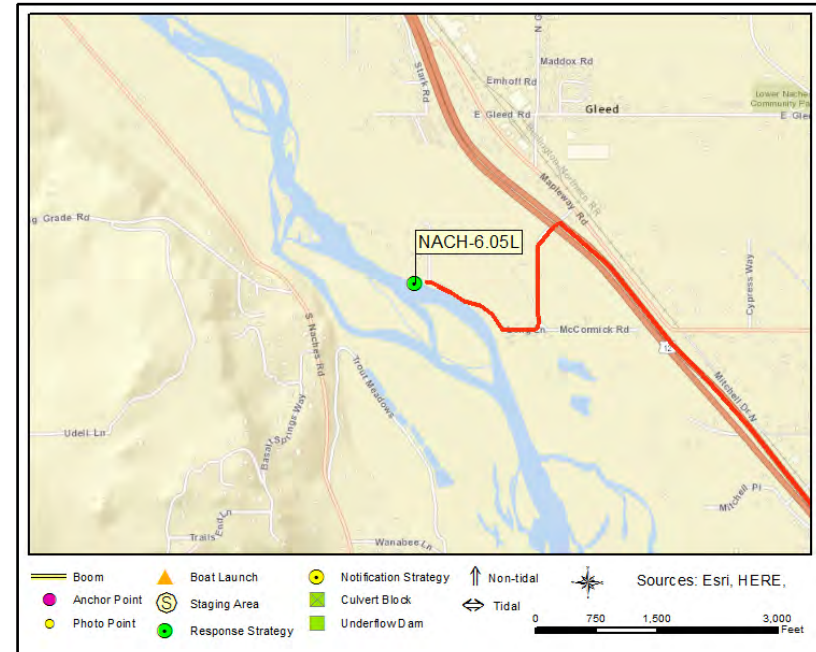
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

60 Long Lane
Yakima, WA 98908



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (6.29 miles)
4. Turn left on McCormick Rd (0.28 miles)
5. Make sharp right onto Long Ln (0.07 miles)
6. Finish .25 miles pas 60 Long Lane, 98908, on the left, there is a gate located just as the road makes a 90 degree turn to the right

Eschbach Park and Congdon Screens

NACH-8.95R

Position - Location: 46° 41.011', -120° 39.232' 46° 41' .7", -120° 39' 13.9" 46.68352, -120.65387 Naches

Strategy Objective: Exclusion : Keep oil out of inlet to Congdon Screens adjacent to Eschbach Park on river right

Implementation: Secure end of 100 ft of boom to bank on river right, upstream of entrance to channel that leads to Congdon water intakes and Eschbach Park, at/near Point A (46.683522, -120.654017). Extend boom downstream, across to opposite side of channel, securing it at/near Point B (46.683327, -120.653814). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of shoreside anchoring systems as needed, based on stream flow and environmental conditions.

Staging Area: Onsite : Cut chain (not locks) to drive to gravel/dirt field near water intake by river's edge. Bathrooms at Eschbachs Park

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Coordinate with US Bureau of Reclamation before accessing property; call 509-406-3031. Naches River has extreme variability in seasonal flow

Watercourse: River - Above a Dam - Naches River, 5.25 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Public Recreation Site/Area, Sensitive Resources, Water Intakes, Wildlife Refuge



Recommended Equipment

2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Line throwing gun(s) or device(s)
1	Each	Machete(s) - (or other vegetation cutting tool)

Recommended Personnel

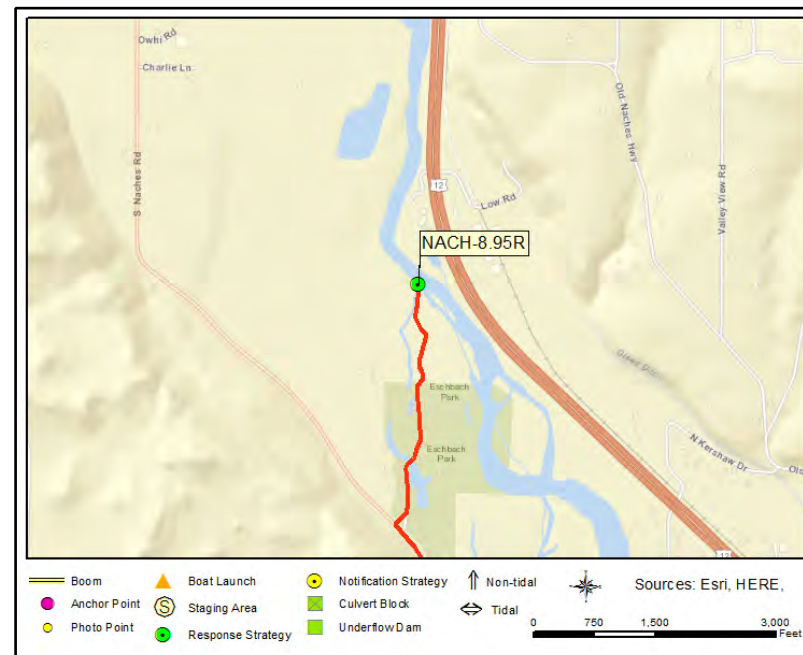
2	Laborer
1	Supervisor

Eschbach Park and Congdon Screens

NACH-8.95R



NACH-8.95R Photo: View of the inlet to the Congdon water intake and fish screen taken from midriver



Site Contact

US Bureau of Reclamation

Land/Property Owner : Yakima Field Office Manager
509-406-3031

Yakima County Parks

Land/Property Contact : Manages Eschbach Park and other county parks
509-574-2952

Nearest Address

4700 S Naches Rd
Naches, WA 98937

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (3.95 miles)
4. Turn left on Ackley Rd (0.07 miles)
5. Turn right on W Powerhouse Rd (0.24 miles)
6. Turn left on S Naches Rd (4.88 miles)
7. Turn right on Eschbach Park Rd, first right past 4700 S Naches Rd, 98937, then take the dirt drive over the bridge to the right and follow it back along the canal to the river (0.5 miles)

City of Yakima Wastewater Treatment Plant

NACH-9.2L

Position - Location: 46° 41.215', -120° 39.272' 46° 41' 12.9", -120° 39' 16.3" 46.68691, -120.65454 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.687694, -120.654529). Extend boom downstream and across to river left, securing remainder at/near Point B (46.686834, -120.654483). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Small vac-truck or skimmer/storage collection at Point B.

Staging Area: Onsite : Park in WDFW parking area, room for staging, but call City of Yakima Water to get inside fence to access dike road

Site Safety: Water Hazard; Slips, Trips, Falls

Field Notes: Coordinate with City of Yakima for access to inside fenced area of Dike Rd; call 509-575-6177. Naches River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Naches River, 5.5 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, General Fish and Wildlife Resources, Riparian Habitat



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
300 Feet	Line - 3/8" poly line
1 Each	Vac Truck or Skimmer and Storage
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor



NACH-9.2L Photo: View looking upstream from the dike road just upstream of the City of Yakima Wastewater Treatment Plant, site of NACH 9.2L

Site Contact

City of Yakima Water Department

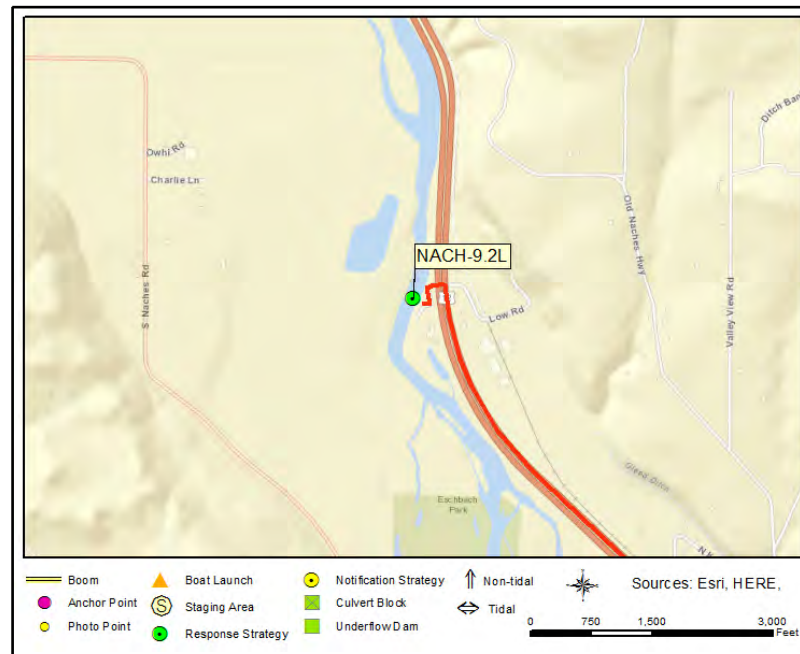
Land/Property Contact : City Water Intakes & Treatment Plant
509-575-6177

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site
509-575-2740

Nearest Address

6390 US Highway 12
Yakima, WA 98908



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.26 miles)
4. Make left turn at Low Rd (0.13 miles)
5. Turning into the WDFW parking area which is directly across from Low Rd, next door to the City of Yakima Wastewater Treatment Plant at 6390 US Highway 12, 98908, on the right

Gleed Screens and Water Intake

NACH-9.55L

Position - Location: 46° 41.498', -120° 39.209' 46° 41' 29.9", -120° 39' 12.6" 46.69164, -120.65349 Naches

Strategy Objective: Collection : Collect oil moving downstream on the Naches River, immediately upstream of the Gleed Screens on river left

Implementation: Secure mid-point of 100 ft of boom to bank on east side of small channel (channel left) at/near Point A (46.691627, -120.653464). Using line, extend boom upstream ~45 ft and across to channel right; secure end to bank at/near Point B. From Point A, extend remaining boom downstream and across to channel right. Secure end at/near Point C. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angles and anchors as needed, based on stream flow and conditions. Vac-truck or skimmer/storage collection at Point A.

Staging Area: Onsite : Gravel area inside locked gate with ~1155 sq ft of available space for parking

Site Safety: Water Hazard; Slips, Trips, Falls; located off of busy highway

Field Notes: Coordinate with the US Bureau of Reclamation for access 509-406-3031. Naches River has extreme variability in seasonal flow

Watercourse: River - Above a Dam - Naches River, 5.85 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Fish Screens, Water Intakes



Recommended Equipment

3 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
100 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)
1 Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2 Laborer
1 Supervisor

Gleed Screens and Water Intake

NACH-9.55L



NACH-9.55L Photo: Looking down at the drive and shoreline at NACH-9.55L

Site Contact

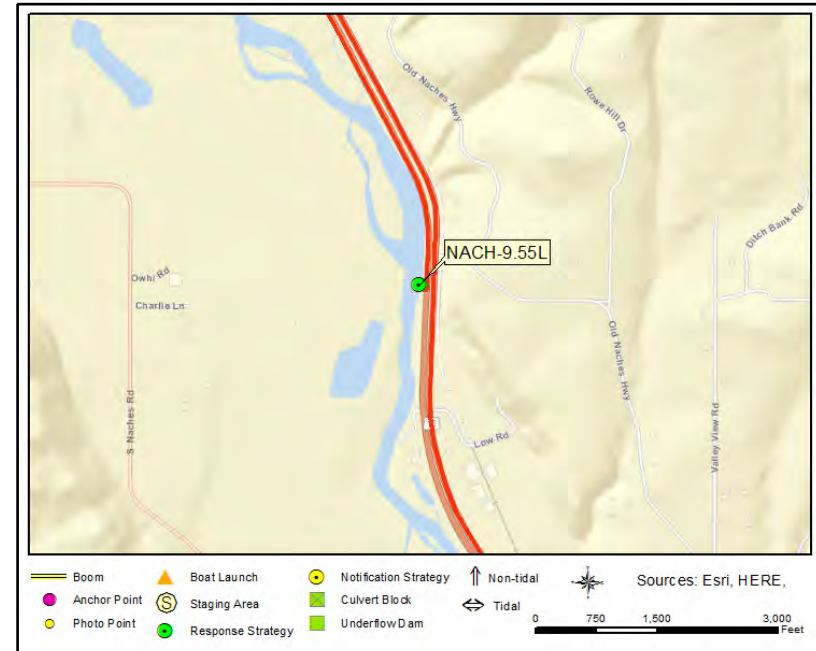
US Bureau of Reclamation

Primary Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

6630 US-12
Naches, WA 98937



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (10.43 miles)
4. Make U-turn and go back on US-12 E (US Highway 12) (0.92 miles)
5. Finish at 6630 US-12, 98937, on the right

Yakima City Water Intake

NACH-9.85L

Position - Location: 46° 41.728', -120° 39.248' 46° 41' 43.7", -120° 39' 14.9" 46.69547, -120.65414 Naches

Strategy Objective: Collection : Collect oil entering Yakima River from ditch under highway on river left

Implementation: Secure 200 ft of boom to bank on canal left at/near Point A (46.695534, -120.65423). Using line, extend boom downstream ~45 ft and across to concrete structure on opposite side; secure boom mid-point at/near Point B. Extend remaining boom downstream and across to channel left, securing end at/near Point C (46.695307, -120.654036). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle as needed, based on stream flow and environmental conditions. Use vac-truck or skimmer/storage to collect oil at Point A.

Staging Area: Onsite : Stage in gated gravel parking area

Site Safety: Water Hazard; Slips, Trips, Falls; busy hwy nearby

Field Notes: Coordinate with City of Yakima Water Department 509-575-6177 for access. Naches River has extreme variability in seasonal flow

Watercourse: River - Above a Dam - Naches River, 6.15 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Water Intakes



Recommended Equipment

3 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
200 Feet	Boom - B3 (River Boom) or equivalent
200 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Winch - Come-A-Long

Recommended Personnel

2 Laborer
1 Supervisor

Yakima City Water Intake

NACH-9.85L



NACH-9.85L Photo: View from downstream next to the Yakima City Water intake, looking back upstream

Site Contact

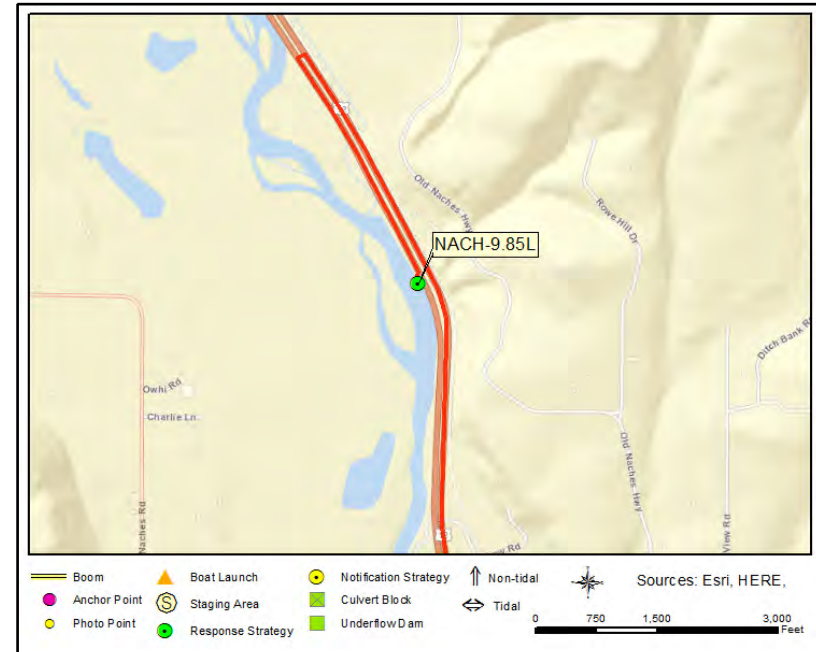
City of Yakima Water Department

Primary Contact : City Water Intakes & Treatment Plant

Yakima, WA 98908
509-575-6177

Nearest Address

7055 US-12
Naches, WA 98937



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Do a u-turn and go back (0.5 miles) Finish at 7055 US-12, 98937, on the right

Water Intake/Fish Screen City of Yakima

NACH-10.0L

Position - Location:	46° 41.863', -120° 39.355'	46° 41' 51.8", -120° 39' 21.3"	46.69772, -120.65592	Naches
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Strategy Objective: Exclusion : Keep oil out of water intake and fish screen

Implementation:	Secure end of 100 ft boom to river left at/near Point A (46.697768, -120.655964), immediately upstream of fish screen. Extend boom downstream and secure along bank at/near Point B (46.697531, -120.655870). Use line, or anchor, to secure boom at Point C (immediately below observation deck). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.
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Staging Area: Onsite : Park at pull off along US Hwy-12, pull off is short and narrow (50'x10'), only room for two vehicles

Site Safety: Water Hazard; Slips, Trips, Falls; Busy Highway with Roadside Parking

Field Notes: Notify City of Yakima Water Department 509-575-6177 for access. Naches River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Naches River, 6.3 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Fish Screens, Water Intakes



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
1	Each	Bolt Cutters
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line

Recommended Personnel

2	Laborer
1	Supervisor



NACH-10.0L Photo: Downstream view from the observation platform on the City of Yakima Water Intake gate facility

Site Contact

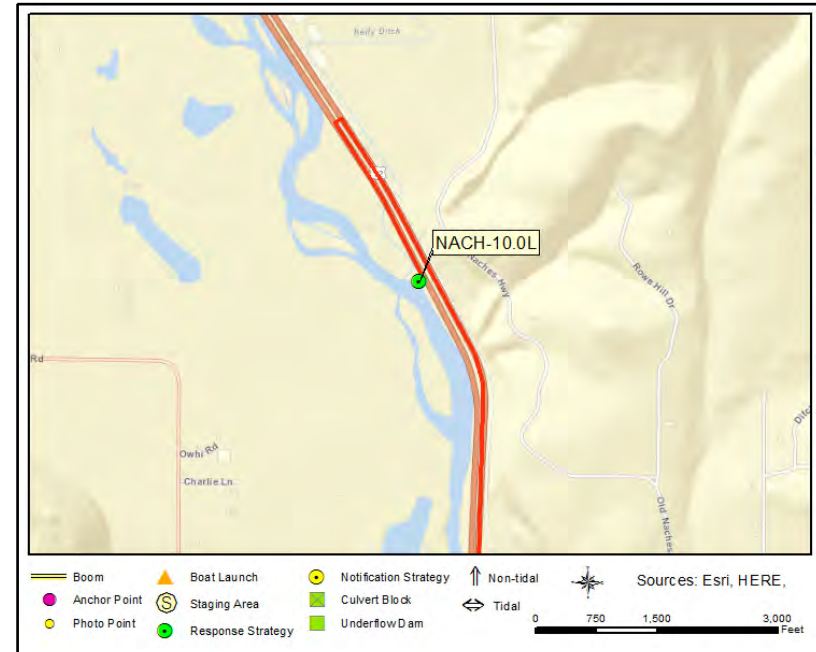
City of Yakima Water Department

Primary Contact : City Water Intakes & Treatment Plant

Yakima, WA 98908
509-575-6177

Nearest Address

7055 US-12
Naches, WA 98937



Driving Directions

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (72.62 miles)
5. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
6. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
7. Do a u-turn and go back (0.5 miles) Finish at 7055 US-12, 98937, on the right

Side Channel Inlet to City of Yakima Water Intake

NACH-10.15L

Position - Location:	46° 41.980', -120° 39.536'	46° 41' 58.8", -120° 39' 32.2"	46.69967, -120.65894	Naches
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Strategy Objective: Exclusion : Keep oil out of entrance to side channel on river left

Implementation: Using workboat, secure end of 100 ft of boom to the bank on river left, upstream of channel, at/near Point A (46.699777, -120.658797). Extend boom downstream, across channel, and secure at/near Point B (46.699506, -120.658636). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

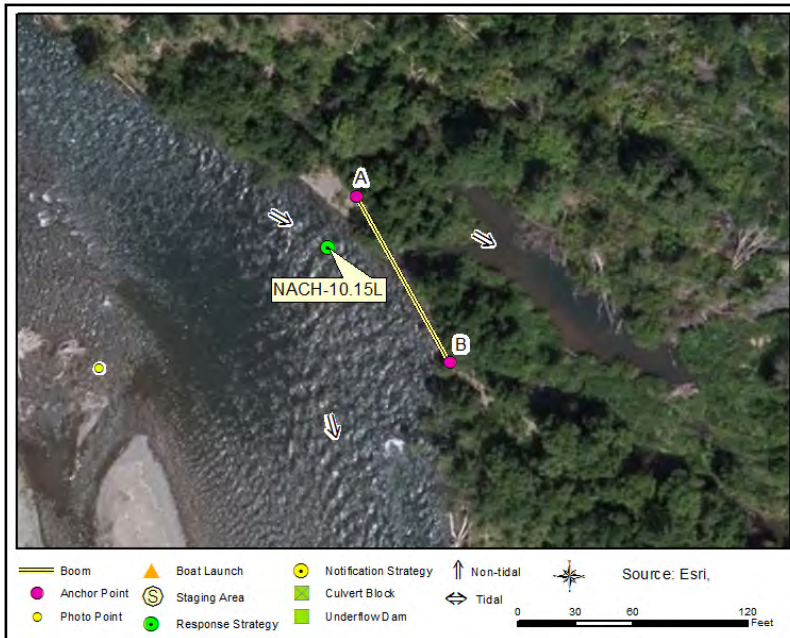
Staging Area: Remote : Stage at SA-NACH-10.5L

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch at BL-NACH-10.5L. If unable to get back upstream, take out downstream at the City of Yakima water intake NACH-10.0L or the next water intake NACH-9.55L. Naches River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Naches River, 6.45 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Riparian Habitat, Water Intakes



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - (hand-launch)

Recommended Personnel

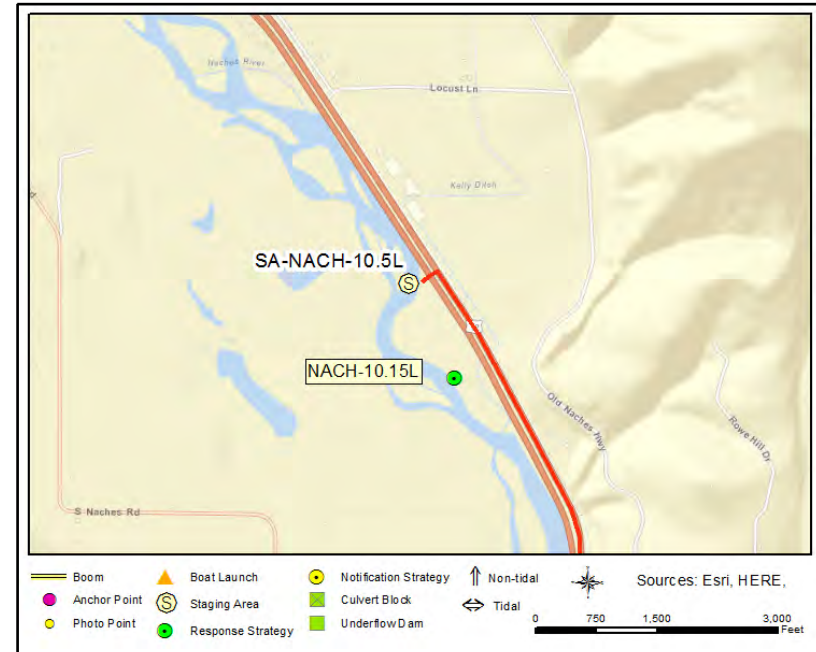
1	Boat Operator
2	Laborer
1	Supervisor

Side Channel Inlet to City of Yakima Water Intake

NACH-10.15L



NACH-10.15L Photo: View of the mouth of the inlet where NACH-10.15L is to be deployed



Site Contact

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

7458 US-12
Naches, WA 98937

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-NACH10.5L/BL-NACH-10.5L) Side Channel Inlet to City of Yakima Water Intake

1. Head west from Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (72.62 miles)
5. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
6. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
7. Finish at 7458 US-12, 98937, on the left

Sulfur Creek

SULFC-0.3

Position - Location: 46° 14.660', -120° 1.199' 46° 14' 39.6", -120° 1' 12.0" 46.24433, -120.01999 Mabton

Strategy Objective: Collection : Collect oil moving downstream on Sulfur Creek

Implementation: Secure end of 100 ft of boom to bank on NW side of McGee Rd Bridge over canal at/near Point A (46.24409, -120.020223; upstream side of bridge, canal right). Using line, walk boom across the canal and extend downstream, pull tight, and secure to shore on canal right at/near Point B. Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents for collection. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection at point B.

Staging Area: Onsite : Additional parking is available at Sunnyside State Wildlife Recreation Area to the southwest of strategy location

Site Safety: Water Hazard; Dangerous Wildlife/Snakes; Slips, Trips and Falls; Heavy Vegetation

Field Notes: Parking for vac truck on the NE side of the bridge. Sulfur Creek has little variability in seasonal flow.

Watercourse: Ditch - Sulfur Creek, 0.3 miles from its confluence with the Yakima River

Resources at Risk: State Protected Area/Lands



Recommended Equipment

2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2	Laborer
1	Supervisor



SULFC-0.3 Photo: View of the bridge and location of anchor point A taken from anchor point B on canal right

Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

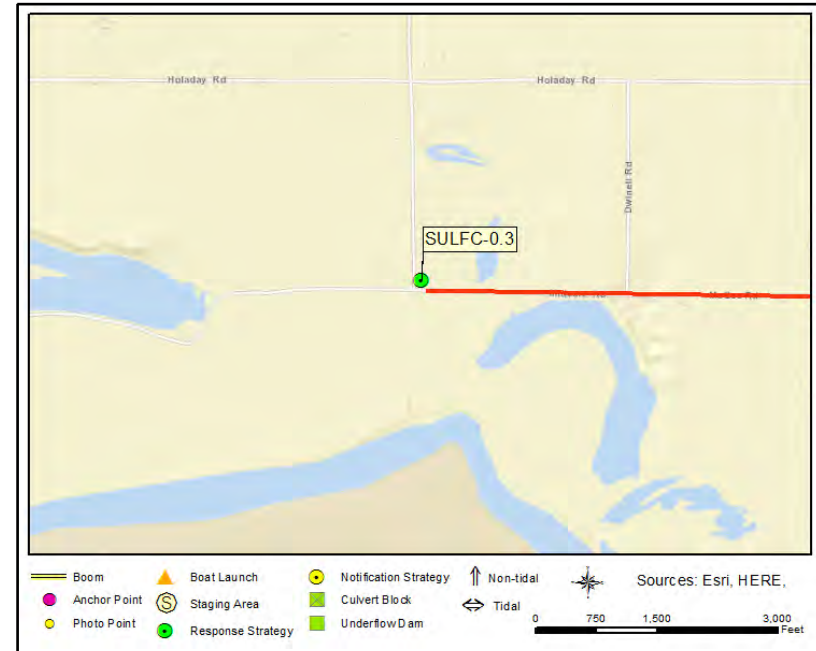
Toppenish, WA 98948

509-945-2939

Nearest Address

1080 McGee Rd

Mabton, WA 98935



Driving Directions

1. Head west from West Richland on I-82
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (31.32 miles)
5. At exit 73 take ramp on the right toward Stover Rd. (0.5 miles)
6. Make sharp left on W Wine Country Rd (Yakima Valley Hwy) (0.25 miles)
7. Make sharp right (0.06 miles)
8. Turn right on Stover Rd (3.85 miles)
9. Turn left on Mabton-Sunnyside Rd (WA-241) (2.01 miles)
10. Turn right on McGee Rd (0.49 miles)
11. Go past 1080 McGee Rd, 98935, on the left until you reach the strategy location at the bridge over Sulfur Creek (0.1 miles)

Riverview Natural Preserve

YAK-2.1L

Position - Location: 46° 15.245', -119° 15.419' 46° 15' 14.7", -119° 15' 25.1" 46.25409, -119.25698 Richland

Strategy Objective: Collection : Collect oil moving downriver.

Implementation: Using workboat, deploy 800ft boom at anchor point A. Then extend 700ft to the northeast and secure end near anchor point B. Finally place 100ft along riverbank near anchor point C. 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 equipment at SA-M-336.1R Columbia Point Marina Park (660 Columbia Point Dr, Richland, WA 99352).

Site Safety: Slips, Trips, Falls; Snakes; Uneven Surfaces; Vessel Traffic; Water Hazard

Field Notes: Work with the City of Richland to obtain access for a vac truck.

Watercourse: River - Yakima River

Resources at Risk: City Park, Resident Fish, Salmonids, Sensitive Resources, Shellfish, Shorebirds, Waterfowl



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
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



YAK-2.1L Photo: From the riverbank, looking west/upriver towards anchor point A. Low water conditions (July).

Site Contact

City of Richland

Land/Property Contact : Parks & Public Facilities
505 Amon Park Dr
Richland, WA 99352
509-942-7664

Nearest Address

660 Columbia Point Dr
Richland, WA 99352



Driving Directions

TO STAGING AREA/BOAT LAUNCH at Columbia Point Marina Park (SABL-M-336.4R):

1. Head east on I-82 / US-12 / US-97
2. Take exit 102 on the right to merge onto I-182 E / US-12 E toward Richland / Pasco
3. Take exit 5B on the right to merge onto Geo Washington Way
4. Take the exit on the right to Columbia Point Dr
5. Bear right on Columbia Point Dr
6. Location is on the left

Chamna Natural Preserve

YAK-4.2L

Position - Location: 46° 15.430', -119° 17.318' 46° 15' 25.8", -119° 17' 19.1" 46.25717, -119.28863 Richland

Strategy Objective: Collection : Collect oil moving downriver.

Implementation: Using workboat, deploy 700ft boom at anchor point A. Then extend 600ft to the southeast and secure end near anchor point B. Finally place 100ft along riverbank near anchor point C. 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 equipment at SA-M-336.1R Columbia Point Marina Park (660 Columbia Point Dr, Richland, WA 99352).

Site Safety: Slips, Trips, Falls; Snakes; Uneven Surfaces; Vessel Traffic; Water Hazard

Field Notes: This area is part of the Tapteal Water Trail. Work with the City of Richland to obtain access for a vac truck.

Watercourse: River - Yakima River

Resources at Risk: City Park, Resident Fish, Salmonids, Sensitive Resources, Shorebirds, Waterfowl



Recommended Equipment

4 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
700 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



YAK-4.2L Photo: From collection point, looking northwest/upriver towards anchor point A. Low water conditions (July).

Site Contact

City of Richland

Land/Property Contact : Parks & Public Facilities
505 Amon Park Dr
Richland, WA 99352
509-942-7664

Nearest Address

660 Columbia Point Dr
Richland, WA 99352



Driving Directions

TO STAGING AREA/BOAT LAUNCH at Columbia Point Marina Park (SABL-M-336.4R):

1. Head east on I-82 / US-12 / US-97
2. Take exit 102 on the right to merge onto I-182 E / US-12 E toward Richland / Pasco
3. Take exit 5B on the right to merge onto Geo Washington Way
4. Take the exit on the right to Columbia Point Dr
5. Bear right on Columbia Point Dr
6. Location is on the left

Southern End of Riverside Drive

YAK-6.2R

Position - Location: 46° 16.339', -119° 18.946' 46° 16' 20.4", -119° 18' 56.8" 46.27232, -119.31577 Richland

Strategy Objective: Exclusion : Keep oil out of backwater habitat area on river right

Implementation: Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.272404, -119.31596). Extend boom downstream, across the side channel, securing it on river right at/near Point B (46.272152, -119.315773). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

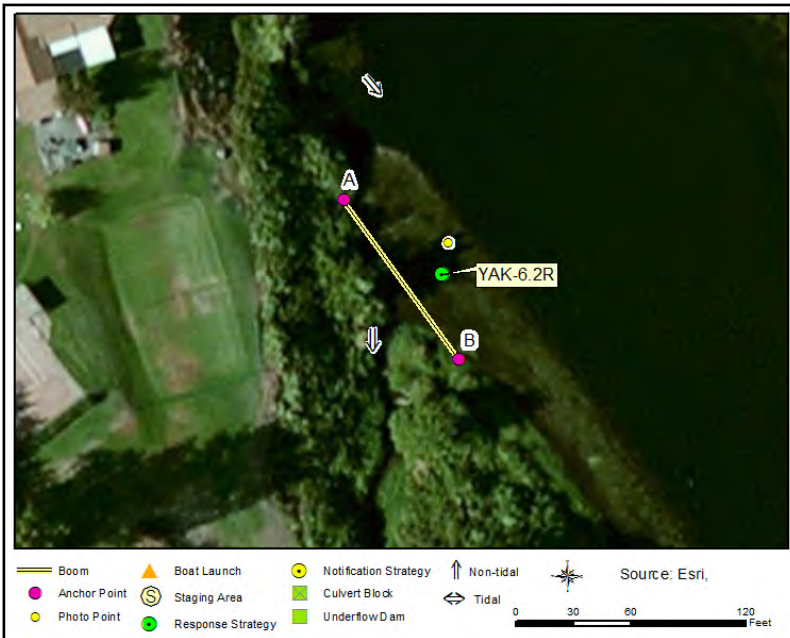
Staging Area: Remote : Stage at SA-YAK-8.75L, Hyde Road Boat Launch

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 11.8 miles downstream of the Wanawish Diversion Dam

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



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Southern End of Riverside Drive

YAK-6.2R



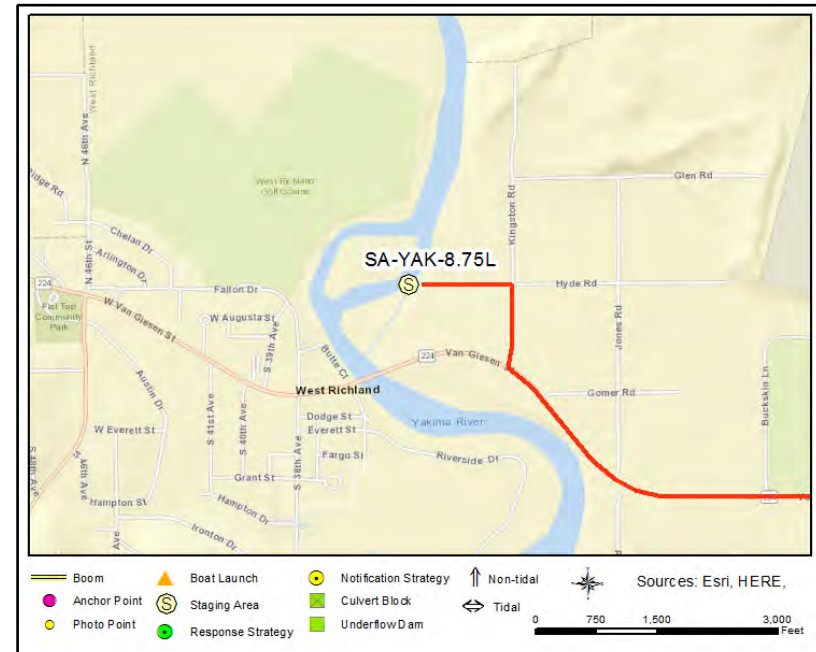
YAK-6.2R Photo: Mouth of the side channel at the southern end of Riverside Dr

Site Contact

No Information
Not Determined :

Nearest Address

3100 Hyde Road
Richland, WA 99354



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354

Van Giesen St at Jones Road

YAK-7.85L

Position - Location: 46° 17.660', -119° 19.384' 46° 17' 39.6", -119° 19' 23.0" 46.29433, -119.32306 Richland

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 400 ft of boom to river left at/near Point A (46.29474, -119.23412,). Extend boom downstream, securing mid-channel, at/near Point B (46.29437, -119.32323). Then extend remaining boom downstream, securing it at/near Point C (46.29406, -119.32293). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions Use vac truck or skimmer/storage to collect oil at/near Point C.

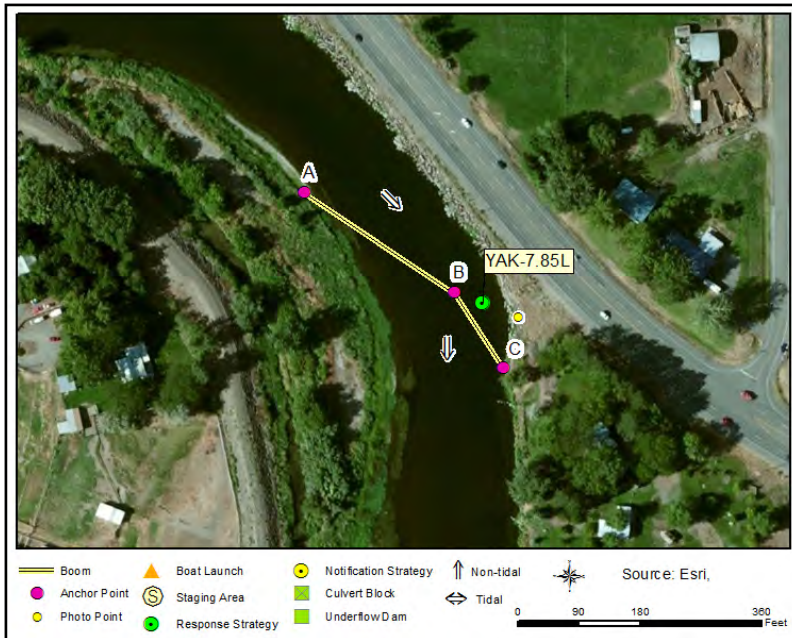
Staging Area: Onsite : Staging area has 3400 sq ft dirt/gravel parking off road

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch upstream at BL-YAK-8.75L, Hyde Road Boat Launch.Follow WSDOT guidelines for work zone traffic control if you need to stage vac truck on roadside. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 10.15 miles downstream of the Wanawish Diversion Dam

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



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
400 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

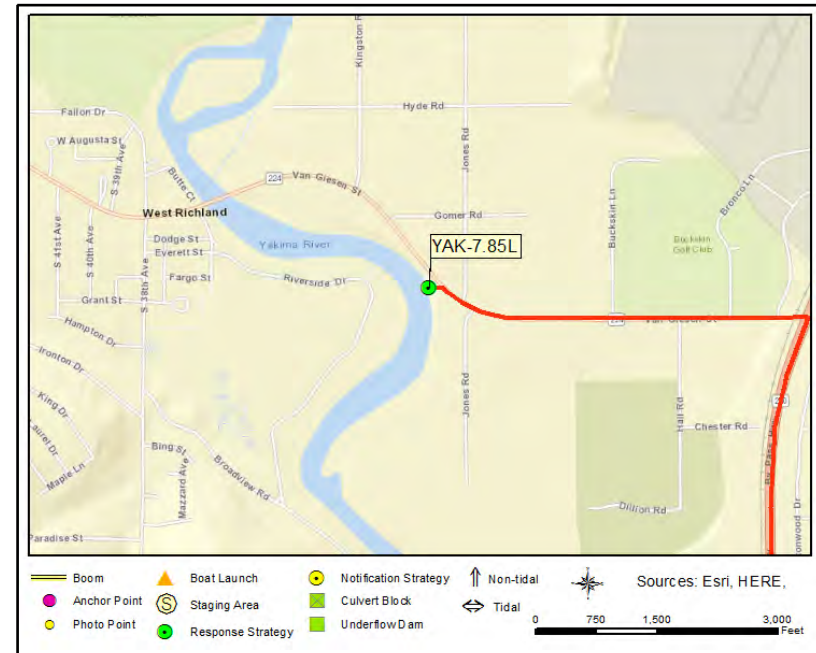
1 Boat Operator
2 Laborer
1 Supervisor

Van Giesen St at Jones Road

YAK-7.85L



YAK-7.85L Photo: View of the collection point for YAK-7.85L, photo taken from shore



Site Contact

WSDOT

Land/Property Contact : S Central Region Traffic Management/WSP District 3

Union Gap, WA 98903
509-577-1990

Nearest Address

2815 Van Giesen St
Richland, WA 99354

Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (0.84 miles)
6. Finish just past 2815 Van Giesen St, 99354, on the left

West Van Giesen Street Bridge

YAK-8.5R

Position - Location: 46° 17.836', -119° 20.007' 46° 17' 50.1", -119° 20' .4" 46.29726, -119.33345 West Richland

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 300 ft of boom to shore on river left, at/near Point A (46.29741, -119.333249). Extend boom downstream, securing it on river right at/near Point B (46.29741, -119.333249). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point B.

Staging Area: Onsite : There is an access gate at end of cul-de-sac on S 35th Ave. Parking beside bridge and along riverside.

Site Safety: Water Hazard; Rip Rap; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 9.5 miles downstream of the Wanawish Diversion Dam

Resources at Risk: Economic Resource, General Fish and Wildlife Resources, Riparian Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

West Van Giesen Street Bridge

YAK-8.5R



YAK-8.5R Photo: View of the shoreline under the W Van Giesen St Bridge

Site Contact

West Richland Public Works

Municipality (County/City) : Contact for gate access

West Richland, WA 99353
509-967-5434

Nearest Address

S 35th Ave
West Richland, WA 99353



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.71 miles)
6. Turn left on S 38th Ave (0.08 miles)
7. Turn left on Everett St (0.16 miles)
8. Turn left on S 35th Ave (0.1 miles)
9. Finish at the end of S 35th Ave, 99353, on the right

Hyde Road Boat Launch

YAK-8.75L

Position - Location: 46° 18.035', -119° 19.878' 46° 18' 2.1", -119° 19' 52.7" 46.30059, -119.33130 West Richland

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 600 ft of boom to river right at/near Point A (46.3022, -119.33125.). Extend boom downstream, securing it mid-channel, at/near Point B (46.30162, -119.33119). Then extend remaining boom downstream, securing it by launch, at/near Point C (46.30059, -119.33106). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

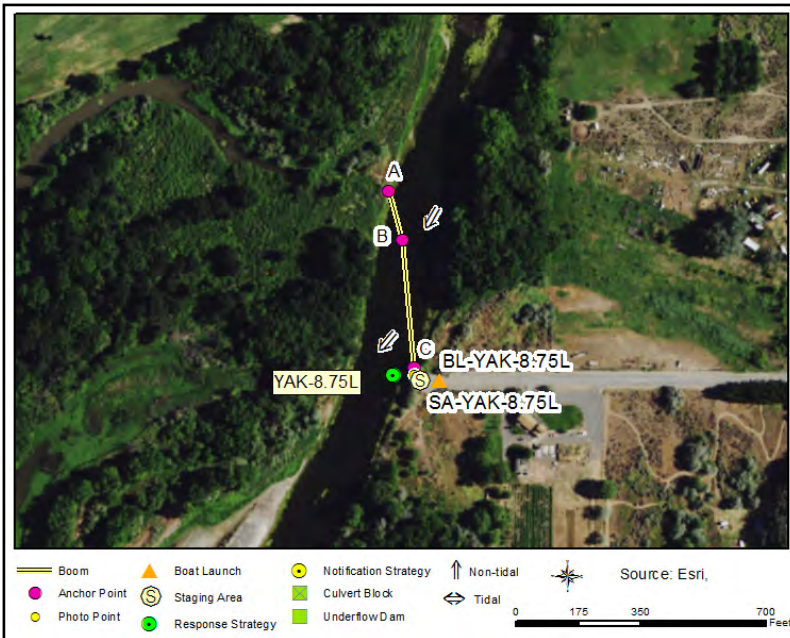
Staging Area: Onsite : Stage at SA-YAK-8.75L, Hyde Road Boat Launch

Site Safety: Public Use Site; Boat/Vehicle/Pedestrian Traffic; Water Hazard; Slips, Trips, Falls; Dangerous Animals\Snakes; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 9.25 miles below the Wanawish Diversion Dam

Resources at Risk: Boat Launch/Ramp, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

8 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Hyde Road Boat Launch

YAK-8.75L



YAK-8.75L Photo: View of the shore near anchor point A at the Hyde Rd boat launch

Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

3000 Hyde Road
West Richland, WA 99354



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354

Horseshoe Lake - Downstream End

YAK-10.9L

Position - Location: 46° 19.435', -119° 20.573' 46° 19' 26.1", -119° 20' 34.4" 46.32392, -119.34289 Richland

Strategy Objective: Exclusion : Keep oil out of entrance to Horseshoe Lake on river left

Implementation: Using a workboat, secure end of 100 ft of boom to bank on river left, immediately upstream of entrance to Horseshoe Lake, at/near Point A (46.32388, -119.343). Extend boom downstream, across lake entrance, and secure on river left at/near Point B (46.32403, -119.34279). Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchoring systems as needed, based on stream flow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-8.75L, on Hyde Road

Site Safety: Water Hazard; Heavy Vegetation; Slips, Trips, Falls

Field Notes: Launch at BL -YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 7.1 miles downstream of the Wanawish Diversion Dam

Resources at Risk: General Fish and Wildlife Resources, Riparian Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Horseshoe Lake - Downstream End

YAK-10.9L



YAK-10.9L Photo: Looking NW from boat toward downstream end of Horseshoe Lake.

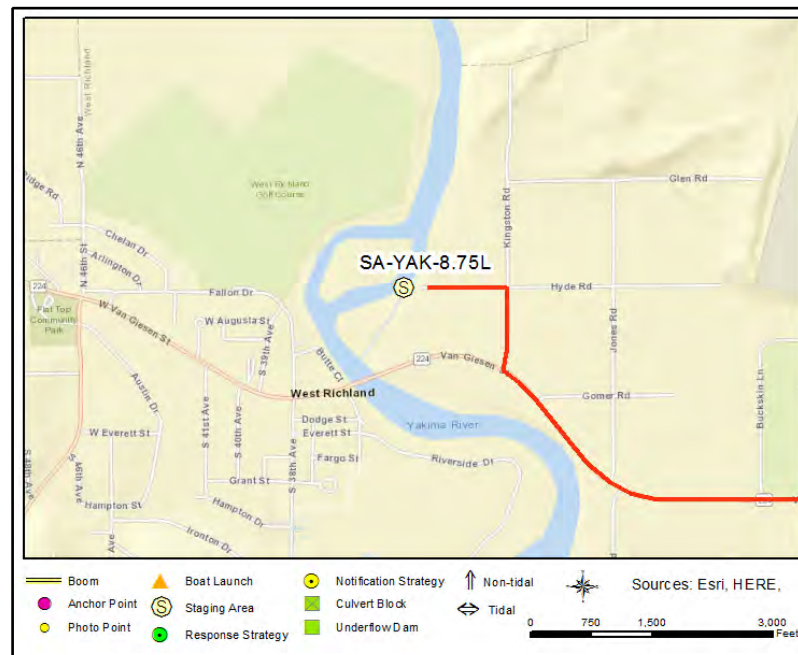
Site Contact

No Information

Not Determined :

Nearest Address

3100 Hyde Road
Richland, WA 99354



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-8.75L/BL-YAK-8.75) Hyde Road Boat Launch

1. Head west from West Richland on I-182 W (US-12 W) (0.07 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at 3100 Hyde Rd, 99354, on the left

Horseshoe Lake - upstream end

YAK-11.25L

Position - Location: 46° 19.213', -119° 20.900' 46° 19' 12.8", -119° 20' 54.0" 46.32021, -119.34834 West Richland

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 600 ft of boom to bank on river right at/near Point A (46.318808, -119.34814). Extend boom downstream to mid channel, securing it at/near Point B (46.319952, -119.348263). Take the remaining boom across channel to river left, securing it at/near Point C (46.320662, -119.348225). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Use skimmer/portable storage to collect oil at

Staging Area: Onsite : Field, accessible by dirt road. Can stage at SA-YAK-8.75L Hyde Road Boat Launch if dirt road is inaccessible.

Site Safety: Water Hazard; Off-road Driving; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-8.75L Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow. In low flow it may be necessary to hand launch on site and reduce length of boom to 300'

Watercourse: River - Below a Dam - Yakima River, 6.75 miles downstream of the Wanawish Diversion Dam

Resources at Risk: General Fish and Wildlife Resources, Riparian Habitat



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
600 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor

Horseshoe Lake - upstream end

YAK-11.25L



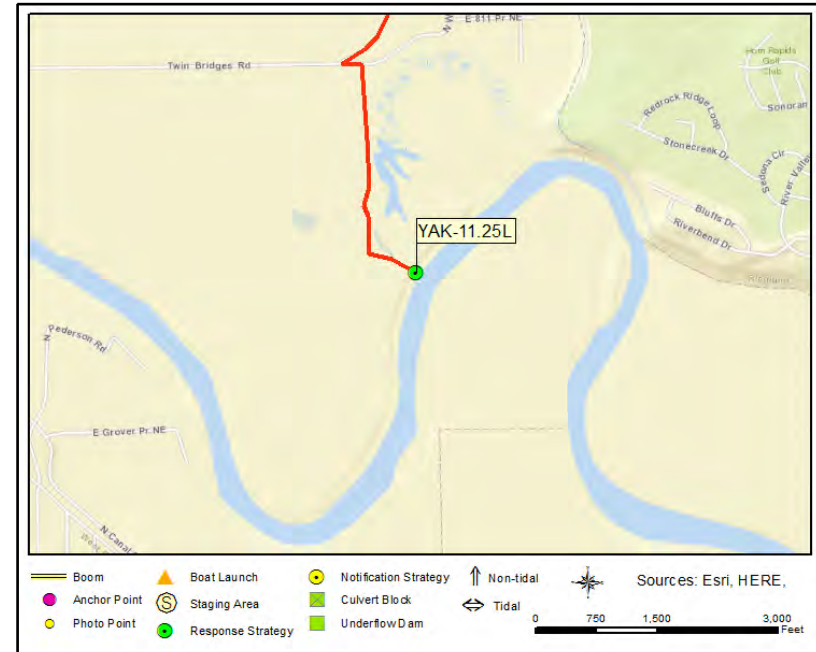
YAK-11.25L Photo: View of anchor point B on the Yakima River near the upstream end of Horseshoe Lake

Site Contact

No Information
Not Determined :

Nearest Address

80721 N Weidle Road
West Richland, WA 99353



Driving Directions

1. Head west from West Richland on I-182 W toward Richland (8.54 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (3.7 miles)
6. Turn left on Twin Bridges Rd (1.1 miles)
7. Turn left on N Weidle Rd (0.02 miles)
8. Take the first dirt road on the right past 80721 N Weidle Road, 99353, follow it back to strategy location on the river 46.320363, -119.34858

Shore off of N 46th Ave

YAK-11.5R

Position - Location: 46° 18.899', -119° 20.956' 46° 18' 54.0", -119° 20' 57.4" 46.31499, -119.34927 West Richland

Strategy Objective: Deflection : Keep oil away from entrance to backwater channel on river right

Implementation: Using workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.314523, -119.349093). Extend boom downstream to mid channel, securing it on the left side of the island at/near Point B (46.31499, -119.349273). Take the remaining boom further downstream, securing it at/near Point C (46.315277, -119.349152). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-8.75L, Hyde Road, if low water stage on river left near strategy location 46.314901, -119.350449

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-8.75L, Hyde Road Boat Launch, unless low water conditions and then may need to hand launch from river left near 46.314901, -119.350449 across from strategy location. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 7.5 miles downstream of the Wanawish Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

4 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

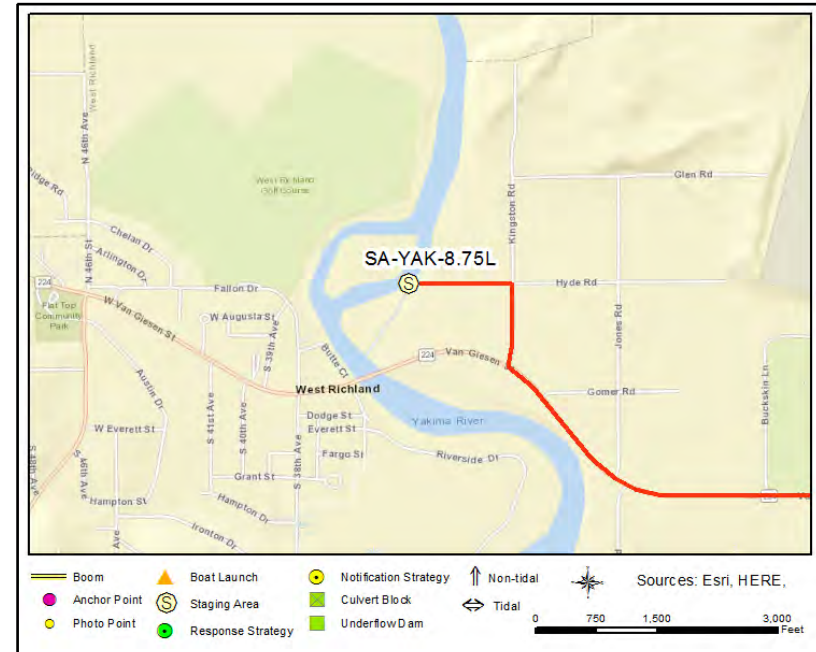
1 Boat Operator
2 Laborer
1 Supervisor

Shore off of N 46th Ave

YAK-11.5R



YAK-11.5R Photo: View of the island downstream, location of anchor point B



Site Contact

No Information
Not Determined :

Nearest Address

3100 Hyde Road
Richland, WA 99354

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA8.75L/BL-YAK-8.7fL) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. Go north on N Road 68 toward Argent Rd (1.45 miles)
3. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (5.47 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 W (By Pass Hwy) (2.54 miles)
7. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
8. Turn right on Kingston Rd (0.2 miles)
9. Turn left on Hyde Rd (0.15 miles)
10. Finish at Hyde Road Boat Launch at the end of West Hyde Rd, 99354

Left fork at Twin Bridges Road

YAK-13.3L

Position - Location: 46° 19.628', -119° 22.499' 46° 19' 37.7", -119° 22' 30.0" 46.32713, -119.37499 West Richland

Strategy Objective: Deflection : Keep oil away from side channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to river left at/near Point A (46.327383, -119.375471). Extend boom downstream to mid-channel, securing it to the NW tip of the island at/near Point B (46.327383, -119.375471). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

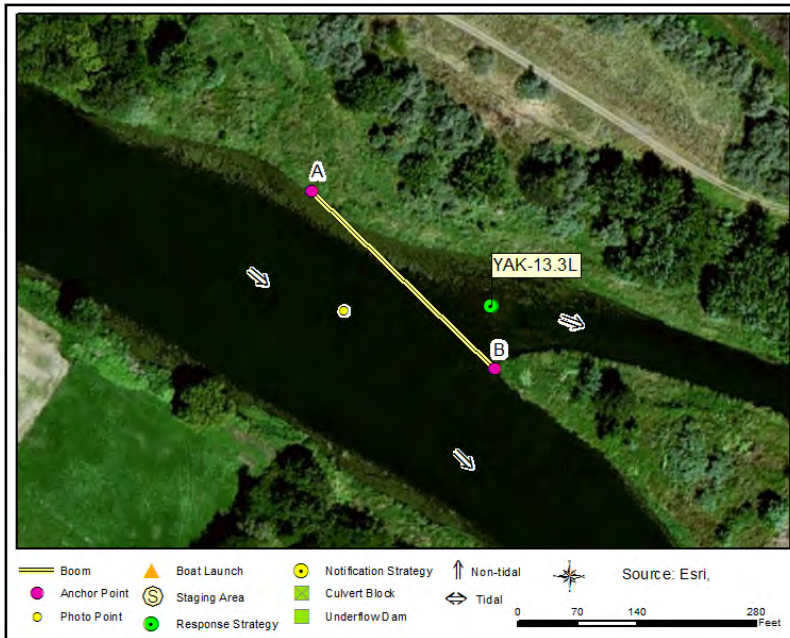
Staging Area: Remote : Stage at SA-YAK-16.25L (in low water conditions you may be able to stage off N Snively Rd at Twin Bridges)

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-16.25L, North Snively Road Boat Launch. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 4.7 mile downstream of Wanawish Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Left fork at Twin Bridges Road

YAK-13.3L



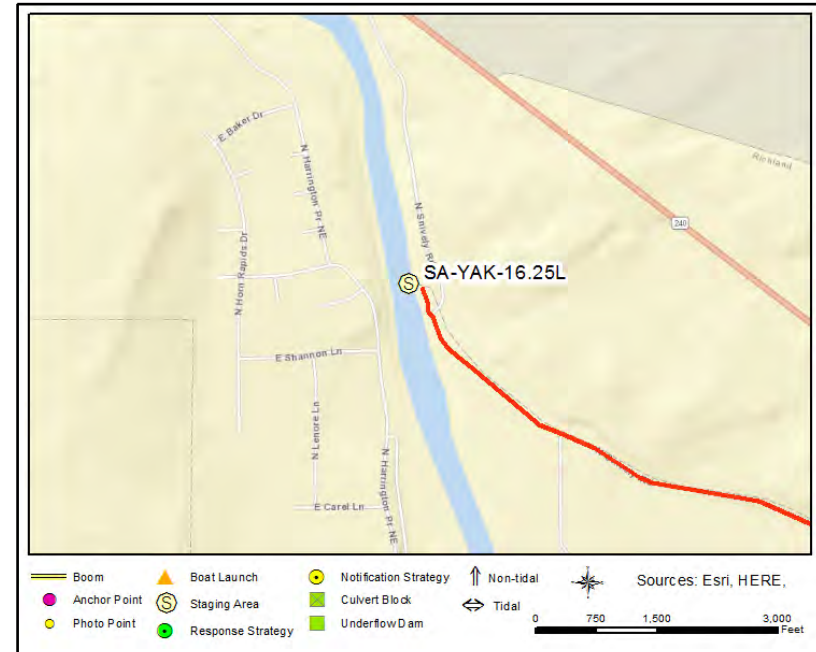
YAK-13.3L Photo: View of the Y channels at YAK-13.3

Site Contact

No Information
Not Determined :

Nearest Address

4116 N Snively Rd
West Richland, WA 99353



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

N Yakima River Drive

YAK-14.0R

Position - Location: 46° 19.781', -119° 23.177' 46° 19' 46.8", -119° 23' 10.6" 46.32968, -119.38628 West Richland

Strategy Objective: Deflection : Keep oil away from side channel entrance on river right

Implementation: Using workboat, secure end of 300 ft of boom to river right at/near Point A (46.329933, -119.387051). Extend boom downstream to mid-channel, securing it on the NW tip of the island at/near Point B (46.32786, -119.38588). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Remote : Stage at SA--YAK-16.25L, North Snively Road Boat Launch.

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-16.25L. North Snively Road Boat Launch. In low water conditions you may be able to hand launch from an empty lot near 80331 N Yakima River Dr., West Richland, 99353. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 4 miles downstream of Wanawish Diversion Dam.

Resources at Risk: Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

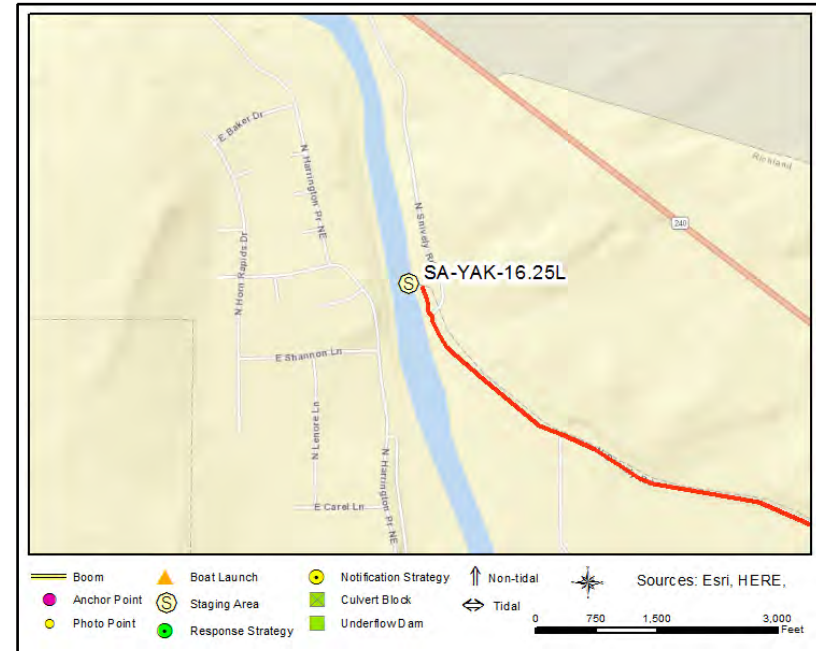
3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor



YAK-14.0R Photo: View of the Y Channels at river mile 14 on the Yakima River



Site Contact

No Information
Not Determined :

Nearest Address

4116 N Snively Rd
West Richland, WA 99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

Backwater Area Upstream of Snively Road

YAK-14.1L

Position - Location:	46° 19.879', -119° 23.277'	46° 19' 52.7", -119° 23' 16.6"	46.33131, -119.38795	West Richland
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Strategy Objective: Exclusion : Keep oil out of entrance to backwater area on river left

Implementation:	Using workboat, secure end of 100 ft of boom to river left at/near Point A (46.331521, -119.387922). Extend boom downstream, across the backwater channel, securing it on river left at/near Point B (46.331267, -119.387694). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.
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Staging Area: Remote : Stage at SA-YAK-16.25L, North Snively Road Boat Launch

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes:	Launch at BL-YAK-16.25L, North Snively Road Boat Launch. In low water conditions you may be able to hand launch on river right via the empty lot near 80331 N Yakima River Dr. West Richland, 99353. Yakima River has extreme variability in seasonal flow.
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Watercourse: River - Below a Dam - Yakima River, 3.9 miles downstream of Wanawish Diversion Dam.

Resources at Risk: Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment	
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1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel	
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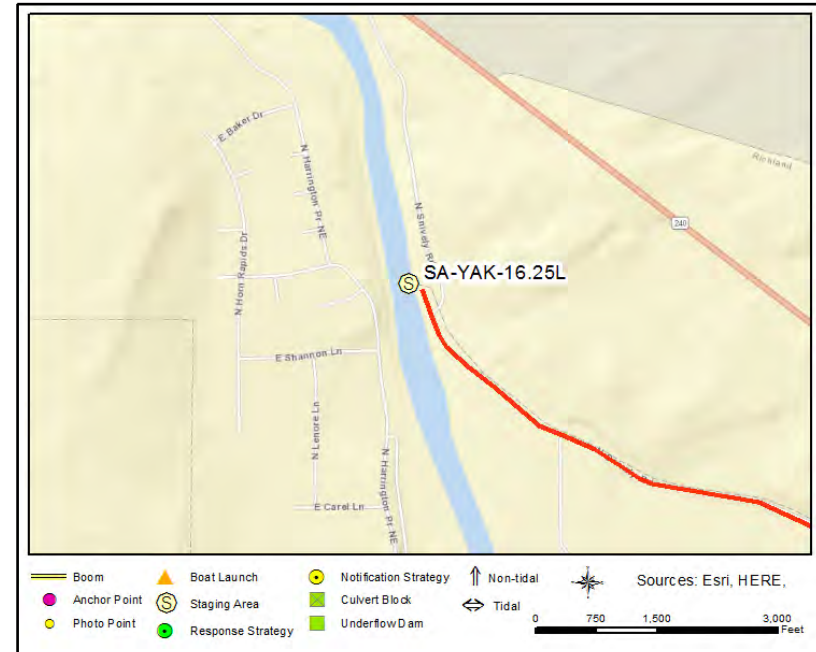
1	Boat Operator
2	Laborer
1	Supervisor

Backwater Area Upstream of Snively Road

YAK-14.1L



YAK-14.1L Photo: View of the backwater entrance where YAK-14.1L will be deployed



Site Contact

No Information
Not Determined :

Nearest Address

4116 N Snively Rd
West Richland, WA 99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

Yakima River, River Mile 15.15 YAK-15.15R

Yakima River, River Mile 15.15 YAK-15.15R

Position - Location:	46° 20.683', -119° 23.444'	46° 20' 41.0", -119° 23' 26.6"	46.34472, -119.39073	West Richland
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Strategy Objective: Deflection : Keep oil away from entrance to channel on river right.

Implementation:	Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.34505, -119.39119). Extend boom downstream, across the channel, securing it on the NW tip of the island at/near Point B (46.34405, -119.39012.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.
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Staging Area: Remote : Stage at SA-YAK-16.25L, North Snively Road Boat Launch. May see heavy seasonal use.

Site Safety:	Water Hazard; Slips, Trips, Falls; Heavy Vegetation
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Field Notes: Launch at BL-YAK-16.25L, North Snively Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 2.85 miles downstream of the Wanawish Diversion Dam.

Resources at Risk: Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

6	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
500	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



YAK-15.15R Photo: Looking south from boat toward right channel across which boom would be deployed.

Site Contact

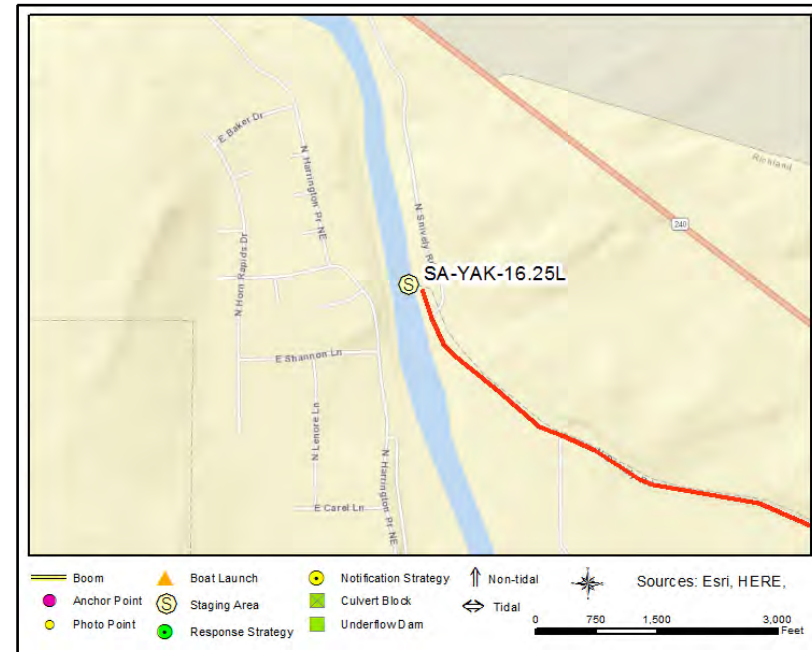
WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

4116 N Snively Rd
West Richland, WA 99353



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

North Snively Road Boat Launch

YAK-16.25L

Position - Location: 46° 21.613', -119° 23.840' 46° 21' 36.8", -119° 23' 50.4" 46.36021, -119.39733 West Richland

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 800 ft of boom to river right at/near Point A (46.361893, -119.398442.). Extend boom downstream to mid-channel, securing it at/near Point B (46.361314, -119.397536). Extend remaining boom to upstream side of boat launch, securing it at/near Point C (46.359938, -119.396673). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

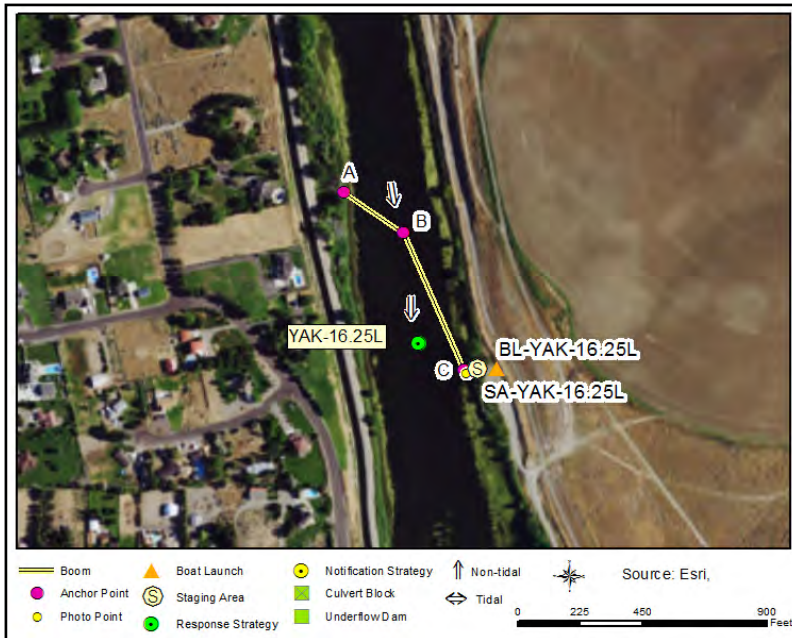
Staging Area: Onsite : SA-YAK-16.25L, North Snively Road Boat Launch. May see heavy seasonal use

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation; Vehicle/Boat/Pedestrian Traffic

Field Notes: Launch onsite at BL-YAK-16.25L, North Snively Road Boat Launch. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 1.75 miles downstream of the Wanawish Diversion Dam.

Resources at Risk: Great Blue Heron, Recreational Use Area, Salmonid Concentrations and Habitat, Waterfowl Concentrations



Recommended Equipment

10 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
800 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

North Snively Road Boat Launch

YAK-16.25L



YAK-16.25L Photo: View of anchor point A looking upstream toward anchor point B

Site Contact

WDFW Region 3 South Central

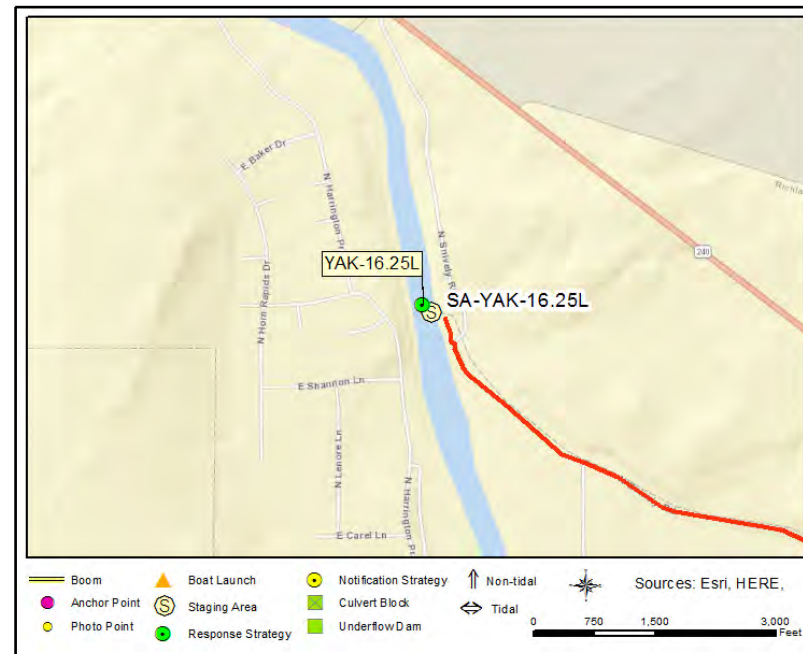
Primary Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

4116 N Snively Rd
West Richland, WA 99353



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head west from West Pasco on I-182
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (2.89 miles)
6. Turn right on Grosscup Blvd (0.78 miles)
7. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
8. Turn left on N Grosscup Rd (0.53 miles)
9. Continue on N Yakima River Dr (0.1 miles)
10. Turn right on Twin Bridges Rd (0.29 miles)
11. Turn left on N Snively Rd (2.8 miles)
12. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

North Harrington Road Water Access Site

YAK-18.35R

Position - Location: 46° 22.753', -119° 25.465' 46° 22' 45.2", -119° 25' 27.9" 46.37922, -119.42441 Benton City

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 900 ft of boom to river left at/near Point A (46.379933, -119.426354.). Extend boom downstream to mid-channel, securing it at/near Point B (46.379537, -119.424896). Then extend remaining boom downstream to river right, securing it at/near Point C (46.379332, -119.422939). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

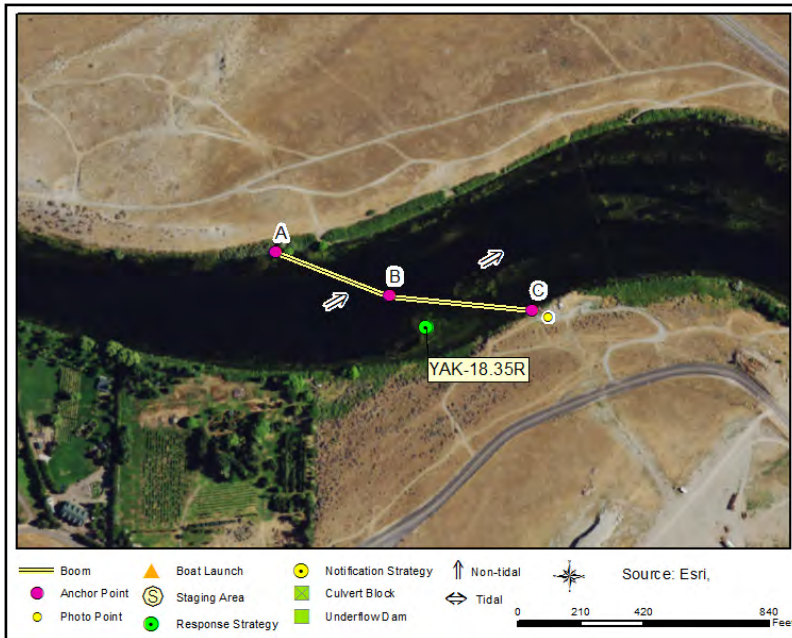
Staging Area: Remote : Stage at SA-YAK-18.7L, Horn Rapids Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Vehicle/Boat/Pedestrian Traffic; Heavy Vegetation; Diversion Dam

Field Notes: Launch at BL-YAK-18.7L, Horn Rapids Boat Launch. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 0.35 miles upstream of Wanawish Diversion Dam

Resources at Risk: Fish Screens, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and



Recommended Equipment

11 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
900 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

North Harrington Road Water Access Site

YAK-18.35R



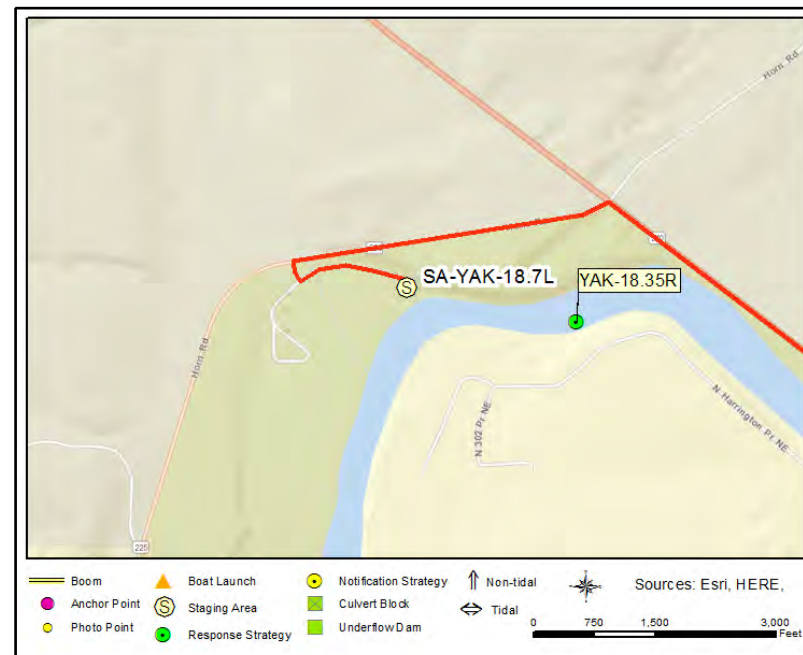
YAK-18.35R Photo: View downstream of anchor point C taken from a cliff on the south shore above anchor point A

Site Contact

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

Nearest Address

115799 N WA-225
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.

Horn Rapids Park

YAK-18.8L

Position - Location: 46° 22.659', -119° 26.074' 46° 22' 39.5", -119° 26' 4.4" 46.37765, -119.43456 Benton City

Strategy Objective: Deflection : Keep oil away from park shoreline on river left.

Implementation: Using workboat, secure end of 500 ft of boom to river left, on Horn Rapid Park shoreline, at/near Point A (46.377135, -119.435032). Extend boom downstream, securing it mid-channel at/near Point B (46.378194, -119.433771). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Remote : Stage at SA-YAK-18.7L, Horn Rapids Boat Launch. There is additional staging west of YAK-18.8L past the campground

Site Safety: Water Hazard; Vehicle/Boat/Pedestrian Traffic; Slips, Trips, Falls; Dangerous Animals\Snakes; Heavy Vegetation

Field Notes: Launch at BL-YAK-18.7L, Horn Rapids Boat Launch. Coordinate with Benton County Parks Department at 509-783-3118 for access. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Above a Dam - Yakima River, 0.8 miles upstream of Wanawish Dam

Resources at Risk: County Park, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor

Horn Rapids Park

YAK-18.8L



YAK-18.8L Photo: View of the east bank across from the location where the deflection strategy YAK-18.8L is to be deployed

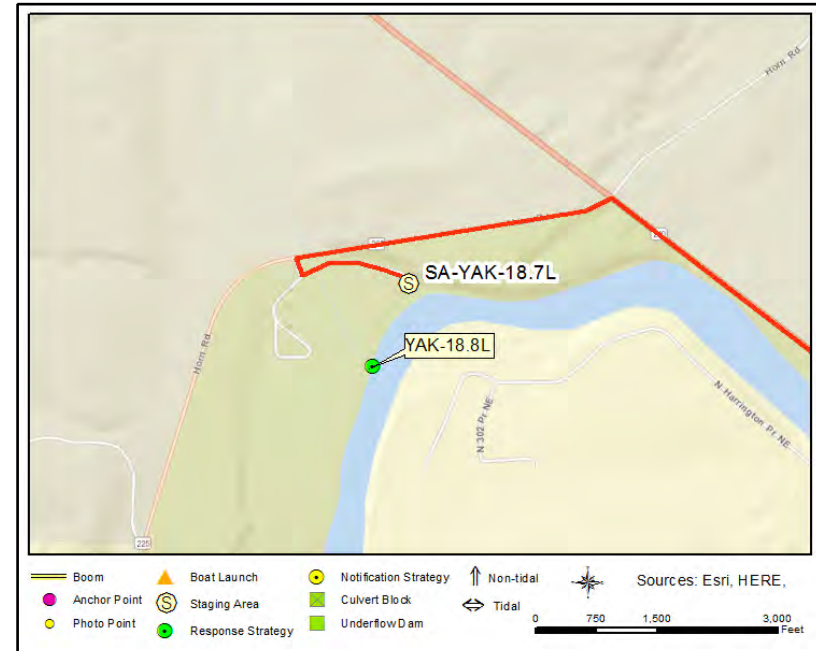
Site Contact

Benton County Parks Department

Primary Contact : Manage parks
5600A West Canal Place, A101
Kennewick, WA 99336
509-783-3118

Nearest Address

115799 N WA-225
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.

Yakima River, River Mile 20.4

YAK-20.4L

Position - Location: 46° 21.446', -119° 26.691' 46° 21' 26.7", -119° 26' 41.5" 46.35743, -119.44485 Benton City

Strategy Objective: Deflection : Keep oil away from entrance to side channel on river left

Implementation: Using workboat, secure end of 500 ft of boom to river left at/near Point A (46.35725, -119.44623). Extend boom downstream, securing it to the tip of a small island at/near Point B (46.357527, -119.445044). Then extend remaining boom downstream towards river right, securing it to the tip of the large island at/near Point C (46.357749, -119.444282). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-18.7L, Horn Rapids Park but you can drive to a parking lot on Reservation Road by the site.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Although possible to launch and stage onsite, it is recommended to launch at BL-YAK-18.7L, Horn Rapids Park. Coordinate with Benton County Parks at 509-783-3118 for access issues. Horn Rapids Park has campground with power, potable water, and additional

Watercourse: River - Above a Dam - Yakima River, 2.4 miles upstream of Wanawish Diversion Dam.

Resources at Risk: Backwater Habitat, County Park, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor



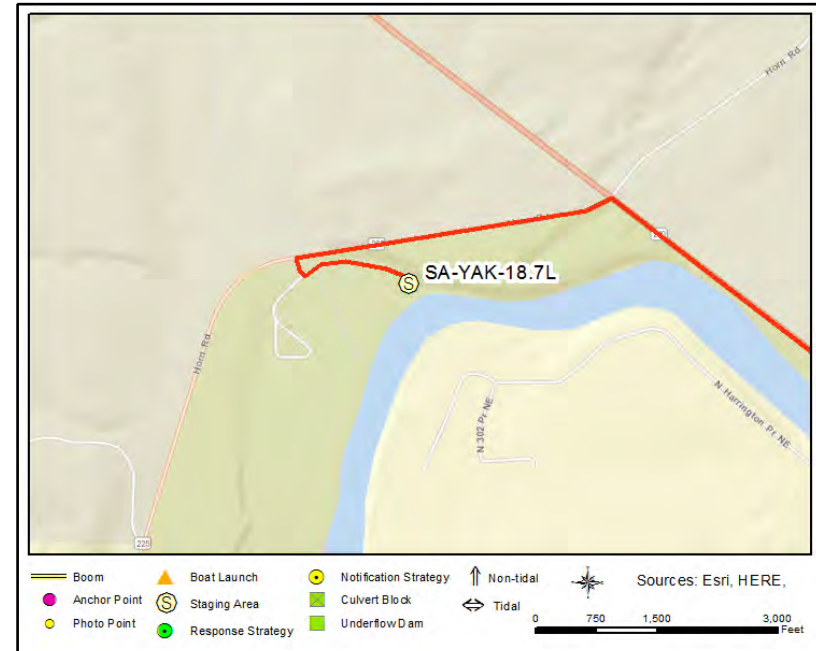
YAK-20.4L Photo: View of anchor point A and B taken from shore on river left

Site Contact

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

Nearest Address

115799 N WA-225
 Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.

Tapteal Water Trail mile 6.7 Access Site

YAK-22.7L

Position - Location: 46° 20.240', -119° 28.834' 46° 20' 14.4", -119° 28' 50.0" 46.33734, -119.48056 Benton City

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.336327, -119.480987). Extend boom downstream, securing it mid-river at/near Point B (46.336694, -119.480896). Then extend remaining boom downstream, securing it to shore on river left at/near Point C (46.337504, -119.480089). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point C.

Staging Area: Remote : SA-YAK-18.7L, Horn Rapids Park boat launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-18.7L, Horn Rapids Park. Horn Rapids Park has campground with power, potable water, and additional restrooms. Yakima River has extreme variability in seasonal flow. Vac truck access onsite from Higgins Access Road then south along river to site.

Watercourse: River - Above a Dam - Yakima River, 4.7 miles upstream of Wanawish Diversion Dam

Resources at Risk: County Park, Downstream Habitat, General Fish and Wildlife Resources, Sensitive Resources Nearby



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



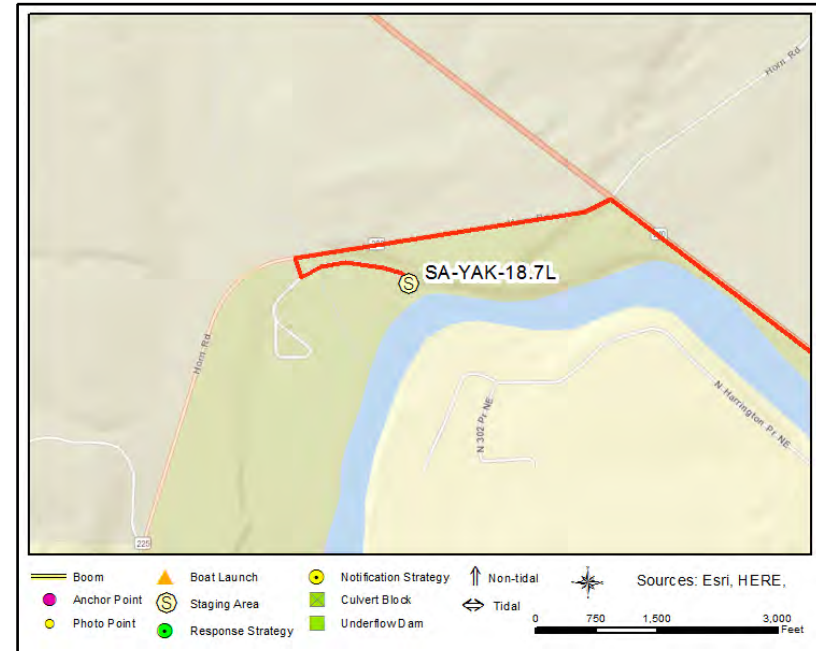
YAK-22.7L Photo: View of anchor point C, the collection point, at YAK-22.7L

Site Contact

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

Nearest Address

115799 N WA-225
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.

Intersection of Demoss Road and Ruppert Road

YAK-25.2R

Position - Location: 46° 18.764', -119° 28.354' 46° 18' 45.9", -119° 28' 21.3" 46.31274, -119.47257 Benton City

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.311786, -119.472831,). Extend boom downstream, securing it at/near Point B (46.312319, -119.472637). Then extend remaining boom downstream, securing it to shore on river left at/near Point C (46.313129, -119.472801). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil near Point C

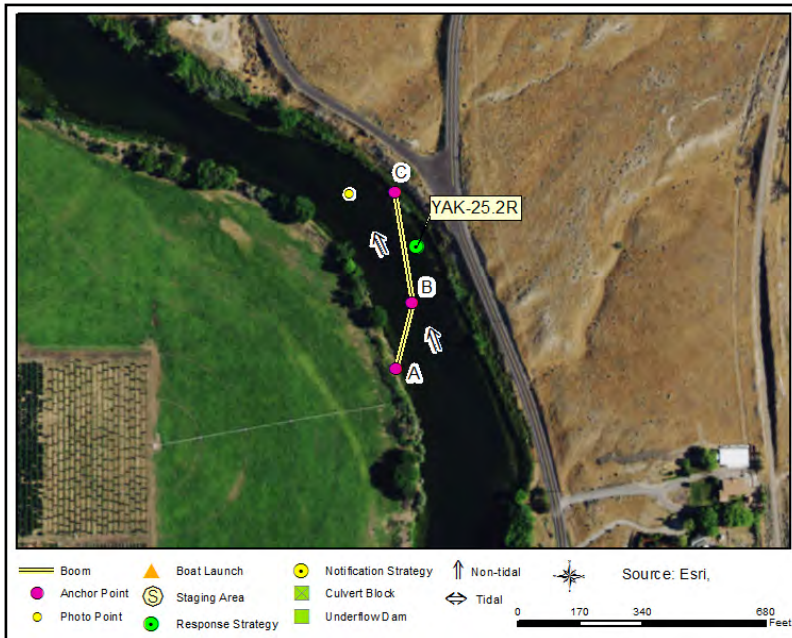
Staging Area: Onsite : Stage at gravel pull out off Demos Road

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Follow WSDOT guidelines for work zone traffic control during collection roadside. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 21.7 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Area, Waterfowl and Salmonid Concentrations and Habitat



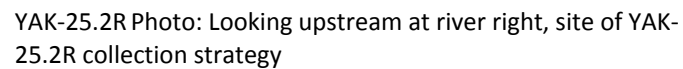
Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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-25.2R



1. Head west from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (2.21 miles)
2. Turn right on E Ruppert Rd (5.12 miles)
3. Make sharp right on N Demoss Rd (0.13 miles)
4. Finish at 70212 N Demoss Rd, 99320, on the left

Nearest Address

70212 N Demoss Rd
Benton City, WA 99320

North Demoss Road at Songbird Island

YAK-26.9R

Position - Location: 46° 17.484', -119° 28.282' 46° 17' 29.0", -119° 28' 16.9" 46.29140, -119.47137 Benton City

Strategy Objective: Deflection : Keep oil away from entrance to side channel on river right

Implementation: Using workboat, secure end of 500 ft of boom to river right, at/near Point A (46.29074, -119.47093,). Extend boom downstream, securing it to the tip of the island in mid-channel, at/near Point B (46.29186, -119.47206). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

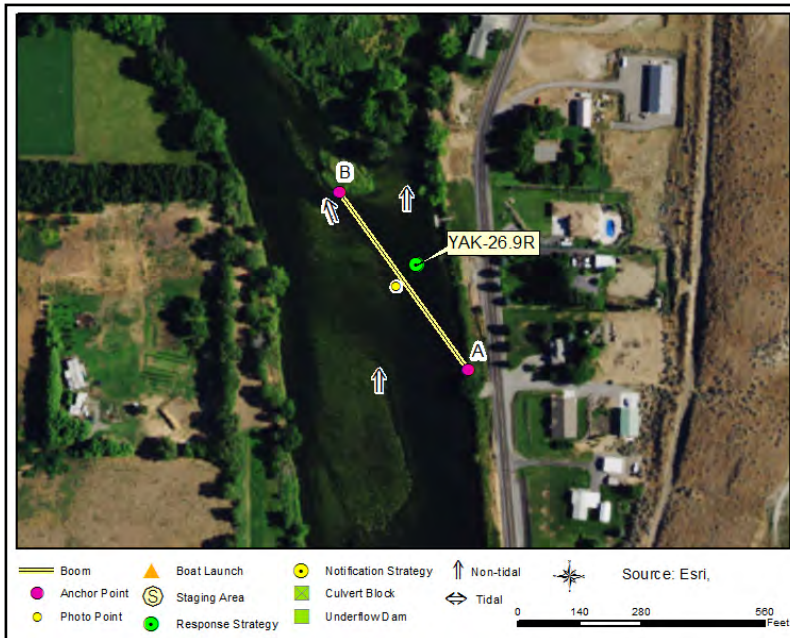
Staging Area: Remote : Stage at SA-YAK-29.6L, Benton City boat launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 20 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor

North Demoss Road at Songbird Island

YAK-26.9R



YAK-26.9R Photo: From Yakima River, looking downstream towards island and side channel on river right. Photo taken in July.

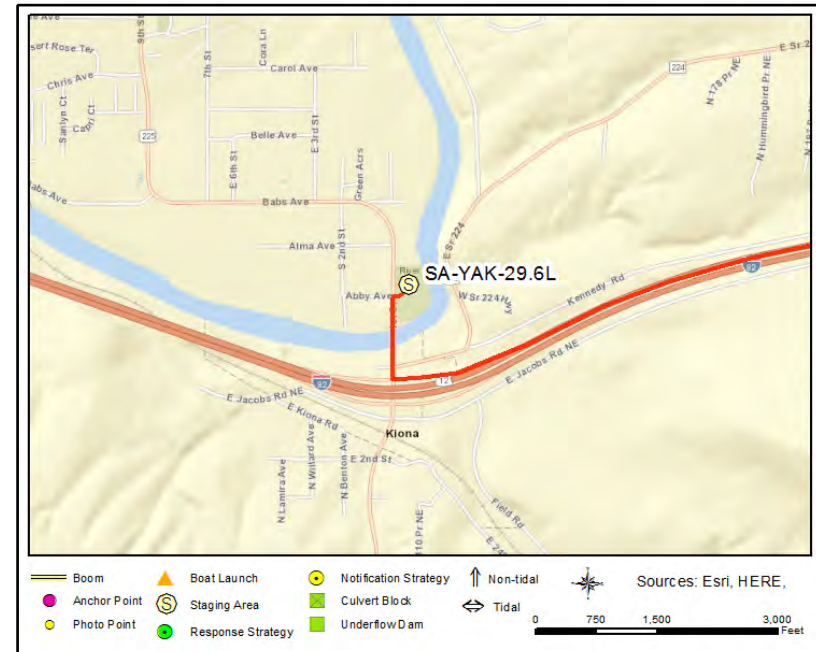
Site Contact

WSDOT

Land/Property Contact : S Central Region Traffic
Management/WSP District 3
509-577-1990

Nearest Address

101 Abby Ave
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Side Channel Near North River Road

YAK-28.1L

Position - Location: 46° 16.403', -119° 28.718' 46° 16' 24.2", -119° 28' 43.1" 46.27338, -119.47863 Benton City

Strategy Objective: Deflection : Keep oil away from entrance to side channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to river left, at/near Point A (46.27297, -119.47878). Extend boom downstream, securing it to the tip of the island in mid-channel, at/near Point B (46.27378, -119.4785). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-29.6L, Benton City boat launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 18.8 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

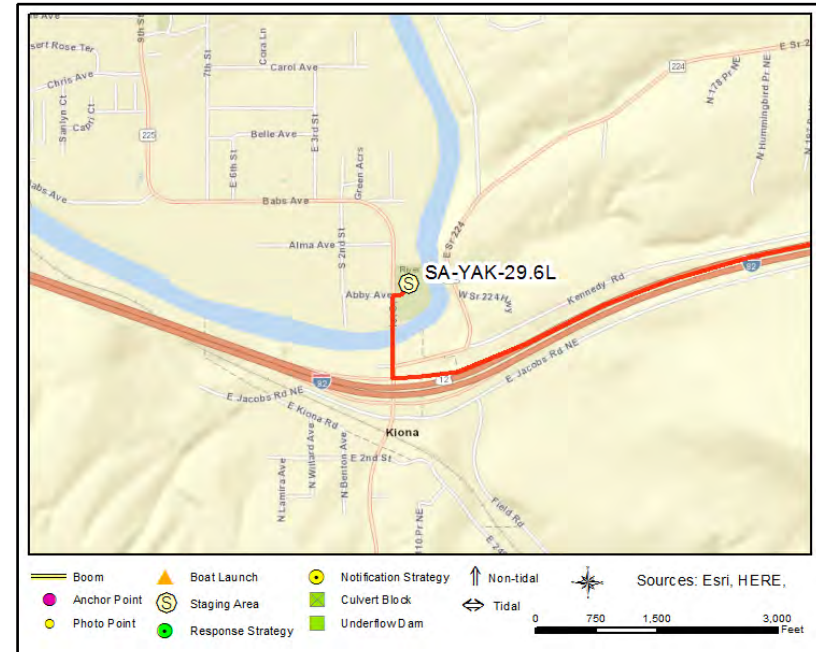
1 Boat Operator
2 Laborer
1 Supervisor

Side Channel Near North River Road

YAK-28.1L



YAK-28.1L Photo: From Yakima River, looking NW at river left and side channel entrance. Taken in early July.



Site Contact

No Information
Not Determined :

Nearest Address

101 Abby Ave
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Kiona Pump Station

YAK-29.15R

Position - Location: 46° 15.598', -119° 28.337' 46° 15' 35.9", -119° 28' 20.2" 46.25996, -119.47228 Benton City

Strategy Objective: Exclusion : Keep oil out of pump station on river right

Implementation: Secure end of 100 ft of boom to river right, on the upstream side of the pump station at/near Point A (46.260194, -119.472045). Extend boom downstream, securing it to the other end of the pump station, at/near Point B (46.260341, -119.472093). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

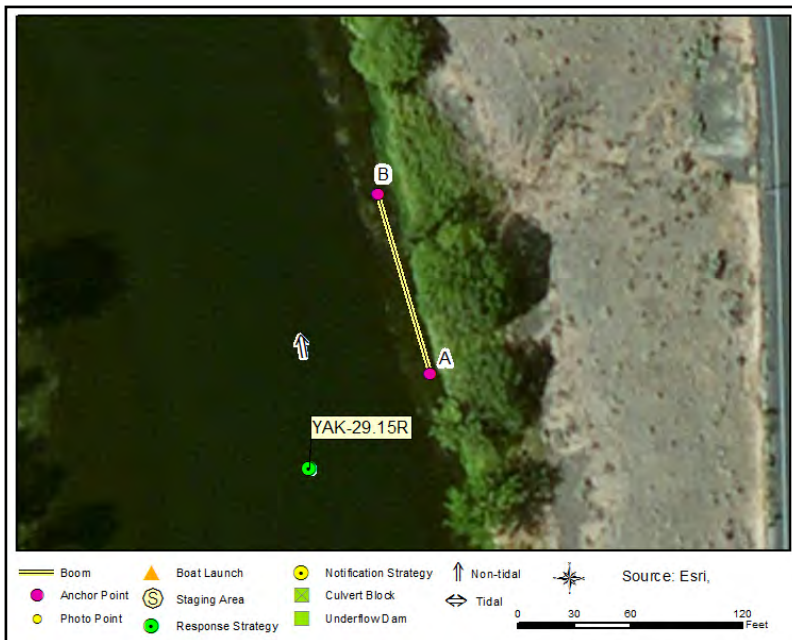
Staging Area: Onsite : Stage onsite at pump station. Paved parking area and concrete roadway.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Contact the US Bureau of Reclamation at 509-406-3031 to coordinate access. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 17.75 miles downstream of the Chandler Diversion Dam

Resources at Risk: Public Health and Safety, Water Intakes



Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Winch - Come-A-Long

Recommended Personnel

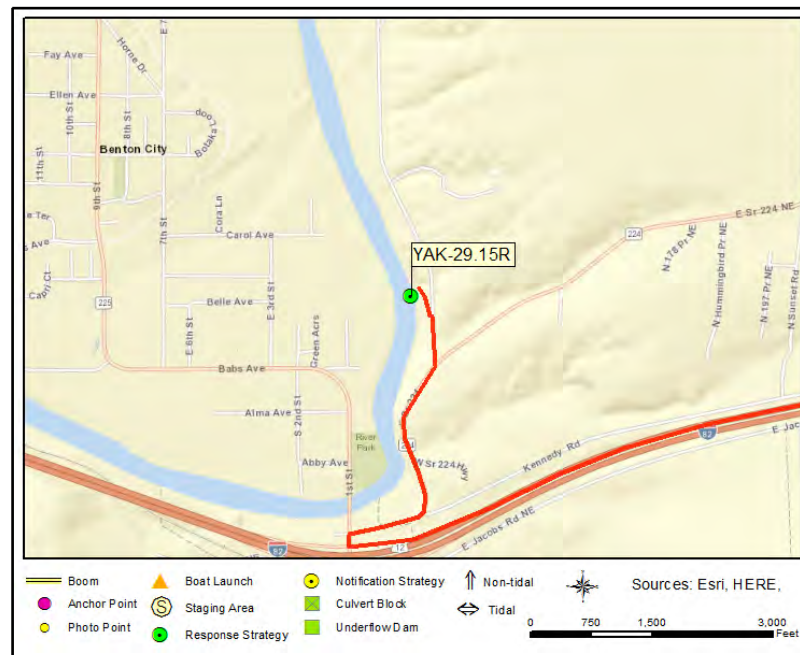
2	Laborer
1	Supervisor

Kiona Pump Station

YAK-29.15R



YAK-29.15R Photo: View of the fish screen in front of the Kiona water intake, taken from the water



Site Contact

Kennewick Irrigation District

Land/Property Contact : Water Intake User

Kennewick, WA
509-586-9111

Nearest Address

33386 N Demoss Rd
Benton City, WA 99320

Driving Directions

1. Head west from West Pasco on I-182 E (US-12 E) (1.29 miles)
2. At exit 12AB take ramp on the right to N 20th Ave / US-395 S toward Columbia Basin College / Kennewick / Pendleton (0.19 miles)
3. At exit 12B keep left on N 20th Ave toward Columbia Basin College (0.46 miles)
4. At exit 12B keep right on N 20th Ave toward Columbia Basin College (0.23 miles)
5. Turn left on N 20th Ave (0.12 miles)
6. Turn left onto ramp and go on I-182 W toward Richland (12.3 miles)
7. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
8. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
9. Turn right on WA-224 and immediately turn right on WA-224 (0.59 miles)
10. Turn left on N Demoss Rd (0.18 miles)
11. Take the next left into the Kiona Pump Station driveway.

Benton City Park

YAK-29.55L

Position - Location: 46° 15.326', -119° 28.427' 46° 15' 19.5", -119° 28' 25.6" 46.25543, -119.47379 Benton City

Strategy Objective: Deflection : Deflect oil away from park shoreline on river left

Implementation: Using workboat, secure end of 200 ft of boom to river left, at/near Point A (46.255328, -119.47413). Extend boom downstream, securing it mid-channel, at/near Point B (46.255874, -119.47386). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

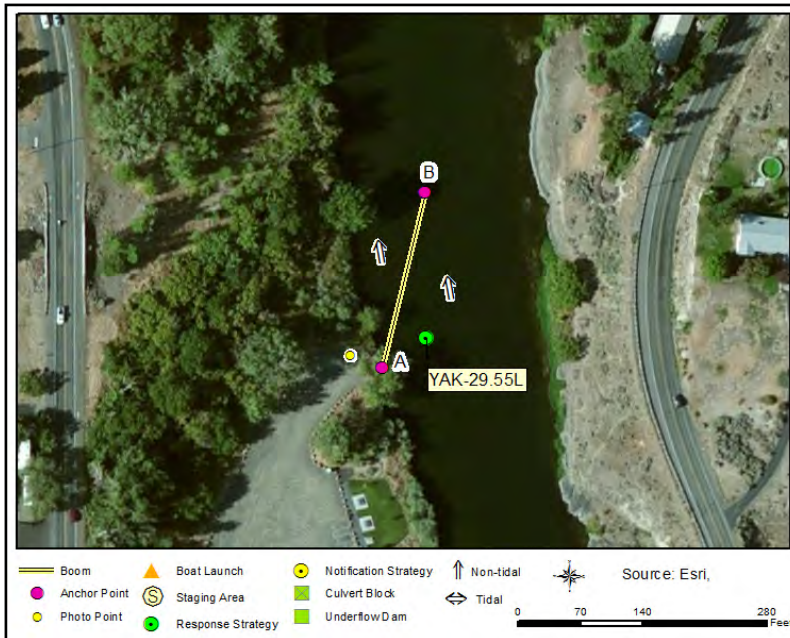
Staging Area: Onsite : Stage at SA-YAK-29.6L, Benton City Park

Site Safety: Public use area; Water Hazard; Slips, Trips, Falls

Field Notes: Launch onsite at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 17.35 miles downstream of Chandler Diversion Dam

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



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River 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

Benton City Park

YAK-29.55L



YAK-29.55L Photo: View of the shoreside anchor point A

Site Contact

WDFW Region 3 South Central

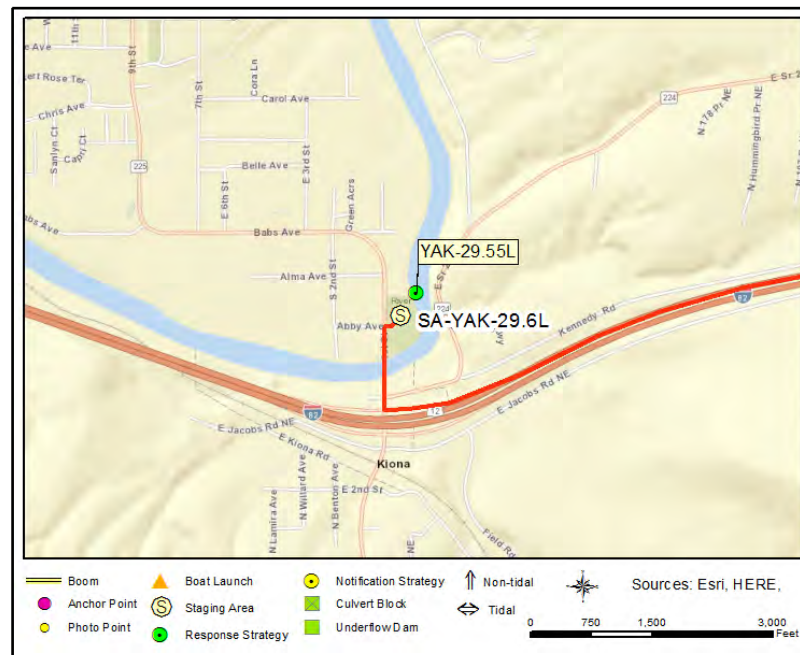
Primary Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

101 Abby Ave
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Kiona Bridge at 1st Street

YAK-29.8R

Position - Location: 46° 15.154', -119° 28.575' 46° 15' 9.3", -119° 28' 34.5" 46.25257, -119.47625 Benton City

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom to river left at/near Point A (46.253026, -119.477342). Extend boom downstream, securing it at/near Point B (46.252686, -119.476217). Then extend remaining boom downstream, securing it on river right, under the Kiona Bridge, at/near Point C (46.252544, -119.475505). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at Point C

Staging Area: Remote : Stage at SA-YAK-29.6L, the Benton City boat launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Follow WSDOT guidelines for work zone traffic control during collection if need to stage vac truck roadside. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 17.1 miles downstream of the Chandler Diversion Dam

Resources at Risk: County Park, General Fish and Wildlife Resources, Recreational Shoreline Area, Sensitive Resources Nearby



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor

Kiona Bridge at 1st Street

YAK-29.8R



YAK-29.8R Photo: View looking upstream from under the south end of the Kiona Bridge in Benton City

Site Contact

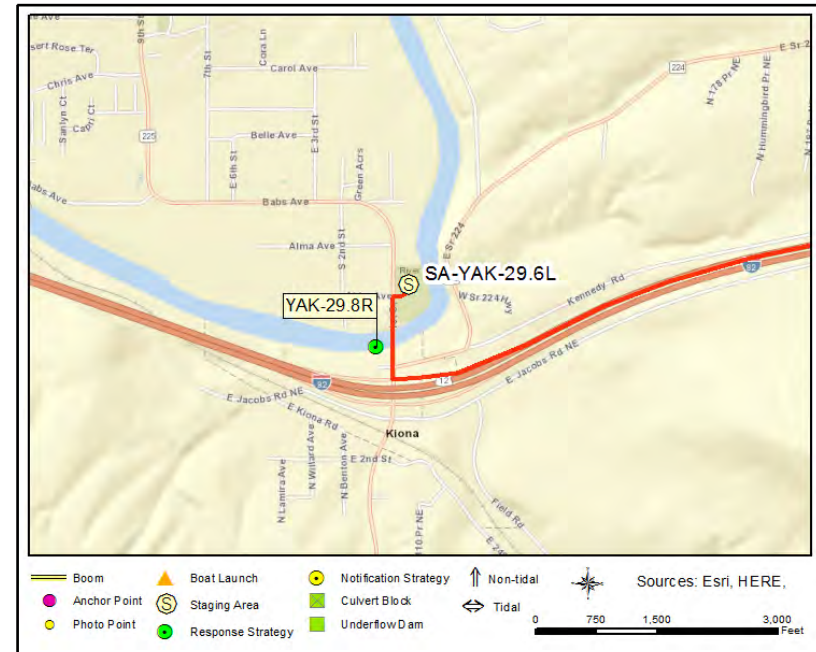
WSDOT

Land/Property Contact : S Central Region Traffic Management/WSP District 3

Union Gap, WA 98903
509-577-1990

Nearest Address

101 Abby Ave
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Side Channel Near West Old Inland Empire Hwy

YAK-32.2L

Position - Location: 46° 16.308', -119° 30.792' 46° 16' 18.5", -119° 30' 47.5" 46.27180, -119.51320 Benton City

Strategy Objective: Deflection : Keep oil away from side channel on river left

Implementation: Using workboat, secure end of 100 ft of boom to river left at/near Point A (46.27197, -119.5131). Extend boom downstream, securing it to the tip of the island at/near Point B (46.27175, -119.513128). Then extend remaining boom downstream, securing it at/near Point C (46.271689, -119.513136). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

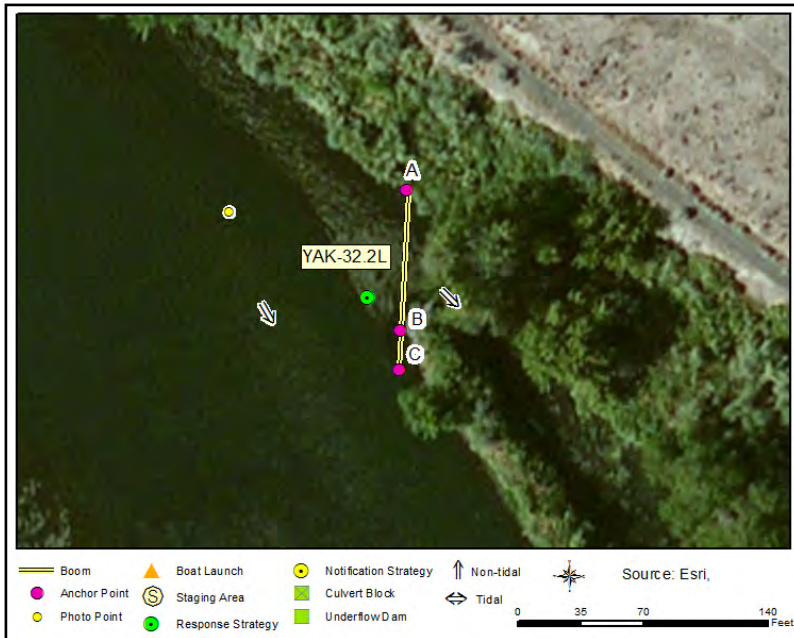
Staging Area: Remote : Stage at SA-YAK-29.6L, the Benton City boat launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 14.7 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

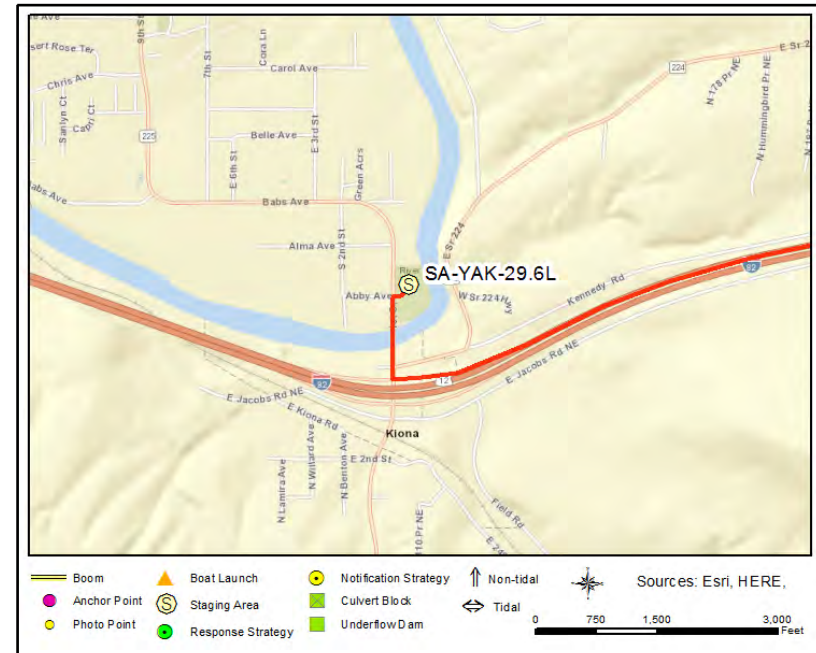
1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-32.2L Photo: From Yakima River, looking SE at river left. Side channel entrance is under large tree. Taken early July.



Site Contact

No Information
Not Determined :

Nearest Address

101 Abby Ave
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Benton Irrigation District Pump Station

YAK-32.45L

Position - Location: 46° 16.500', -119° 31.051' 46° 16' 30.0", -119° 31' 3.0" 46.27500, -119.51751 Benton City

Strategy Objective: Exclusion : Keep oil out of fish screens and water intake pumps on river left at the Benton Irrigation District pumping facility

Implementation: Secure end of 200 ft of boom to river left, at/near Point A (46.275018, -119.517377). Extend boom downstream, securing it at the opposite end of the facility, at/near Point B (46.274709, -119.516965). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Onsite : Paved parking, with water, power, and bathroom inside pump station

Site Safety: Water Hazard; Slips, Trips, Falls

Field Notes: There is a notification strategy for the facility to close gates and shut off pumps but deploy boom regardless. Yakima River has extreme variability in seasonal flow

Watercourse: River - Below a Dam - Yakima River, 14.45 miles downstream of Chandler Diversion Dam

Resources at Risk: Fish Ladder(s), Pump Station, Sensitive Resources, Water Intakes



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
200 Feet	Boom - B3 (River Boom) or equivalent
200 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Winch - Come-A-Long

Recommended Personnel

2 Laborer
1 Supervisor

Benton Irrigation District Pump Station

YAK-32.45L



YAK-32.45L Photo: View looking upstream taken from the front of the Benton Irrigation District pump house facility

Site Contact

Benton Irrigation District

Primary Contact : Pump Station Manager

Benton City, WA
509-947-8908

Nearest Address

18402 W Old Inland Empire Highway
Benton City, WA 99320



Driving Directions

1. Head north from West Pasco on N Road 68 toward Argent Rd (1.45 miles)
2. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
3. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
4. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
5. Turn right on 1st St (WA-224) (0.44 miles)
6. Continue on Babs Ave (WA-225) (0.47 miles)
7. Continue on 9th St (WA-225) (0.04 miles)
8. Turn left on Babs Ave (0.42 miles)
9. Bear right on 14th St (0.19 miles)
10. Turn left on N Kendall Rd NW (1.08 miles)
11. Turn left on W Old Inland Empire Hwy (1.4 miles) going past N. Whan Road to the first gravel drive on the right; follow gravel drive to the end
12. Finish at Benton Irrigation District Pump Station, 18402 W Old Inland Empire Highway, 99320

Side Channel Near Kiona Canal

YAK-32.9L

Position - Location: 46° 16.596', -119° 31.672' 46° 16' 35.8", -119° 31' 40.3" 46.27660, -119.52786 Benton City

Strategy Objective: Deflection : Keep oil away from entrance to channel on river left

Implementation: Using workboat, secure end of 600 ft of boom to shore on river left, at/near Point A (46.27689, -119.52897). Extend boom downstream, securing it on the south shore at the tip of the island, at/near Point B (46.76208, -119.52678.). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

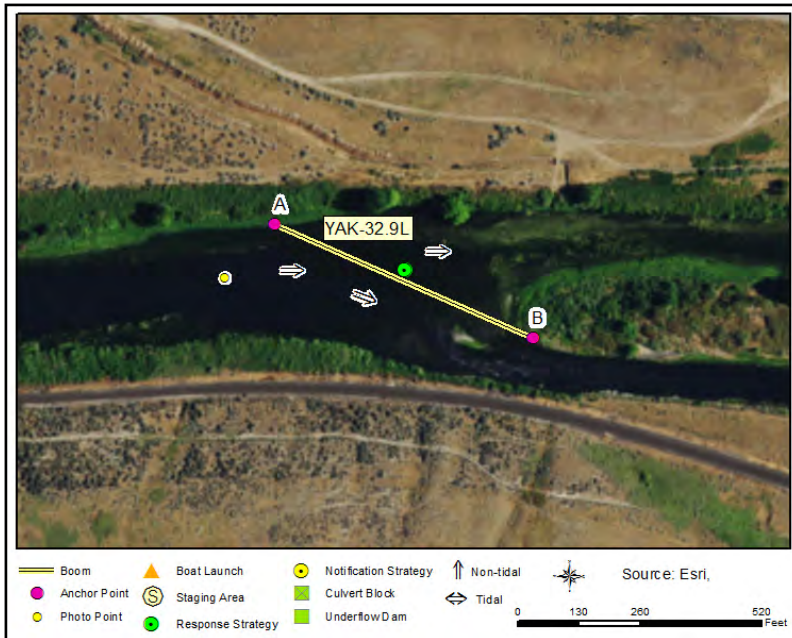
Staging Area: Remote : Stage at SA-YAK-29.6L, the Benton City boat launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 14 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor

Side Channel Near Kiona Canal

YAK-32.9L



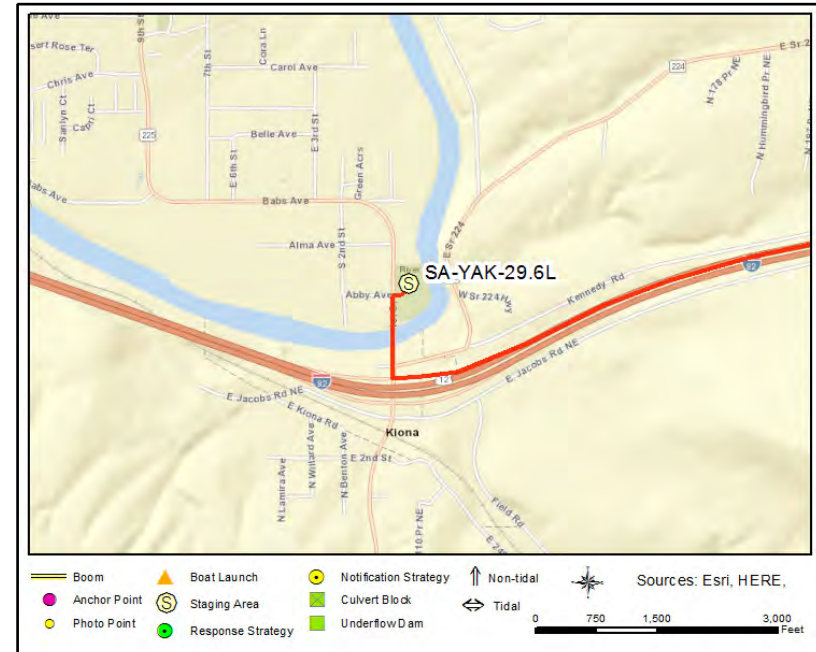
YAK-32.9L Photo: From Yakima River, looking downstream towards river left at side channel and island. Taken in early July.

Site Contact

No Information
Not Determined :

Nearest Address

101 Abby Ave
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Just Upstream of the Chandler Power Plant

YAK-35.95L

Position - Location: 46° 15.847', -119° 35.452' 46° 15' 50.8", -119° 35' 27.1" 46.26411, -119.59087 Benton City

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using hand launch workboat, secure end of 300 ft of boom mid-channel, at/near Point A (46.26369, -119.590937). Extend boom downstream, securing it on shore, on the upstream side of the boat launch area, at/near Point B (46.264487, -119.590962). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point B, area is inaccessible for vac truck.

Staging Area: Onsite : Stage onsite at SA-YAK-35.95L, just upstream of the Chandler Power Plant

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-35.95L, may need to hand launch depending on water level. Flat gravel road to shore. Depending on water level a small trailer may be usable, flat sandy bottom near shore. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 10.95 miles downstream of the Chandler Diversion Dam

Resources at Risk: General Fish and Wildlife Resources, Power Generation, Recreational Shoreline Area



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
2 Each	Heaving Line(s)
300 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-35.95L Photo: View of anchor point A for YAK-35.95L just upstream of the Chandler Power Plant

Site Contact

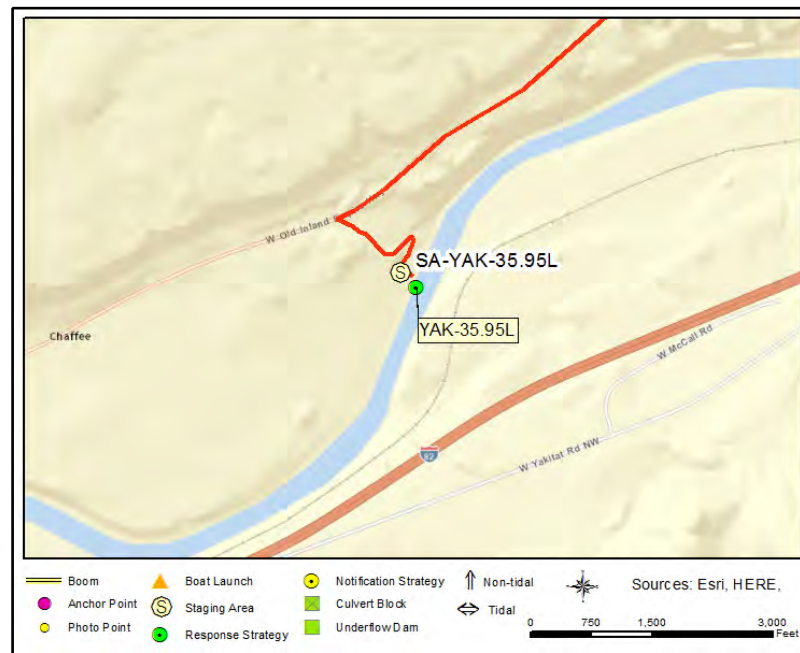
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

47400 W Old Inland Empire Hwy
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK35.95L/BL-YAK-35.95L) Upstream of Chandler Power Plant

1. Head west from West Pasco on I-82 W to Yakima
2. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (4.5 miles)
10. Half a mile before 47400 W Old Inland Empire Hwy turn left on gravel drive for Chandler Power Plant. After 90 degree turn, take the 1st right on dirt track. Go straight until the track dead ends at a T intersection; turn left and head toward the river.
11. Finish just up from the Chandler Power Plant on Old Inland Empire Hwy, Benton City, WA 99320

Side channel near W 119 Pr NW

YAK-41.9L

Position - Location: 46° 13.844', -119° 40.717' 46° 13' 50.6", -119° 40' 43.0" 46.23073, -119.67861 Prosser

Strategy Objective: Deflection : Keep oil away from entrance to side channel on river left

Implementation: Using workboat, secure end of 200 ft of boom to shore on river left at/near Point A (46.23067, -119.67884). Extend boom downstream, across the backwater channel, securing it on shore on river left at/near Point B (46.76208, -119.67833). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

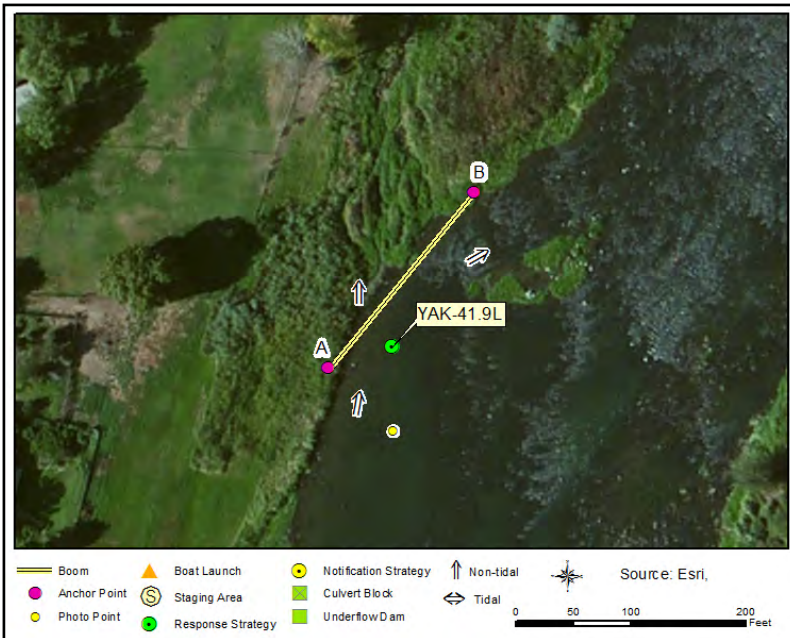
Staging Area: Remote : Stage at SA-YAK-46.5, Prosser Wastewater Treatment Plant Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch. Call City of Prosser at 509-786-2332 to gain access. In low water conditions, may need to hand launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 5 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
200 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

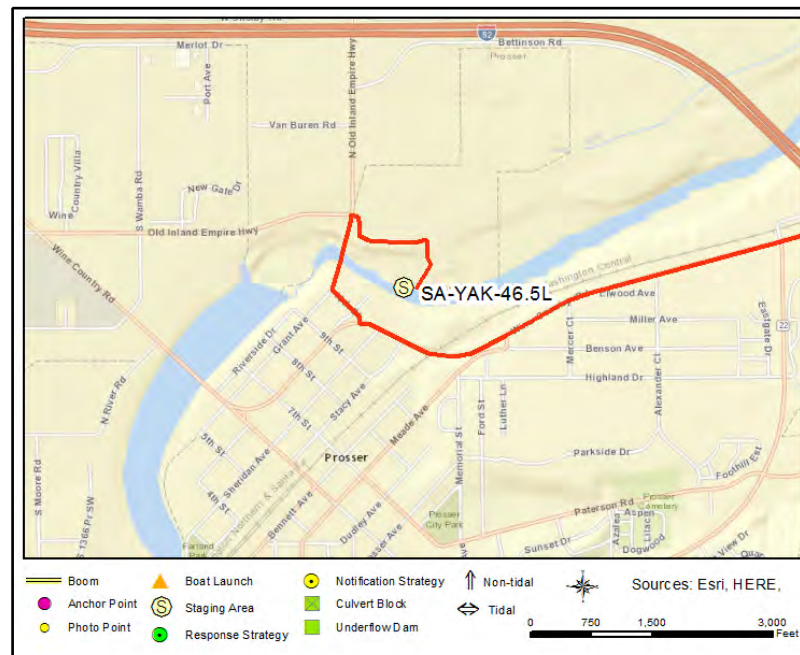
1	Boat Operator
2	Laborer
1	Supervisor

Side channel near W 119 Pr NW

YAK-41.9L



YAK-41.9L Photo: From Yakima River, looking N downstream at river left. Side channel entrance is to the right of plastic chair. Taken early July.



Site Contact

City of Prosser

Primary Contact : City Dispatch (Wastewater Treatment Facility)

Prosser, WA 99350
509-786-2332

Nearest Address

999 Grande Rd
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA99350.

Side Channel near Chandler Canal

YAK-42.9L

Position - Location: 46° 13.454', -119° 41.716' 46° 13' 27.2", -119° 41' 42.9" 46.22423, -119.69526 Prosser

Strategy Objective: Deflection : Keep oil away from entrance to side channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to shore on river left at/near Point A (46.2245, -119.69588). Extend boom downstream, to mid-channel, securing it off shore at/near Point B (46.22404, -119.69489). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

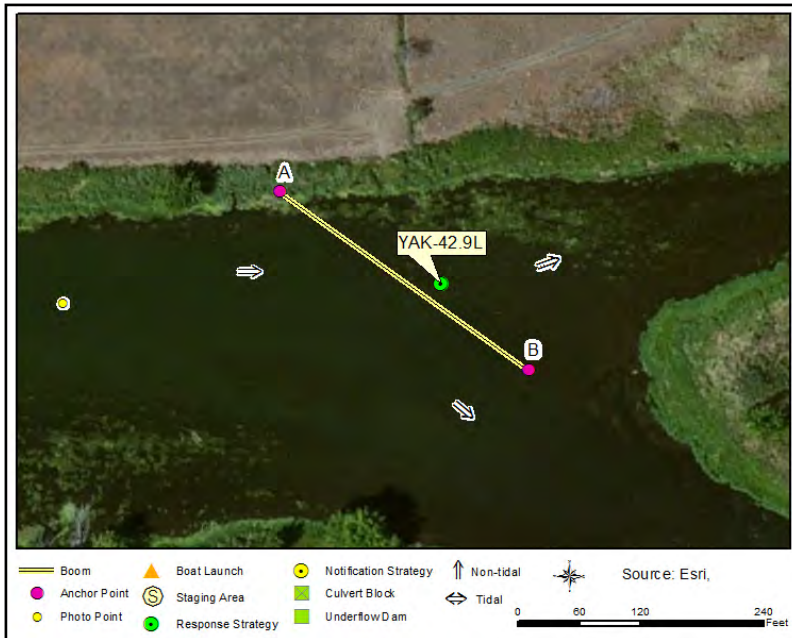
Staging Area: Remote : SA-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch. Call City of Prosser at 509-786-2332 to gain access. In low water conditions, may need to hand launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 4 miles downstream of the Prosser Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

4 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
300 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

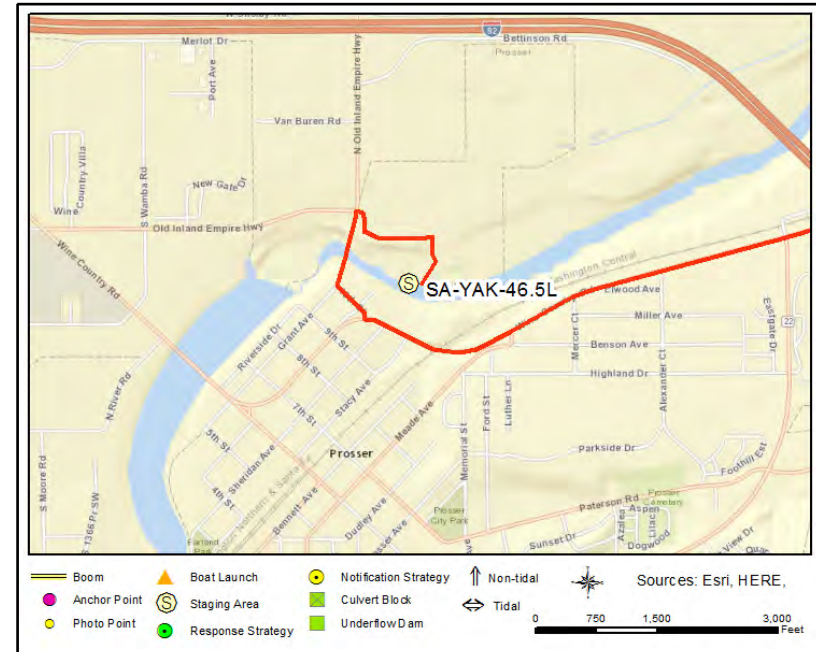
1	Boat Operator
2	Laborer
1	Supervisor

Side Channel near Chandler Canal

YAK-42.9L



YAK-42.9L Photo: From Yakima River, looking downstream at side channel entrance on river left. Taken in early July.



Site Contact

City of Prosser

Primary Contact : City Dispatch (Wastewater Treatment Facility)
509-786-2332

Nearest Address

999 Grande Rd
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA99350.

Yakama Nation Fish Hatchery

YAK-46.2L

Position - Location: 46° 12.827', -119° 45.552' 46° 12' 49.6", -119° 45' 33.1" 46.21378, -119.75920 Prosser

Strategy Objective: Exclusion : Keep oil out of fish hatchery water intake on river left.

Implementation: Secure end of 100 ft of boom to shore on river left at/near Point A (46.21372, -119.759364). Extend boom downstream, across ditch, securing it on shore on river left at/near Point B (46.213835, -119.758995). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Onsite : Dirt/gravel road access to the river through hatchery property.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Submerged Hazard; Uneven Ground; Heavy Vegetation

Field Notes: Call Yakama Nation Hatchery Manager at 509-945-5899 to gain access to hatchery property. Contact the Yakima Nation at 509-945-2939 if working on tribal land. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 0.7 miles below the Chandler Diversion Dam. Yakima River has extreme variability in seasonal flow.

Resources at Risk: Fish Hatchery



Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B2 (Contractor Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Winch - Come-A-Long

Recommended Personnel

2	Laborer
1	Supervisor



YAK-46.2L Photo: Looking south along canal toward centerpoint of strategy. Photo taken in June.

Site Contact

Yakama Indian Nation Fish Hatchery

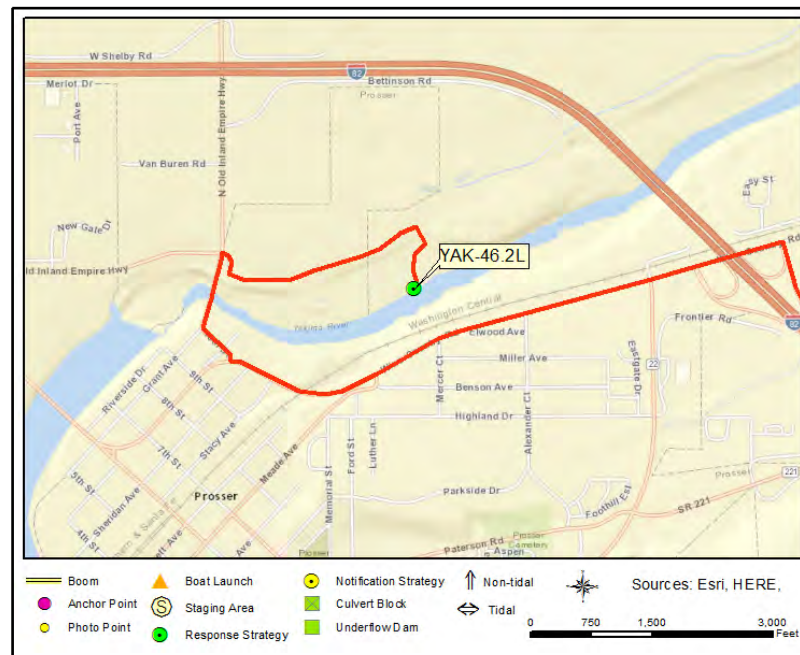
Land/Property Contact : Hatchery Managers
509-945-5899

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

999 Grande Rd
Prosser, WA 99350



Driving Directions

1. Head west from Richland go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
2. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
3. Turn left on Wine Country Rd (WA-22) (1.38 miles)
4. Turn right on 10th St (0.1 miles)
5. Turn right on Grant Ave (0.18 miles)
6. Turn right on Grande Rd (0.5 miles)
7. Drive toward the ENE until you reach the Yakama Nation Fish Hatchery, turn right into the facility and take the second gravel road on the right continue until you reach the river near 46.21372, -119.759364

Wine Country Road Bridge

YAK-47.2R

Position - Location: 46° 12.591', -119° 46.555' 46° 12' 35.5", -119° 46' 33.3" 46.20985, -119.77591 Prosser

Strategy Objective: Deflection : Keep oil away from sensitive resources on river right

Implementation: Using workboat, secure end of 300 ft of boom to shore on river right, at the Wine Country Road Bridge, at/near Point A (46.20938, -119.77594). Extend boom downstream, securing it mid-channel, at/near Point B (46.21019, -119.77576). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-47.65R, Riverfront Park

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-47.65R, Riverfront Park Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 0.3 miles upstream of the Chandler Diversion Dam.

Resources at Risk: Economic Resource, Sensitive Resources



Recommended Equipment

4 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Wine Country Road Bridge

YAK-47.2R



YAK-47.2R Photo: Looking NW from eastern side of bridge toward anchor point A.

Site Contact

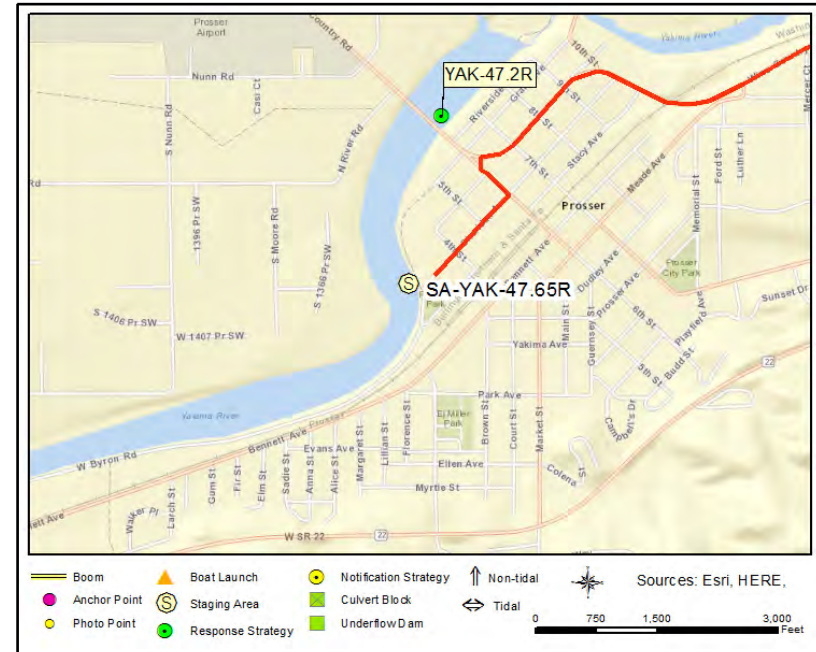
City of Prosser

Municipality (County/City) : Parks and Recreation

Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK47.65R/BL-YAK47.65R) Riverfront Park Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.

Riverfront Park boat launch

YAK-47.65R

Position - Location: 46° 12.238', -119° 46.643' 46° 12' 14.3", -119° 46' 38.6" 46.20396, -119.77738 Prosser

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River at river right

Implementation: Using workboat, secure end of 600 ft of boom to river left at/near Point A (46.2029, -119.7786). Extend boom downstream, securing mid-channel, at/near Point B (46.203179, -119.777772). Then extend remaining boom downstream, securing it upstream of launch, at/near Point C (46.203941, -119.777126). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at Point C.

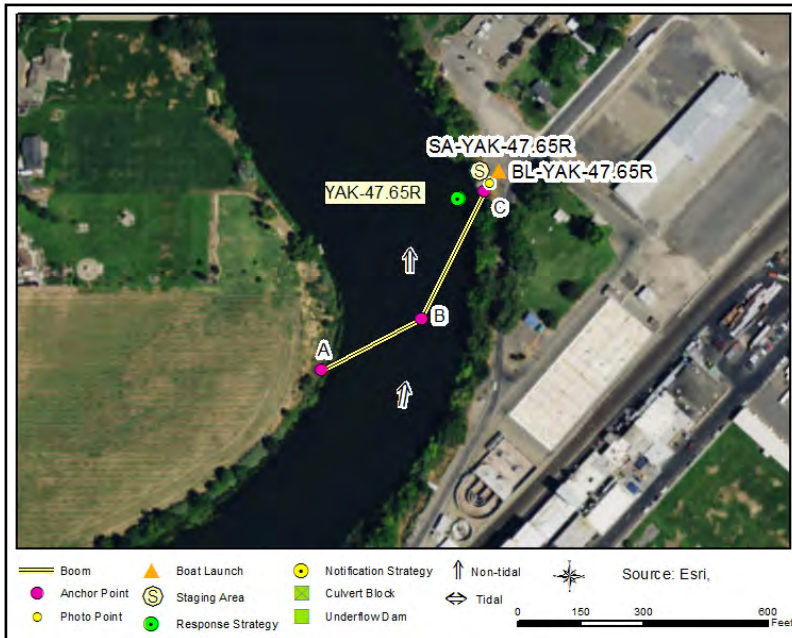
Staging Area: Onsite : Stage at SA-YAK-47.65R, Riverfront Park

Site Safety: Public Access; Boat/Vehicle/Pedestrian Traffic; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-47.65R, Riverfront Park Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 0.75 miles above the Chandler Diversion Dam

Resources at Risk: City Park, Recreational Use Area, Sensitive Resources



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

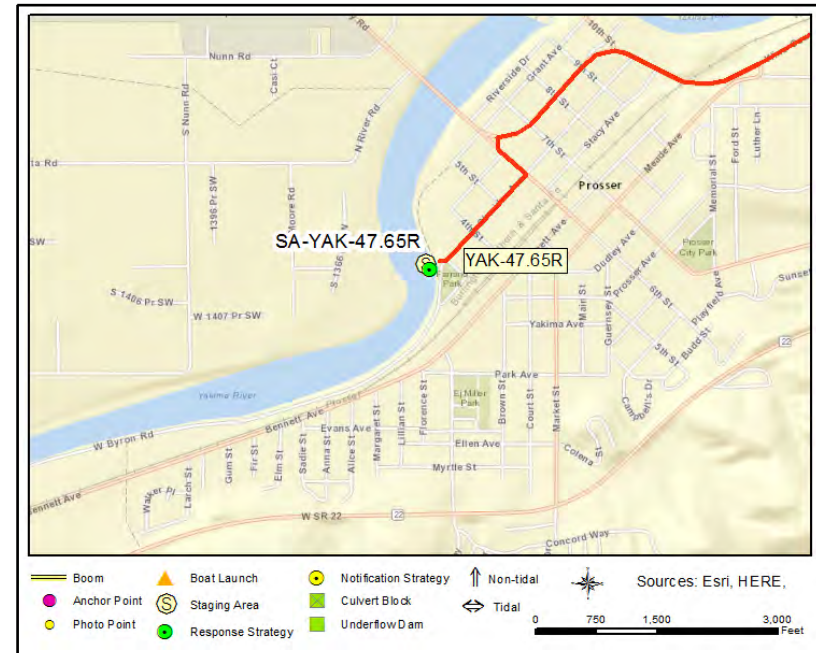
1	Boat Operator
3	Laborer
1	Supervisor

Riverfront Park boat launch

YAK-47.65R



YAK-47.65R Photo: View of YAK-47.65R's anchor point A next to the Boat Launch at Riverside Park



Site Contact

City of Prosser

Land/Property Contact : Parks and Recreation

Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK47.65R/BL-YAK47.65R) Riverfront Park Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.

Side Channel Inlet Near Euclid Bridge

YAK-55.3M

Position - Location: 46° 13.051', -119° 55.216' 46° 13' 3.1", -119° 55' 12.9" 46.21752, -119.92026 Mabton

Strategy Objective: Exclusion : Keep oil out of entrance to side channel on river right

Implementation: Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.21763, -119.92041). Extend boom downstream, securing across the side channel, and securing it on river right at/near Point B (46.21748, -119.92008). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-59.8, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 2.9 miles above the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Side Channel Inlet Near Euclid Bridge

YAK-55.3M



YAK-55.3M Photo: From Yakima River, looking SE at river right. Entrance to side channel is behind sandy slope. Taken in early July.

Site Contact

No Information

Not Determined :

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK--59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.

Side Channel Near Euclid Bridge

YAK-55.4R

Position - Location: 46° 13.129', -119° 55.342' 46° 13' 7.7", -119° 55' 20.5" 46.21881, -119.92236 Mabton

Strategy Objective: Deflection : Deflect oil away from entrance to side channel on river right

Implementation: Using workboat, secure end of 300 ft of boom to shore on river right upstream of side channel, at/near Point A (46.219, -119.92284). Extend boom downstream, securing it to the left side of the island at/near Point B (46.2185, -119.92189). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

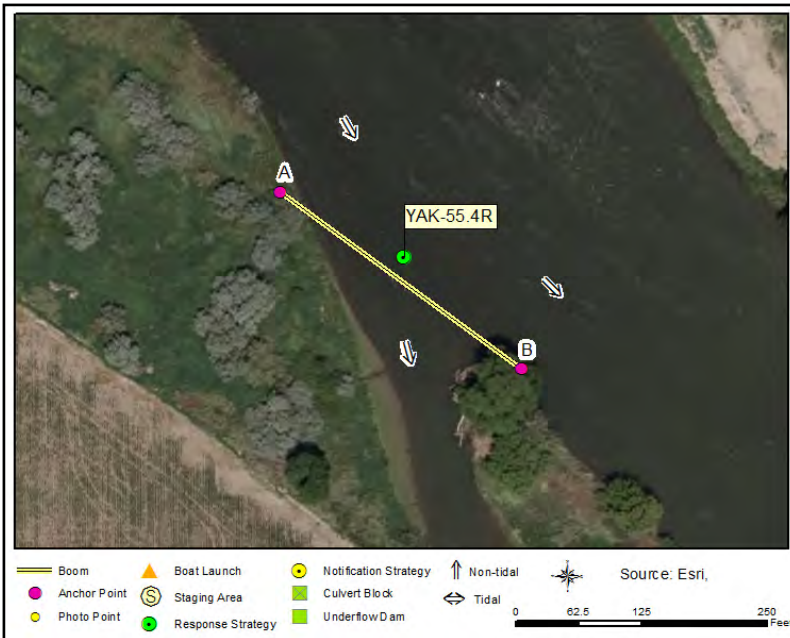
Staging Area: Remote : Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-59.8L, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 8.5 miles upstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Side Channel Near Euclid Bridge

YAK-55.4R



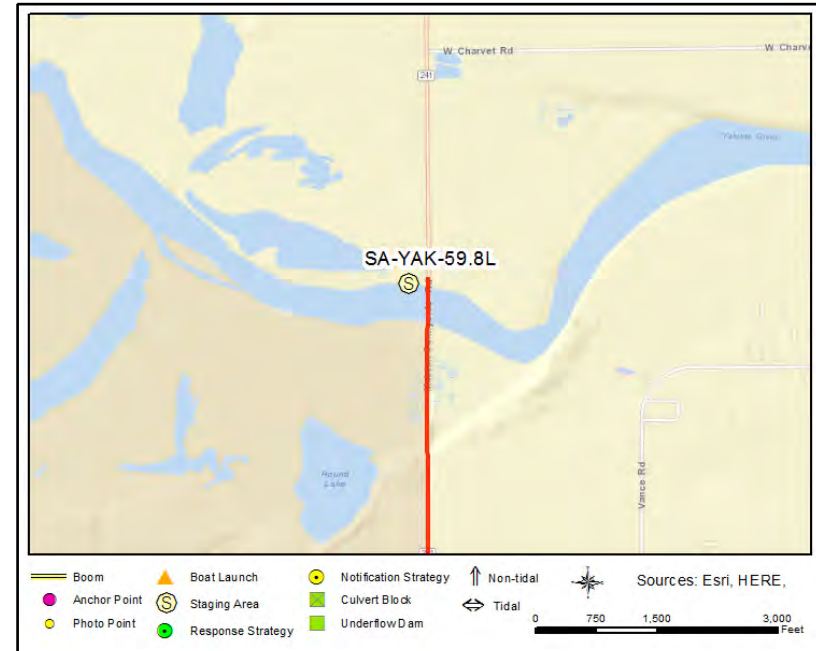
YAK-55.4R Photo: From Yakima River, looking S at side channel on river right. Entrance is to the right of large tree. Photo taken early July.

Site Contact

No Information
Not Determined :

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

1. Head west from Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on WA-22 (Wine Country Rd) (0.32 miles)
5. Turn left at Wine Country Rd / Chapman Ln to stay on WA-22 toward WA-221 / Mabton / Paterson (13.33 miles)
6. Make sharp right on Reservation St (WA-241) (0.23 miles)
7. Continue on 1st Ave (WA-241) (0.26 miles)
8. Continue on Mabton-Sunnyside Rd (WA-241) (0.96 miles)
9. Turn left into the parking lot. Finish at 6901 Mabton-Sunnyside Rd, 98935, on the left.

Mabton Bridge boat launch

YAK-59.8L

Position - Location: 46° 13.911', -119° 59.997' 46° 13' 54.7", -119° 59' 59.8" 46.23185, -119.99995 Mabton

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 700 ft of boom to river right at/near Point A (46.23097, -120.0021). Extend boom downstream, securing mid-channel, at/near Point B (46.2315, -120.0017). Then extend remaining boom downstream, securing it upstream of the boat launch, at/near Point C (46.23203, -120.0). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at Point C

Staging Area: Onsite : SA-YAK-59.8L, Mabton Bridge Boat Launch

Site Safety: Public Access Site; Boat/Vehicle/Pedestrian Traffic; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-59.8L, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flows

Watercourse: River - Above a Dam - Yakima River, 12.9 miles upstream of the Chandler Diversion Dam

Resources at Risk: Boat Launch/Ramp, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, State Protected Area/Lands, Waterfowl and



Recommended Equipment

9 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
700 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Mabton Bridge boat launch

YAK-59.8L



YAK-59.8L Photo: View of the Mabton Rd boat launch, location of anchor point A for YAK-59.8L

Site Contact

WDFW Region 3 South Central

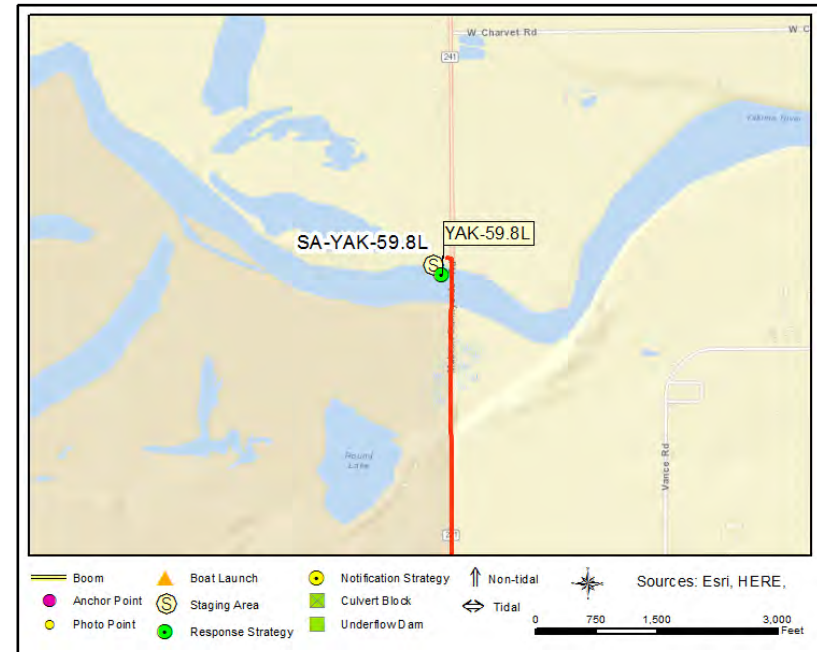
Land/Property Contact : Management agency for water access site
509-575-2740

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK--59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.

Mabton West Lateral Drain

YAK-60.2R

Position - Location: 46° 13.922', -120° .494' 46° 13' 55.3", -120° 0' 29.6" 46.23203, -120.00823 Mabton

Strategy Objective: Collection : Collect oil moving downstream on Mabton West Lateral Drain before it enters the Yakima River

Implementation: Using workboat, secure end of 100 ft of boom to bank on river right at/near Point A (46.23207, -120.00855,). Extend boom downstream across the ditch, securing it at/near Point B (46.2319, -120.00824,). Use shoreside anchoring systems or existing features to secure boom to banks. Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection.

Staging Area: Remote : Stage at SA-YAK-59.8L Mabton Bridge

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Launch at BL-YAK-59.8L Mabton Bridge Boat Launch single gravel ramp, 4 degree grade. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 13.3 miles upstream of the Chandler Diversion Dam

Resources at Risk: Bird Habitat, Creek Habitat, Great Blue Heron Rookeries, Sensitive Resources Nearby



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Mabton West Lateral Drain

YAK-60.2R



YAK-60.2R Photo: From Yakima River, looking SW at river right at side channel entrance.

Site Contact

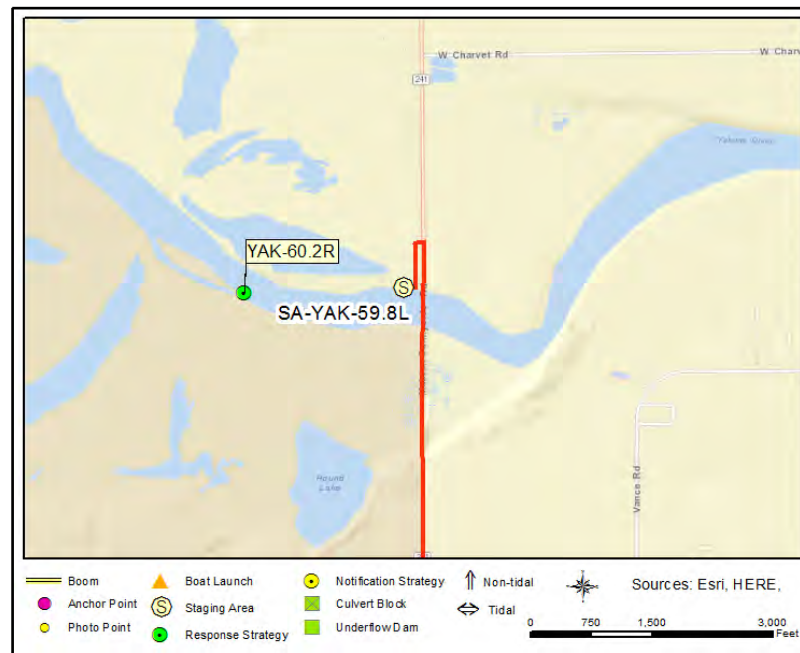
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

DRIVING DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L)

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 mi (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.

Horseshoe Lake Entrance

YAK-60.45R

Position - Location: 46° 14.047', -120° .766' 46° 14' 2.8", -120° 0' 46.0" 46.23412, -120.01277 Mabton

Strategy Objective: Exclusion : Keep oil out of the entrance to Horseshoe Lake on river right

Implementation: Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.23406, -120.01284). Extend boom downstream, across the entrance to Horseshoe Lake, securing it on river right at/near Point B (46.234038, -120.012741). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions

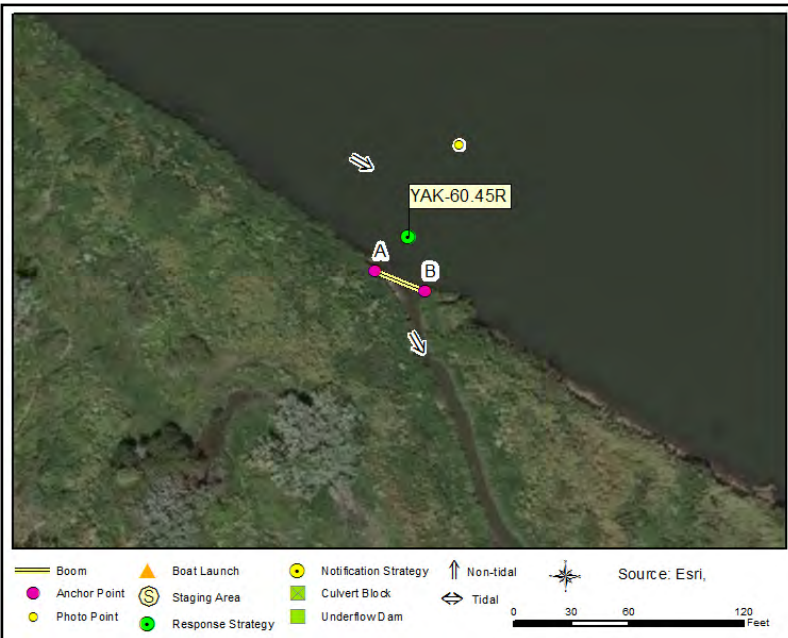
Staging Area: Remote : Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-59.8L, Mabton Bridge Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 43.4 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Bird Habitat, Great Blue Heron Rookeries, Wintering Waterfowl



Recommended Equipment

2 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
100 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Horseshoe Lake Entrance

YAK-60.45R



YAK-60.45R Photo: On Yakima River looking SW to strategy location on river right.

Site Contact

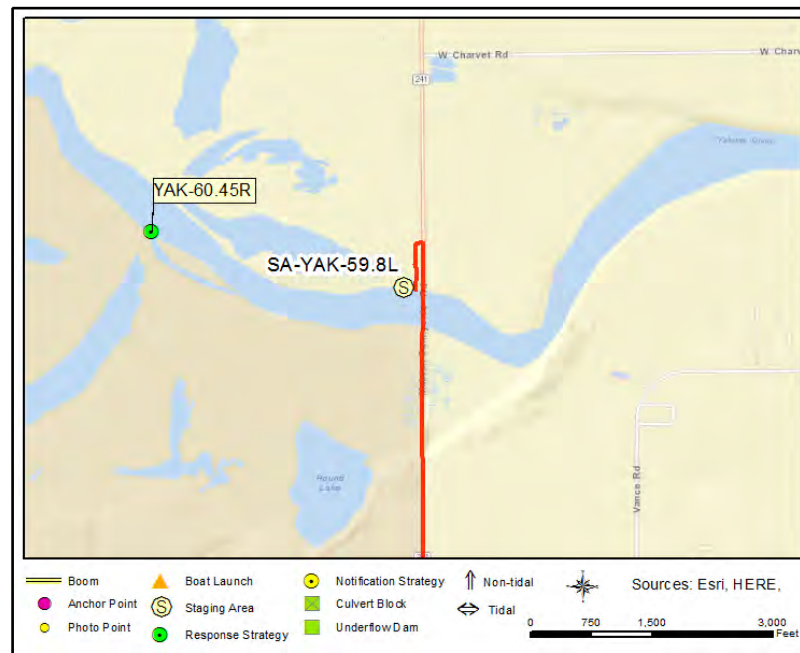
Yakama Nation

Primary Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK--59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.

Sunnyside Wildlife Recreation Area Canal

YAK-61.2L

Position - Location: 46° 14.307', -120° 1.453' 46° 14' 18.4", -120° 1' 27.2" 46.23845, -120.02421 Mabton

Strategy Objective: Collection : Keep oil from exiting canal that connects the Sunnyside Wildlife Recreation Area with the Yakima River

Implementation: Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.23846, -120.02429). Extend boom downstream, across the canal, securing it on river left at/near Point B (46.238473, -120.024198). Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection. . Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

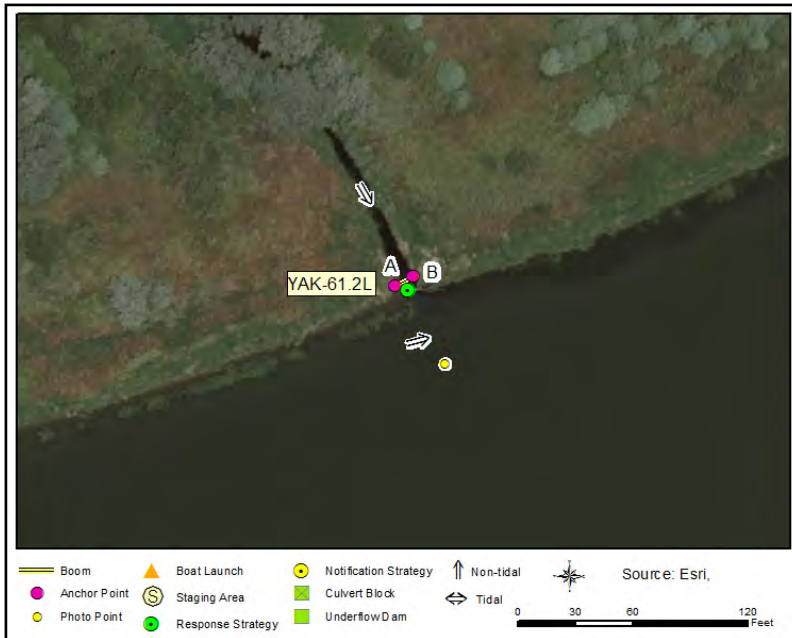
Staging Area: Remote : Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

Site Safety: Slips, Trips Falls; Water Hazard; Snakes/Wildlife; Heavy Vegetation

Field Notes: Launch at BL-YAK-59.8L, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 42.7 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations



Recommended Equipment

2 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Sunnyside Wildlife Recreation Area Canal

YAK-61.2L



YAK-61.2L Photo: On Yakima River looking NNW to strategy location on river left.

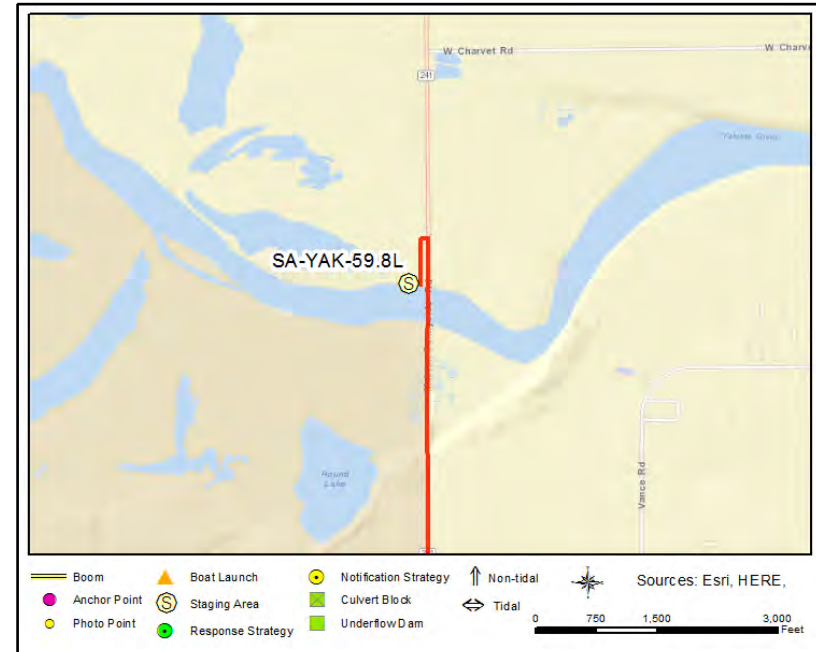
Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK--59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakima River) take left onto dirt road that leads to staging area/boat launch.

Horseshoe Pond Drain

YAK-63.8L

Position - Location: 46° 14.862', -120° 3.695' 46° 14' 51.7", -120° 3' 41.7" 46.24770, -120.06158 Mabton

Strategy Objective: Collection : Collect oil moving downstream on the canal from Horseshoe Pond to the Yakima River

Implementation: Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.2478, -120.0617). Extend boom downstream, across the canal coming out of the Horseshoe Pond, securing it on river left at/near Point B (46.24778, -120.06155). Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection. . Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 40.05 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations



Recommended Equipment

2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-63.8L Photo: On Yakima River looking north to strategy location on river left.

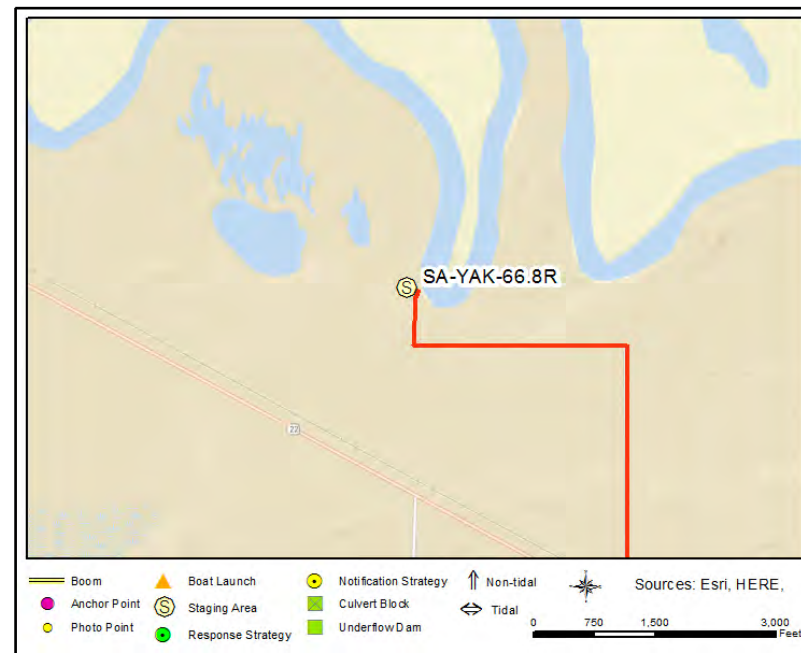
Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

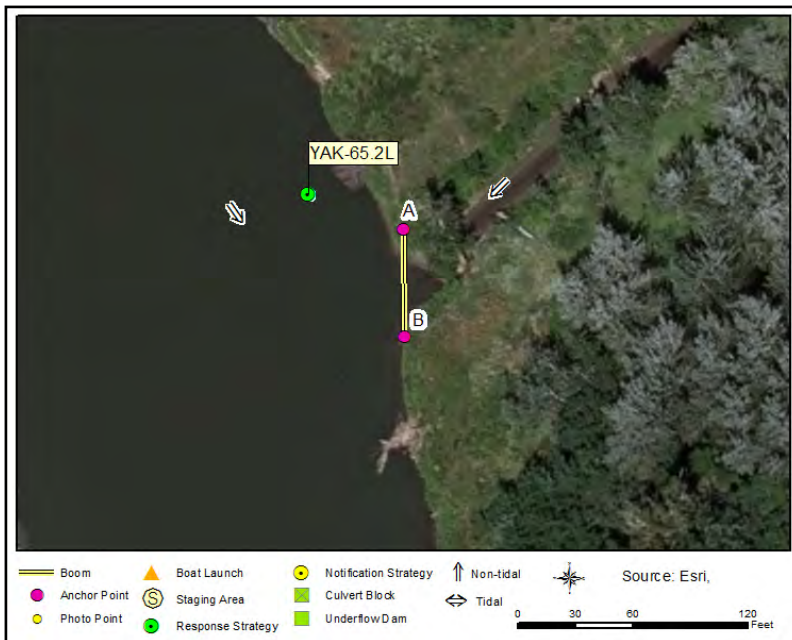
DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Bounds Pond Canal

YAK-65.2L

Position - Location:	46° 15.136', -120° 4.546'	46° 15' 8.1", -120° 4' 32.7"	46.25226, -120.07576	Mabton
Strategy Objective:	Collection : Collect oil moving downstream on the canal between Bounds Pond and the Yakima River			
Implementation:	Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.25221, -120.07558). Extend boom downstream, across the canal coming out of the Bounds Pond, securing it on river left at/near Point B (46.25206, -120.07558). Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection. . Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.			
Staging Area:	Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.			
Site Safety:	Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation			
Field Notes:	Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.			
Watercourse:	River - Below a Dam - Yakima River, 38.65 miles downstream of the Sunnyside Diversion Dam			
Resources at Risk:	Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat			



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-65.2L Photo: On Yakima River looking SE to strategy location on river left.

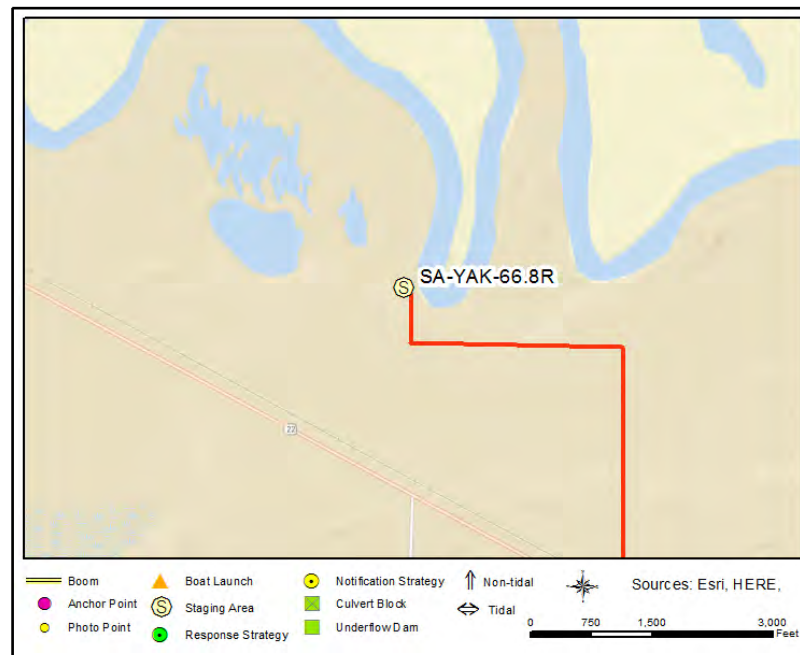
Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Unnamed Pond Entrance

YAK-65.7L

Position - Location: 46° 15.329', -120° 5.113' 46° 15' 19.8", -120° 5' 6.8" 46.25549, -120.08522 Mabton

Strategy Objective: Exclusion : Keep oil out of entrance to unnamed pond on river left

Implementation: Using workboat, secure end of 100 ft of boom to river left at/near Point A (46.2554, -120.08526). Extend boom downstream, securing it inside entrance to pond, at/near Point B (46.25546, -120.024198). Then extend remaining boom downstream, securing it to the opposite side of the entrance, at/near Point C (46.25556, -120.08512). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 38.15 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

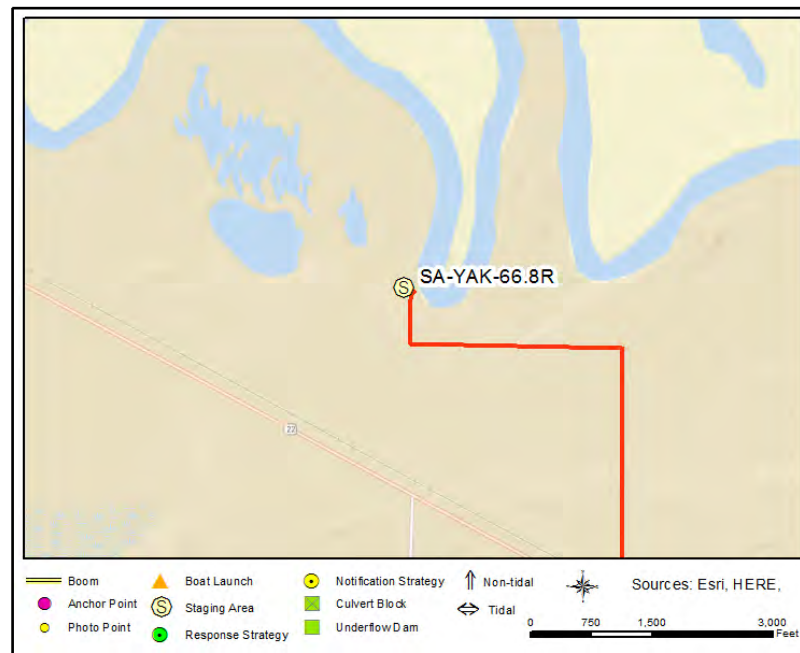
1	Boat Operator
2	Laborer
1	Supervisor

Unnamed Pond Entrance

YAK-65.7L



YAK-65.7L Photo: View of the entrance to the pond where YAK-65.7L is to be deployed



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

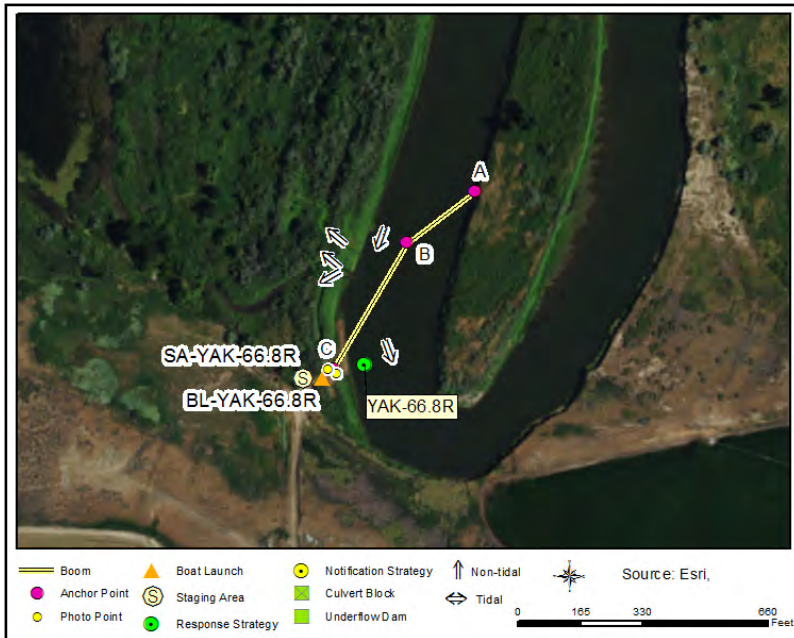
DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Bond Road Primitive Boat Launch.

YAK-66.8R

Position - Location:	46° 14.572', -120° 4.981'	46° 14' 34.3", -120° 4' 58.9"	46.24287, -120.08302	Mabton
Strategy Objective:	Collection : Collect oil moving downstream on the Yakima River on river right			
Implementation:	Using workboat, secure end of 600 ft of boom to river left at/near Point A (46.24395, -120.08195). Extend boom downstream, securing it mid-channel, at/near Point B (46.24377, -120.08258). Then extend remaining boom downstream, securing to launch area, at/near Point C (46.24283, -120.08337). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point C.			
Staging Area:	Onsite : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.			
Site Safety:	Water Hazard; Slips, Trips, Falls; Heavy Vegetation			
Field Notes:	Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.			
Watercourse:	River - Below a Dam - Yakima River, 37.05 miles downstream of the Sunnyside Diversion Dam			
Resources at Risk:	Backwater Habitat, Great Blue Heron Rookeries, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetland			



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
600 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

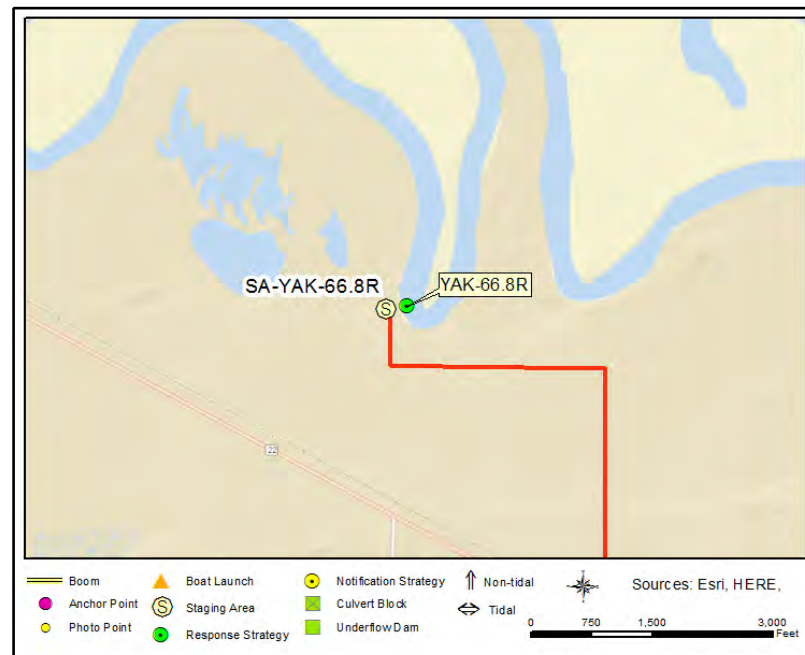
1 Boat Operator
3 Laborer
1 Supervisor

Bond Road Primitive Boat Launch.

YAK-66.8R



YAK-66.8R Photo: View of YAK-66.8R anchor A and upstream at the Bond St primitive boat launch



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948

509-945-2939

Nearest Address

Bond Rd
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Backwater Near Bond Road Primitive Boat Launch

YAK-66.85R

Position - Location:	46° 14.615', -120° 4.982'	46° 14' 36.9", -120° 4' 58.9"	46.24358, -120.08304	Mabton
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Strategy Objective: Exclusion : Keep oil out of entrance to backwater area on river right

Implementation:	Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.243758, -120.08318). Extend boom downstream, across the three channels, securing it on river right at/near Point B (46.24352, -120.083309). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.
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Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 37 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations



Recommended Equipment

1	Each	Anchor - Danforth (or other appropriate type)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

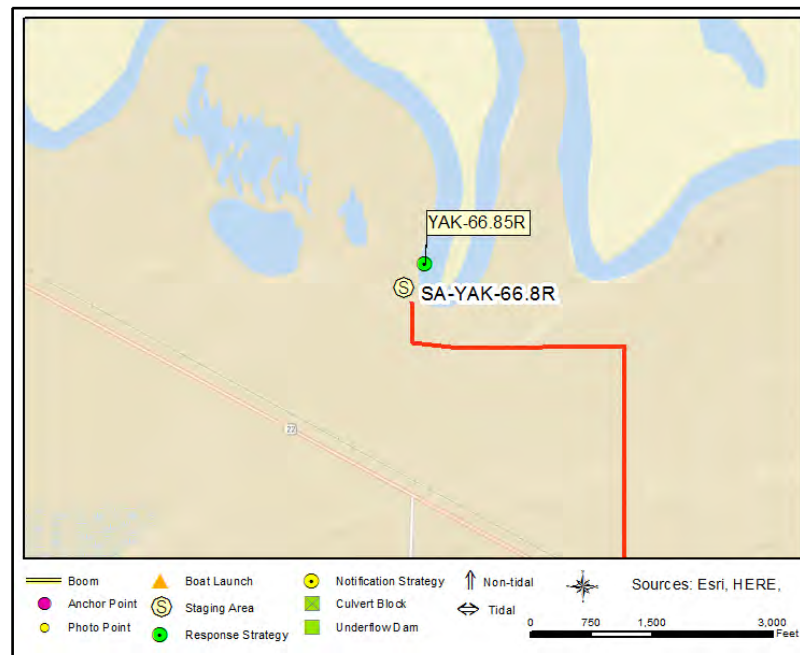
1	Boat Operator
2	Laborer
1	Supervisor

Backwater Near Bond Road Primitive Boat Launch

YAK-66.85R



YAK-66.85R Photo: View of the back water entrance by Bond Rd Boat Launch



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Backwater area downstream of South Drain

YAK-69.0R

Position - Location: 46° 15.373', -120° 6.242' 46° 15' 22.4", -120° 6' 14.5" 46.25622, -120.10403 Mabton

Strategy Objective: Exclusion : Keep oil out of the backwater area downstream of South Drain on river right

Implementation: Using workboat, secure end of 200 ft of boom to bank on river right at/near Point A (46.2563, -120.10443). Extend boom downstream across backwater channel, securing it mid-channel at/near Point B (46.2562, -120.1041). (Then extend remaining boom downstream, securing it at/near Point C (46.256005, -120.103976).). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

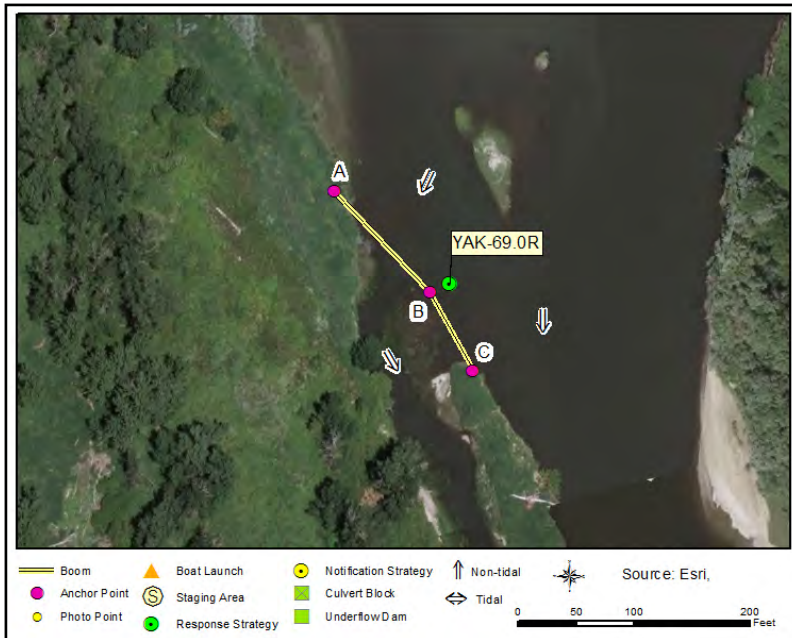
Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 22.1 miles upstream of the Chandler Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor



YAK-69.0R Photo: View looking downstream at the opening of the backwater channel downstream of the South Drain

Site Contact

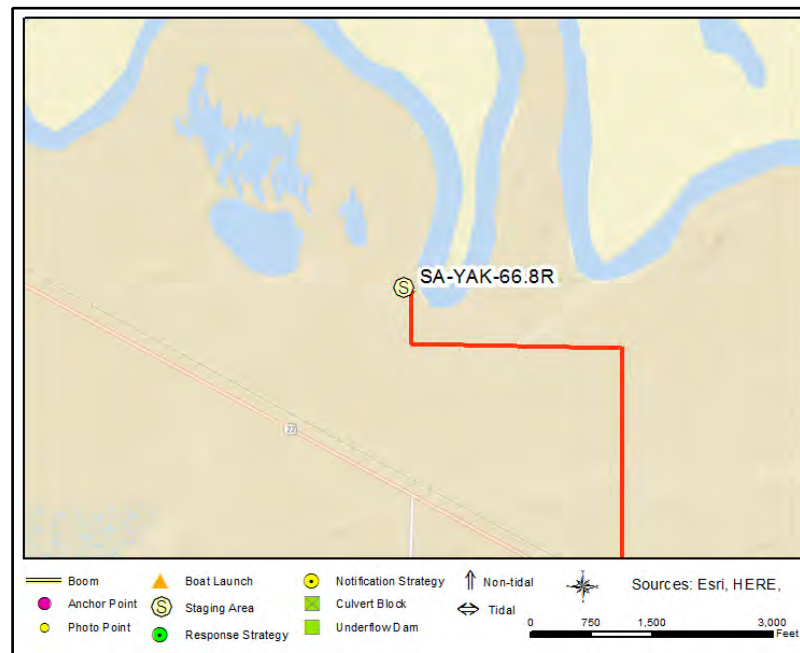
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

South Drain

YAK-69.3R

Position - Location: 46° 15.514', -120° 6.431' 46° 15' 30.9", -120° 6' 25.9" 46.25857, -120.10719 Mabton

Strategy Objective: Collection : Collect oil moving downstream on South Drain before it enters the Yakima River

Implementation: Using workboat, secure end of 100 ft of boom to bank on river right at/near Point A (46.258557, -120.107347,). Extend boom downstream across the ditch, securing it at/near Point B (46.258454, -120.10708). Use shoreside anchoring systems or existing features to secure boom to banks. Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection.

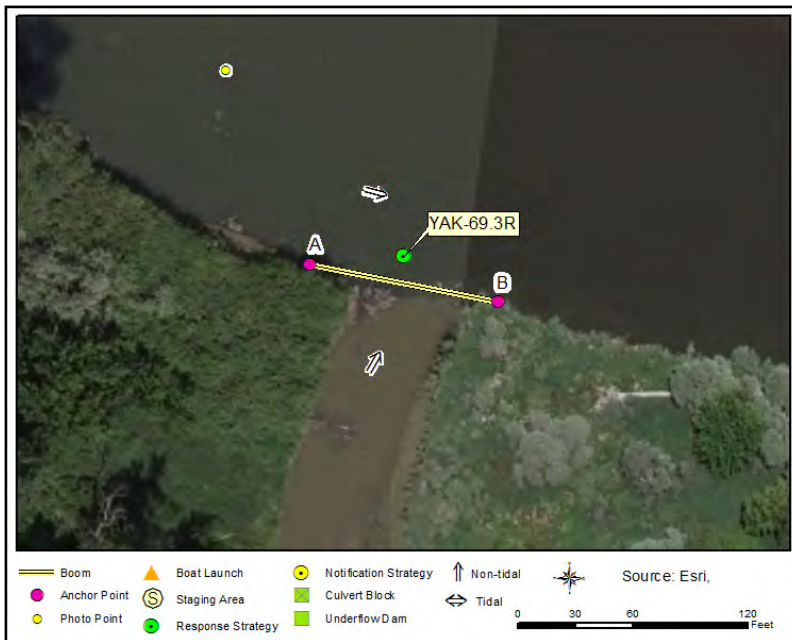
Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 22.4 miles upstream of the Chandler Diversion Dam

Resources at Risk: Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-69.3R Photo: Looking downstream at the outlet of Sotuh Drain where YAK-69.3R is to be deployed

Site Contact

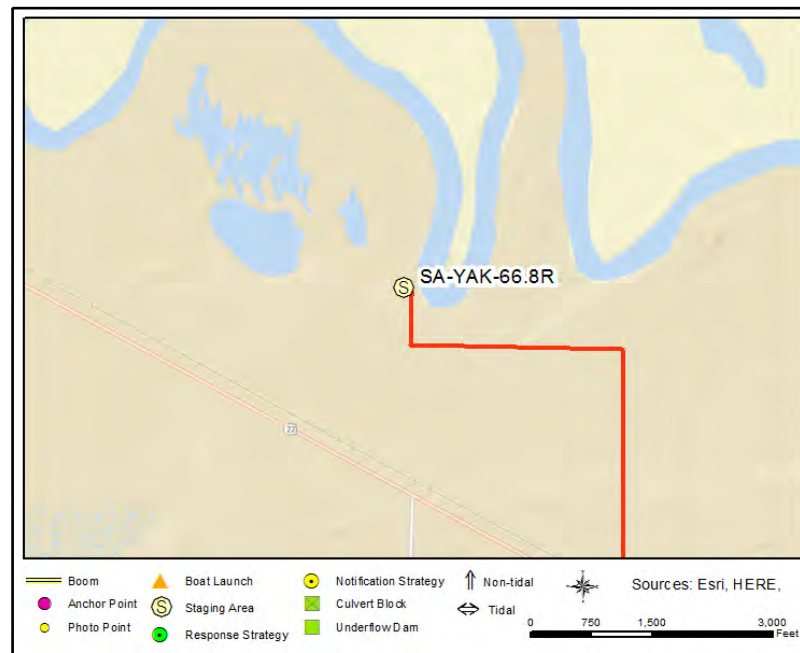
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Satus Creek

YAK-69.5R

Position - Location: 46° 15.682', -120° 6.644' 46° 15' 40.9", -120° 6' 38.7" 46.26137, -120.11074 Mabton

Strategy Objective: Collection : Collect oil moving downstream on Satus Creek before entering the Yakima River on river right

Implementation: Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.261682, -120.111219). Extend boom downstream, across the Satus Creek, securing it on river right at/near Point B (46.26123, -120.110772). Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

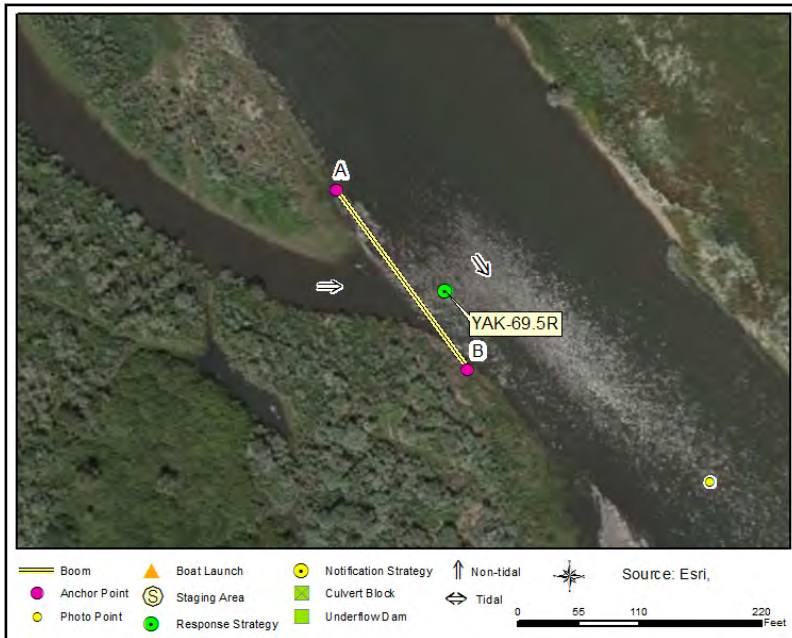
Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 34.35 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
200	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-69.5R Photo: View of the mouth of Satus Creek from downstream on the Yakima River

Site Contact

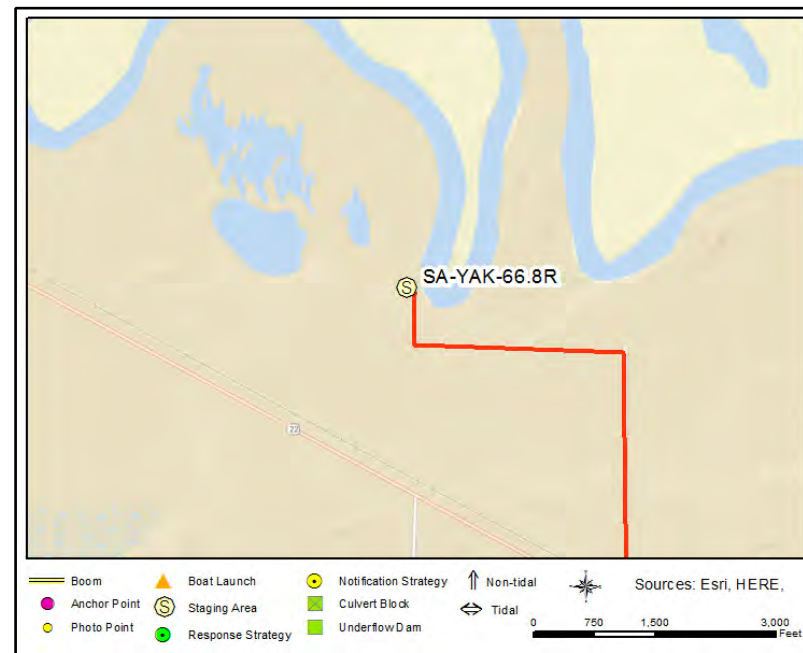
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

South Emerald Road Backwater Area

YAK-70.25L

Position - Location: 46° 15.856', -120° 6.233' 46° 15' 51.4", -120° 6' 14.0" 46.26427, -120.10388 Mabton

Strategy Objective: Exclusion : Keep oil away from entrance to side channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to river left at/near Point A (46.264394, -120.103368). Extend boom downstream in a chevron formation, securing it mid-channel, at/near Point B (46.264153, -120.103862). Then extend remaining boom downstream, securing it at/near Point C (46.26428, -120.10439). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

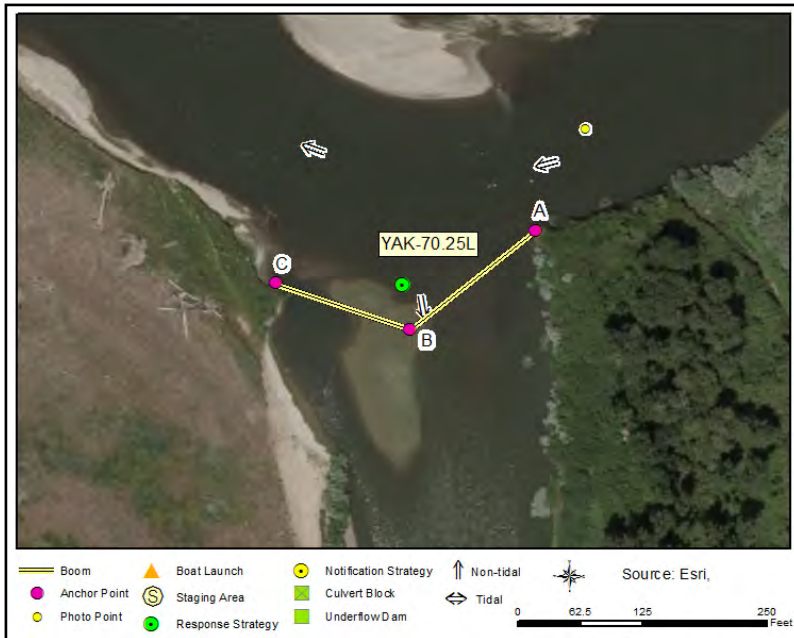
Staging Area: Remote : Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch and strategy are on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 33.6 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor



YAK-70.25L Photo: Downstream view of backwater channel on river left where YAK-70.25L is to be deployed

Site Contact

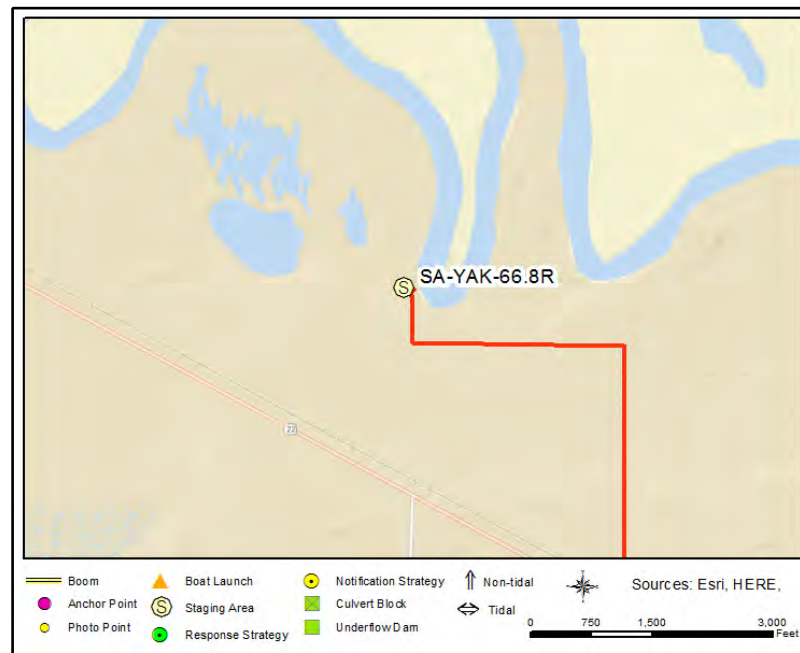
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Emerald Road Backwater Area

YAK-74.9L

Position - Location: 46° 17.819', -120° 5.981' 46° 17' 49.2", -120° 5' 58.8" 46.29699, -120.09968 Granger

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.297138, -120.099841). Extend boom downstream, across entrance to backwater area, securing it on river left at/near Point B (46.297054, -120.099431). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions

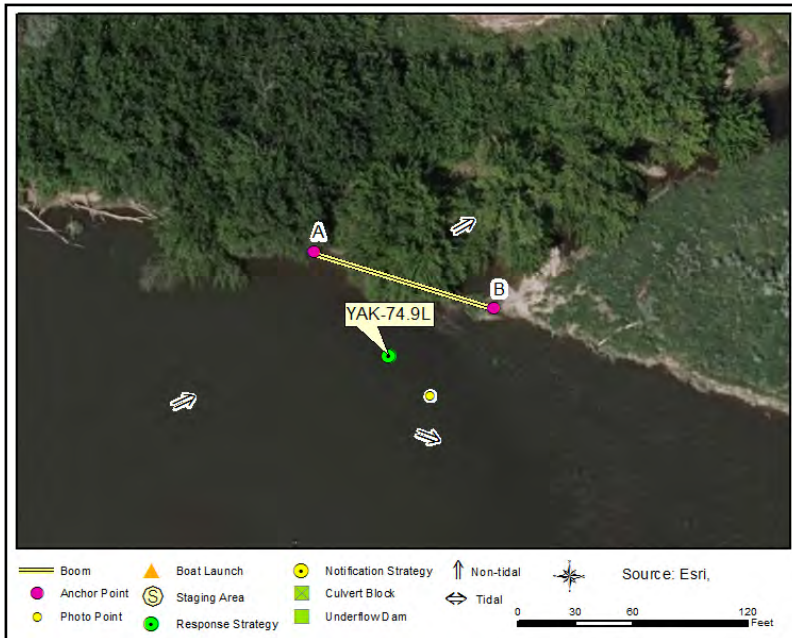
Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at YAK-82.8L, Granger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 28.95 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Emerald Road Backwater Area

YAK-74.9L



YAK-74.9L Photo: View looking into the mouth of the backwater channel near Emerald Road

Site Contact

Yakama Nation

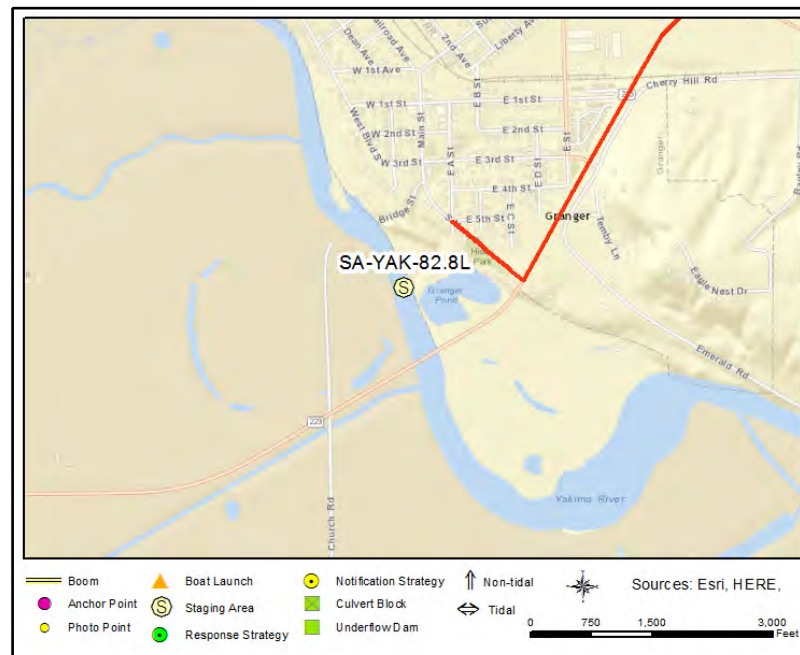
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Coulee Drain and Backwater Area

YAK-77.05R

Position - Location: 46° 17.785', -120° 7.510' 46° 17' 47.1", -120° 7' 30.6" 46.29641, -120.12516 Granger

Strategy Objective: Collection : Collect oil moving downstream on Coulee Drain before it enters the Yakima River and backwater channel on river right

Implementation: Using workboat, secure end of 100 ft of boom to bank on the left side of Coulee Drain at/near Point A (46.296449, -120.125474). Extend boom across the drain, securing it at/near Point B (46.296292, -120.125094.). Then extend remaining boom across the backwater channel or river right, securing it at/near Point C (46.296417, -120.124782.). Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust as needed, based on streamflow and environmental conditions.

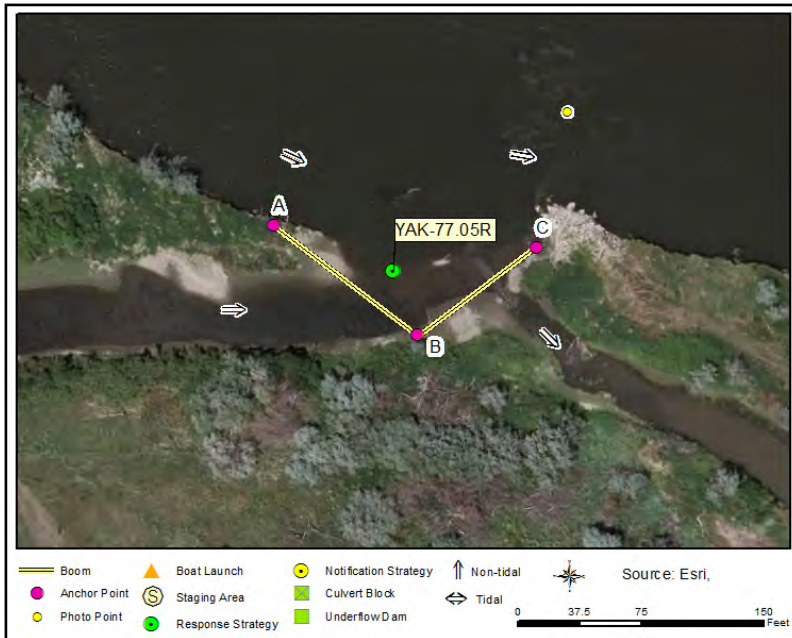
Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at YAK-82.8L, Granger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 26.8 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring Post(s) - (shoreside)
2 Each	Anchoring System(s) - (anchor, lines, floats)
200 Feet	Boom - B3 (River Boom) or equivalent
200 Feet	Boom - Sorbent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Coulee Drain and Backwater Area

YAK-77.05R



YAK-77.05R Photo: View of the Coulee Drain outlet with an inlet to a backwater area

Site Contact

Yakama Nation

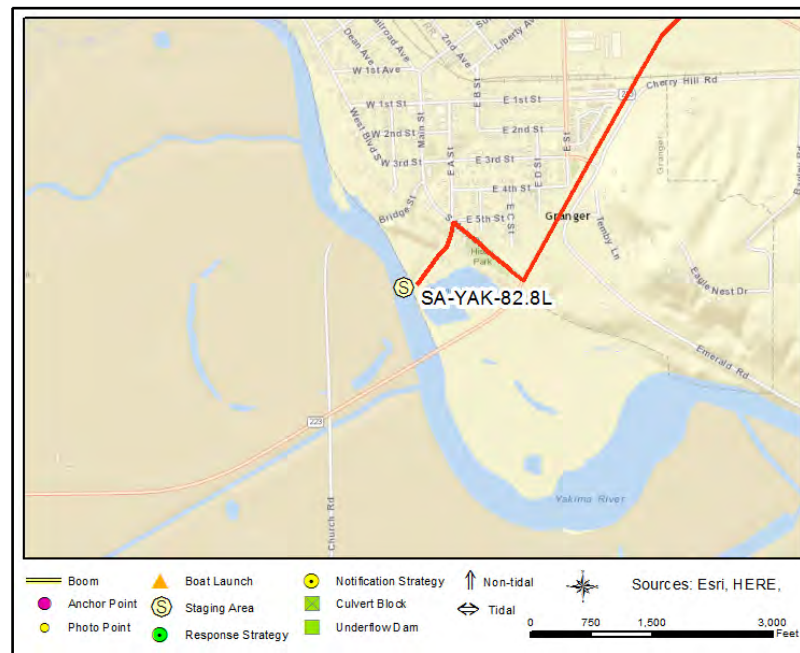
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Satus Longhouse Road backwater area

YAK-77.5R

Position - Location: 46° 18.279', -120° 7.787' 46° 18' 16.7", -120° 7' 47.2" 46.30465, -120.12979 Granger

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.304762, -120.129927). Extend boom downstream, across entrance to backwater area, securing it on river right at/near Point B (46.304522, -120.129838). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions

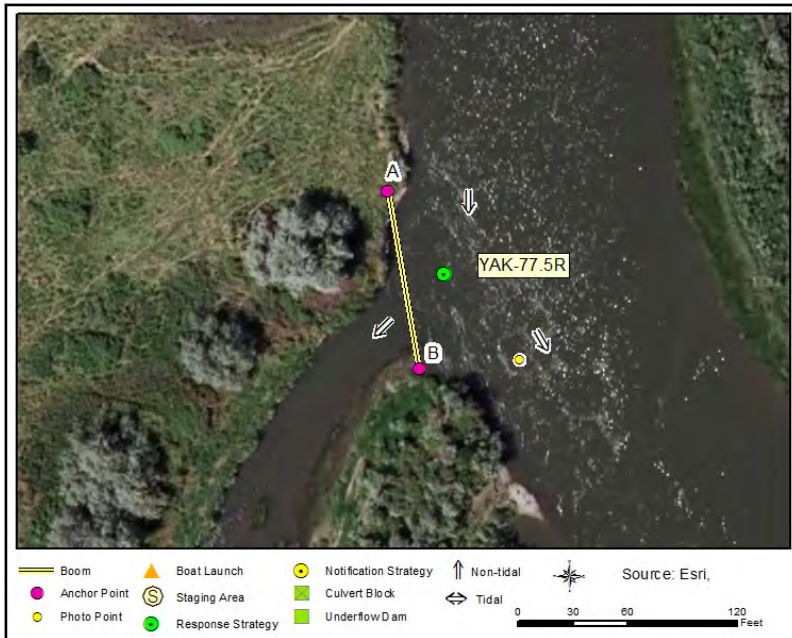
Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at YAK-82.8L, Granger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 26.35 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Satus Longhouse Road backwater area

YAK-77.5R



YAK-77.5R Photo: Slightly upstream view of the entrance to the Satus Longhouse Road backwater area where YAK-77.5R is to be deployed

Site Contact

Yakama Nation

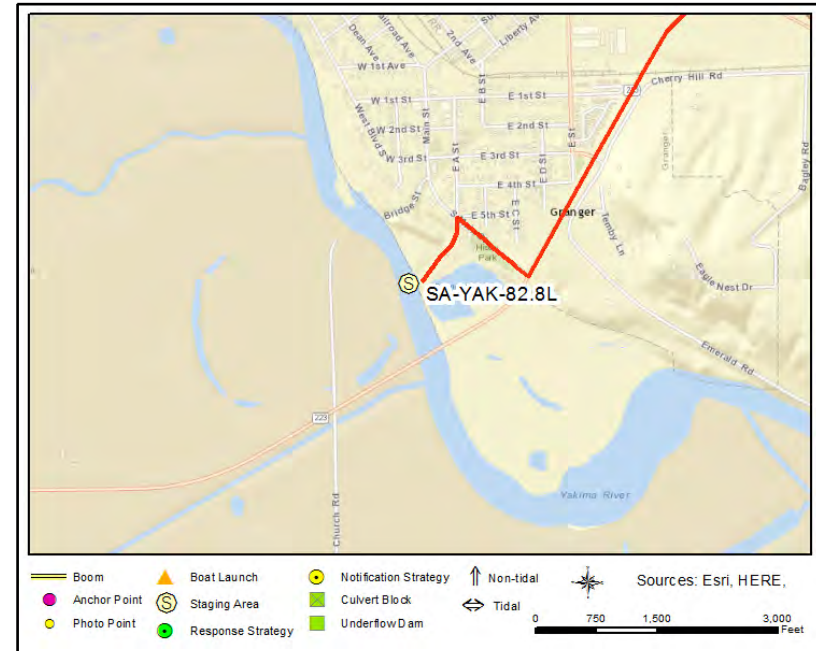
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

3073 Emerald Road Backwater Area

YAK-78.0L

Position - Location: 46° 18.853', -120° 8.072' 46° 18' 51.2", -120° 8' 4.3" 46.31422, -120.13454 Granger

Strategy Objective: Deflection : Keep oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.314524, -120.134775). Extend boom downstream, across entrance to backwater area, securing it mid-channel at/near Point B (46.314016, -120.1345). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

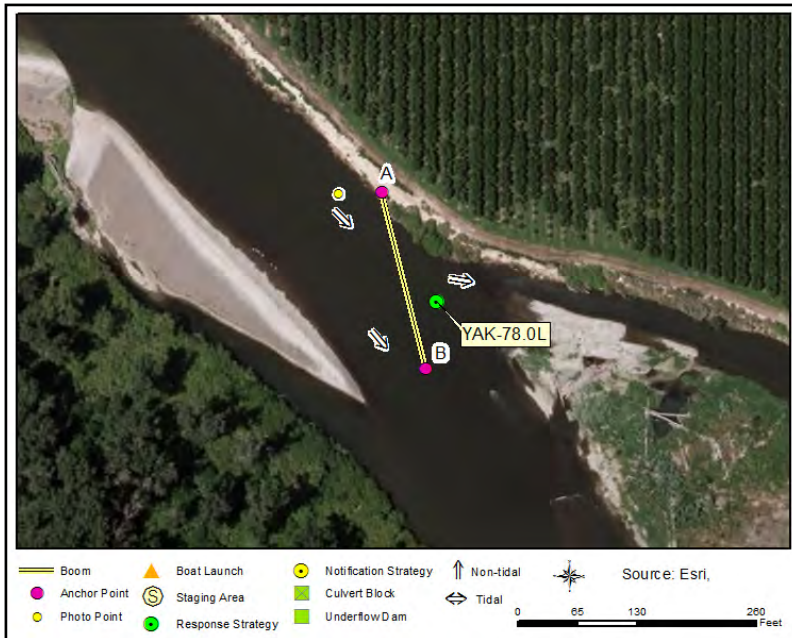
Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at YAK-82.8L, Granger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 25.85 downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

3073 Emerald Road Backwater Area

YAK-78.0L



YAK-78.0L Photo: View of the shoreline where YAK-78.0L is to be anchored

Site Contact

Yakama Nation

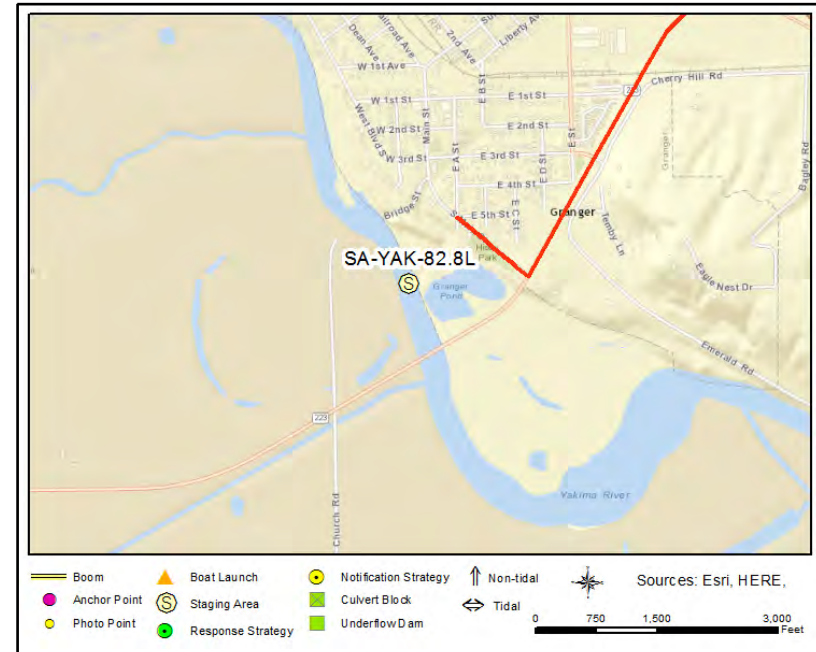
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Toppenish Creek and Chausee Rd Backwater Area

YAK-80.55R

Position - Location: 46° 19.450', -120° 10.106' 46° 19' 27.0", -120° 10' 6.3" 46.32417, -120.16843 Granger

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 200 ft of boom to river right at/near Point A (46.324255, -120.168878). Extend boom downstream in a chevron formation, securing it at/near Point B (46.323983, -120.16876). Then extend remaining boom downstream, securing it at/near Point C (46.347986, -120.168328). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-82.8L, Grainger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 23.3 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Creek Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2	Each	Anchoring System(s) - (anchor, lines, floats)
3	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Toppenish Creek and Chausee Rd Backwater Area

YAK-80.55R



YAK-80.55R Photo: Downstream view of the two channels leading to backwater habitat on river right, where YAK-80.55R is to be deployed

Site Contact

Yakama Nation

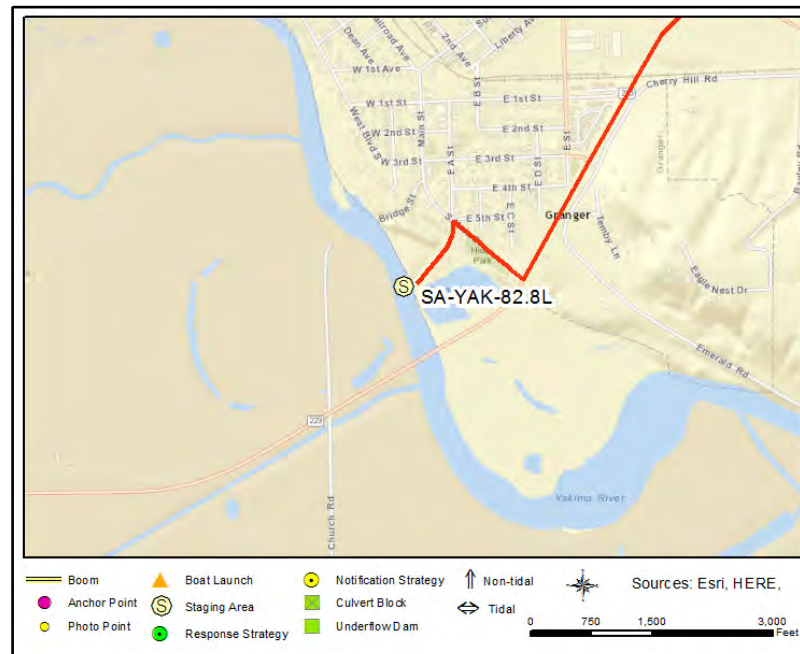
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Granger Public Works Boat Launch

YAK-82.8L

Position - Location: 46° 20.160', -120° 11.786' 46° 20' 9.6", -120° 11' 47.1" 46.33600, -120.19643 Granger

Strategy Objective: Collection : Collect oil moving downriver.

Implementation: Using workboat, secure end of 600 ft boom to right bank (anchor point A). Extend boom downriver and anchor end next to irrigation ditch. Use shoreside anchoring systems or existing features to secure boom to riverbanks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

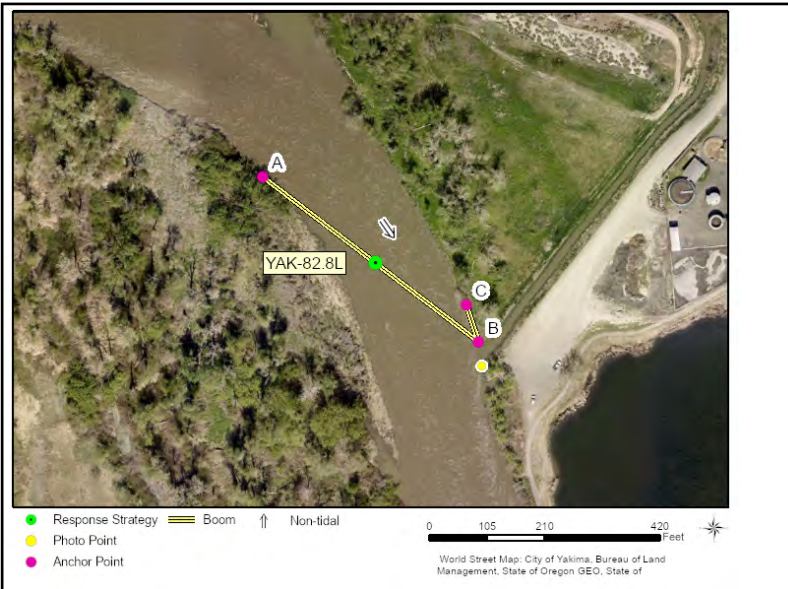
Staging Area: Onsite: Stage at SA-YAK-82.8L, Grainger Public Works Boat Launch

Site Safety: Heavy Equipment; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 21 miles below the Sunnyside Diversion Dam

Resources at Risk: Economic Resources, Herons, Salmonids, Sensitive Resources, Waterfowl



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Granger Public Works Boat Launch

YAK-82.8L



YAK-82.8L Photo: From boat ramp, looking northwest/upriver. Low water conditions (June).

Site Contact

City of Granger

Land/Property Contact : Public Works
509-854-2770

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

500 E A St
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work:
Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Connie Road Backwater Area North

YAK-84.1R

Position - Location: 46° 20.878', -120° 12.802' 46° 20' 52.7", -120° 12' 48.1" 46.34797, -120.21336 Granger

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 300 ft of boom to river right at/near Point A (46.3481, -120.214). Extend boom downstream across entrance to backwater area, securing it away from any large woody debris, at/near Point B (46.34812, -120.21369). Then extend remaining boom downstream, securing it at/near Point C (46.34799, -120.21343). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

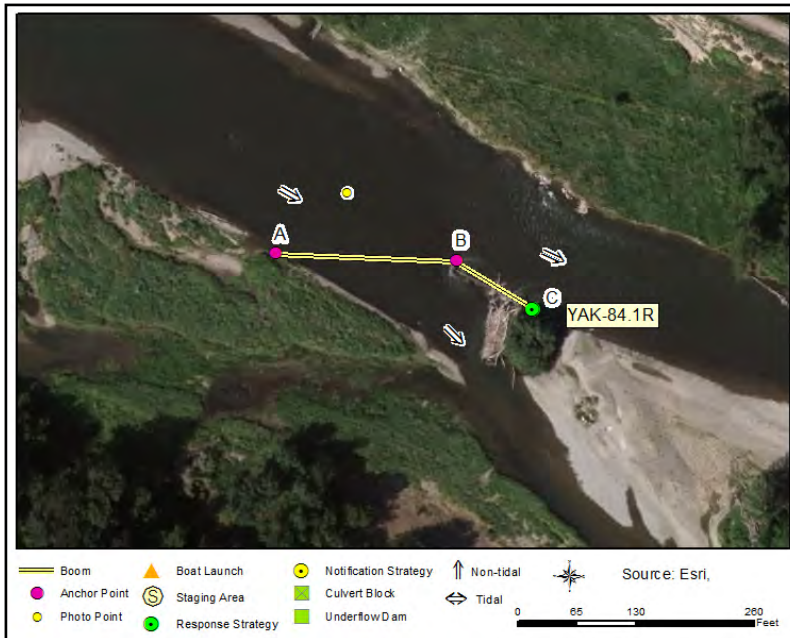
Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 19.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Connie Road Backwater Area North

YAK-84.1R



YAK-84.1R Photo: Downstream view of the backwater channel on river left where YAK-84.1R is to be deployed as well as the main channel to river left

Site Contact

Yakama Nation

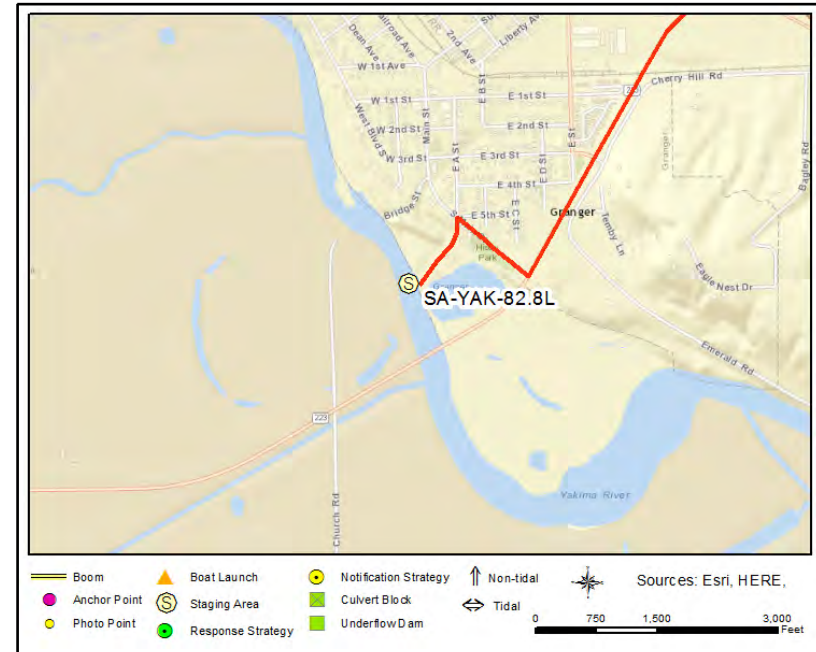
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Connie Road Backwater Area YAK-84.6R

Connie Road Backwater Area YAK-84.6R

Position - Location:	46° 21.253', -120° 13.439'	46° 21' 15.2", -120° 13' 26.3"	46.35421, -120.22398	Granger
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Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation:	Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.354279, -120.223741). Extend boom downstream across entrance to backwater area, securing it on river right at/near Point B (46.354053, -120.224097). Back boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.
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Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 19.25 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
200	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Connie Road Backwater Area

YAK-84.6R



YAK-84.6R Photo: View of the backwater area where YAK-84.6R should be deployed

Site Contact

Yakama Nation

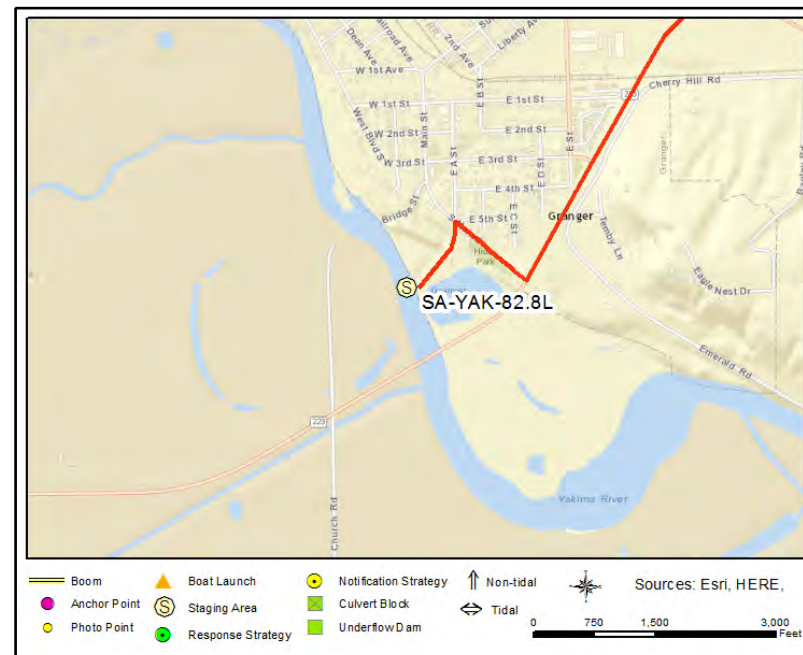
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Backwater Area Near 700 Ruehl Way

YAK-85.1L

Position - Location: 46° 21.278', -120° 12.808' 46° 21' 16.7", -120° 12' 48.5" 46.35464, -120.21346 Granger

Strategy Objective: Deflection : Deflect oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.354575, -120.213085). Extend boom downstream across entrance to backwater area, securing it mid-river at/near Point B (46.354588, -120.213863). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

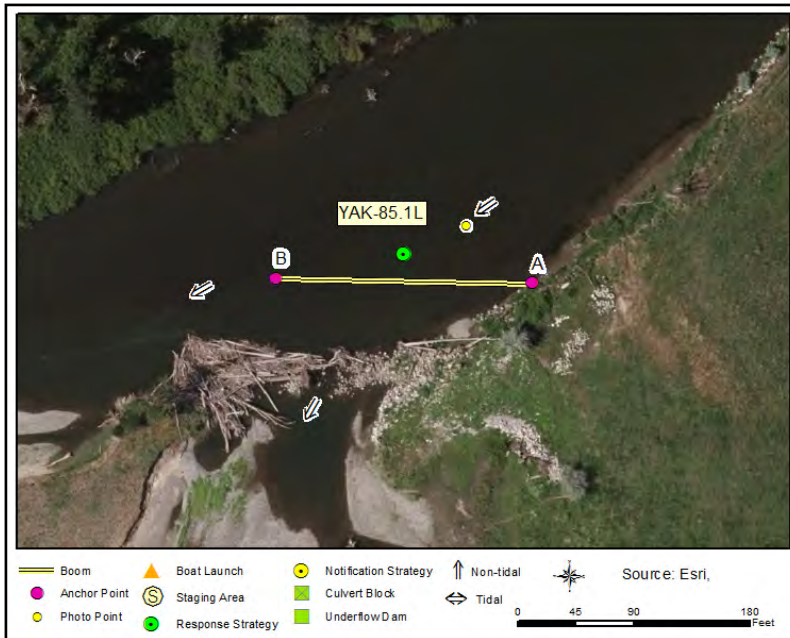
Staging Area: Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 18.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Backwater Area Near 700 Ruehl Way

YAK-85.1L



YAK-85.1L Photo: View of the backwater channel where YAK-85.1L is to be deployed

Site Contact

Yakama Nation

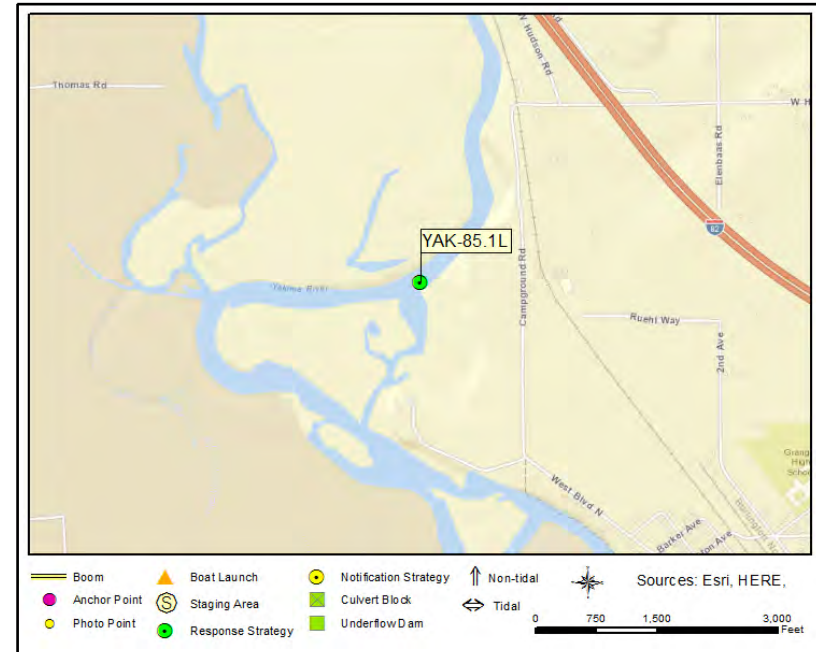
Tribal Contact : Environmental Management Program
509-945-2939

City of Granger

Secondary Contact : Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Work:

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

Channel Near 15340 Yakima Valley Highway

YAK-87.0L

Position - Location: 46° 22.827', -120° 13.649' 46° 22' 49.6", -120° 13' 38.9" 46.38045, -120.22748 Toppenish

Strategy Objective: Deflection : Deflect oil away from entrance to channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to shore on river left, at/near Point A (46.380863, -120.227517). Extend boom downstream across entrance to channel on river left, securing it mid-river at/near Point B (46.380048, -120.227712). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

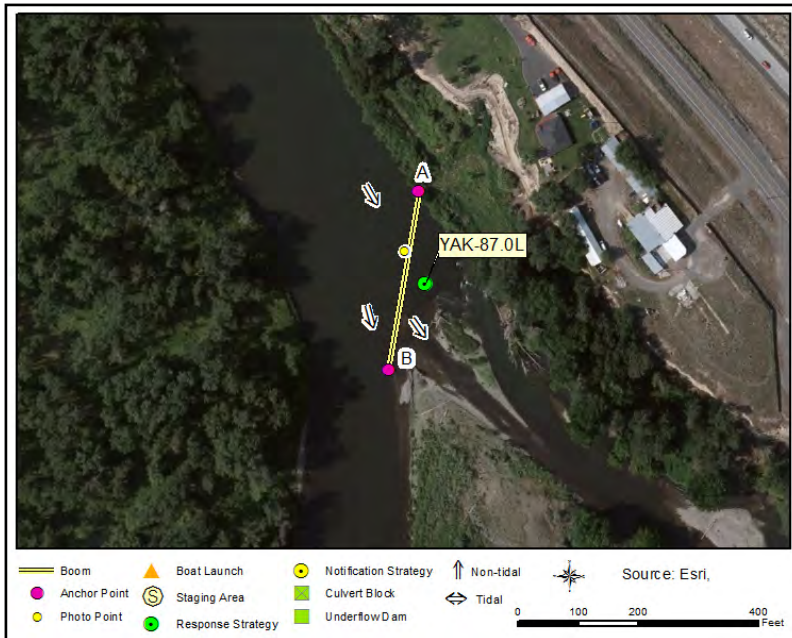
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 16.85 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Channel Near 15340 Yakima Valley Highway

YAK-87.0L



YAK-87.0L Photo: View of the left channel where YAK-87.0L is to be deployed

Site Contact

Yakama Nation

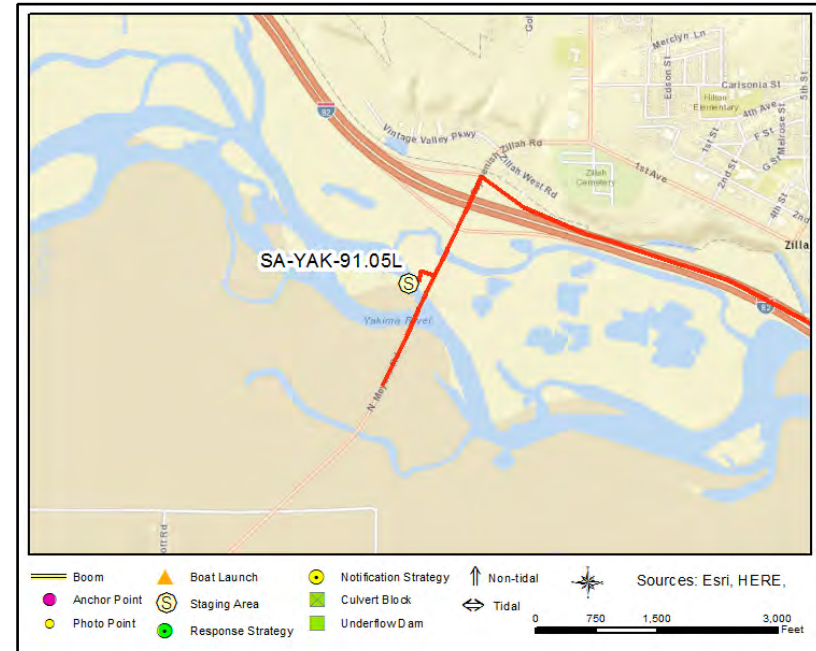
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Drain Near 14682 Yakima Valley Highway

YAK-87.55L

Position - Location: 46° 23.120', -120° 14.169' 46° 23' 7.2", -120° 14' 10.1" 46.38533, -120.23615 Toppenish

Strategy Objective: Collection : Collect oil moving downstream on drain before it enters the Yakima River on river left

Implementation: Using workboat, secure end of 100 ft of boom to bank on river left upstream of the drain canal at/near Point A (46.385235, -120.236168,). Extend boom downstream across the canal, securing it on river left at/near Point B (46.385348, 120.235895). Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

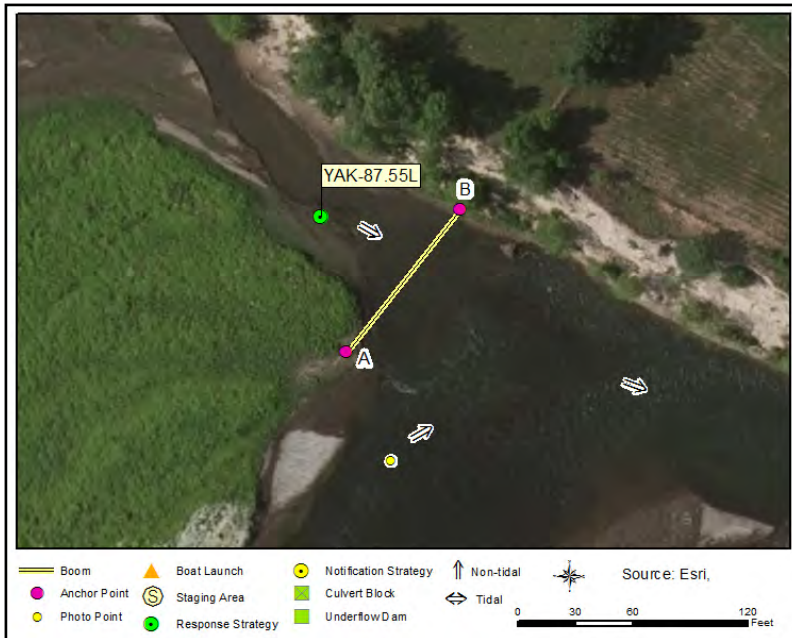
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 16.3 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Each	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-87.55L Photo: View of the backwater channel where YAK-87.55L is to be deployed

Site Contact

Yakama Nation

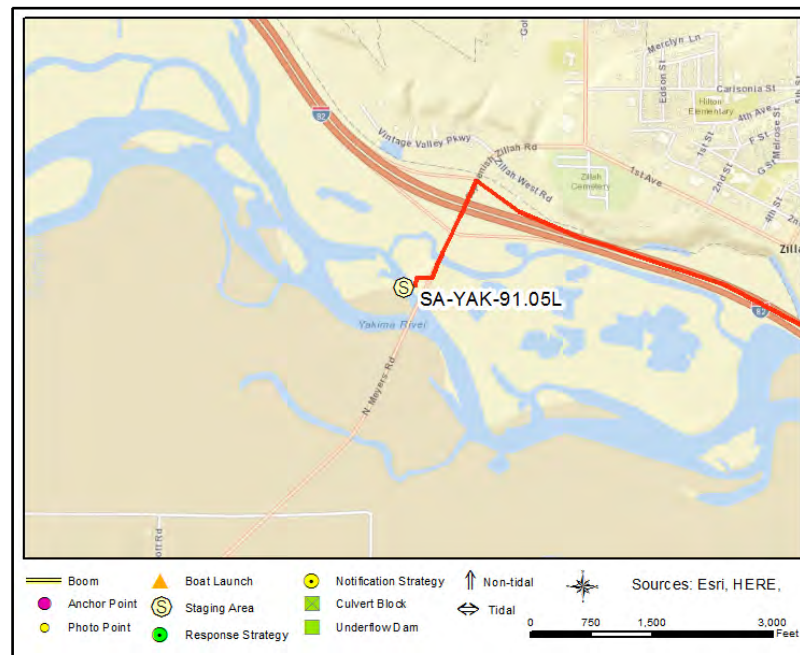
Tribal Contact : Environmental Management Program
509-945-2939

Sunnyside Valley Irrigation District

Other : Manages Sunnyside Diversion Dam & canal
509-837-6980

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) Nprth Meyers Bridge

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 N Meyers Rd, 98948, on the right

Backwater Area Near 310 Railroad Ave East, Zillah YAK-88.75L

Backwater Area Near 310 Railroad Ave East, Zillah YAK-88.75L

Position - Location:	46° 23.519', -120° 14.891'	46° 23' 31.2", -120° 14' 53.4"	46.39199, -120.24818	Toppenish
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Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river left

Implementation:	Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.391919, -120.248518). Extend boom downstream across entrance to backwater area on river left, securing it at/near Point B (46.391891, -120.247745). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.
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Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 15.1 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

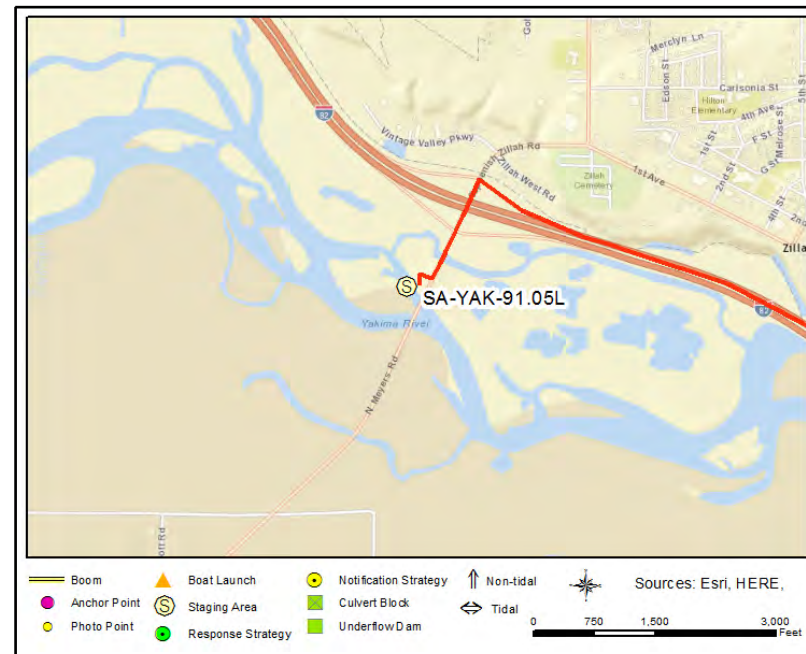
1	Boat Operator
2	Laborer
1	Supervisor

Backwater Area Near 310 Railroad Ave East, Zillah

YAK-88.75L



YAK-88.75L Photo: View of the backwater channel near Railroad Ave E, Zillah where YAK-88.75L is to be deployed



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Backwater Area Across I-82 from Loges Park

YAK-89.9R

Position - Location: 46° 23.750', -120° 15.838' 46° 23' 45.0", -120° 15' 50.3" 46.39584, -120.26397 Toppenish

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.39566, -120.264204). Extend boom downstream across entrance to backwater area on river right, securing it at/near Point B (46.395883, -120.263257). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 13.95 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Backwater Area Across I-82 from Loges Park

YAK-89.9R



YAK-89.9R Photo: View of the backwater area on river right across I-82 from Longes Park

Site Contact

Yakama Nation

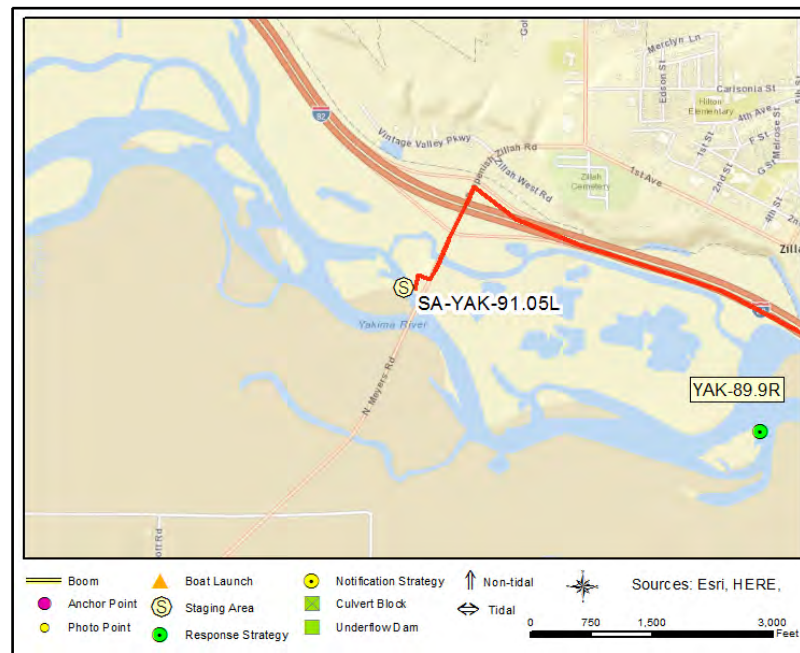
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Backwater Area SE of North Meyers Road Bridge

YAK-90.7R

Position - Location: 46° 23.738', -120° 16.687' 46° 23' 44.3", -120° 16' 41.2" 46.39564, -120.27812 Toppenish

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.395701, -120.278326). Extend boom downstream across entrance to backwater area on river right, securing it at/near Point B (46.395471, -120.278205.). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

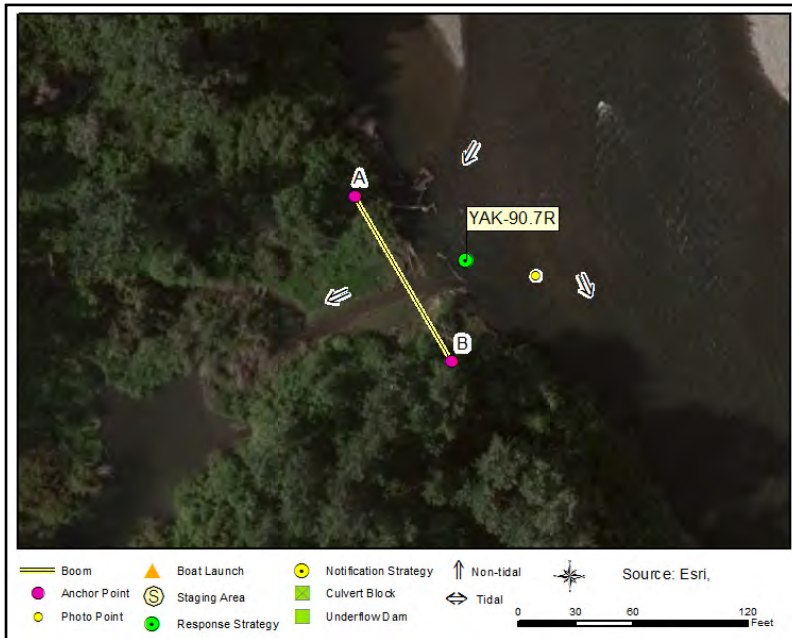
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 13.15 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Area, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Backwater Area SE of North Meyers Road Bridge

YAK-90.7R



YAK-90.7R Photo: Entrance to backwater area SE of N Meyers Road Bridge

Site Contact

Yakama Nation

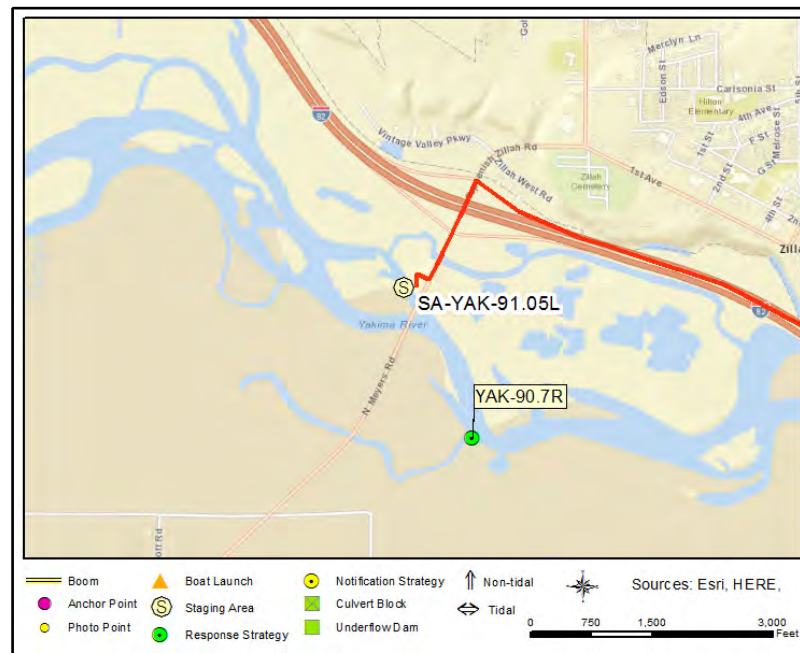
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

North Meyers Road Bridge

YAK-90.95R

Position - Location: 46° 23.963', -120° 16.866' 46° 23' 57.8", -120° 16' 52.0" 46.39938, -120.28110 Toppenish

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom to shore on river left, at/near Point A (46.399916, -120.282619). Extend boom downstream of the bridge to river right, securing it at/near Point B (46.399142, -120.281014.). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point B.

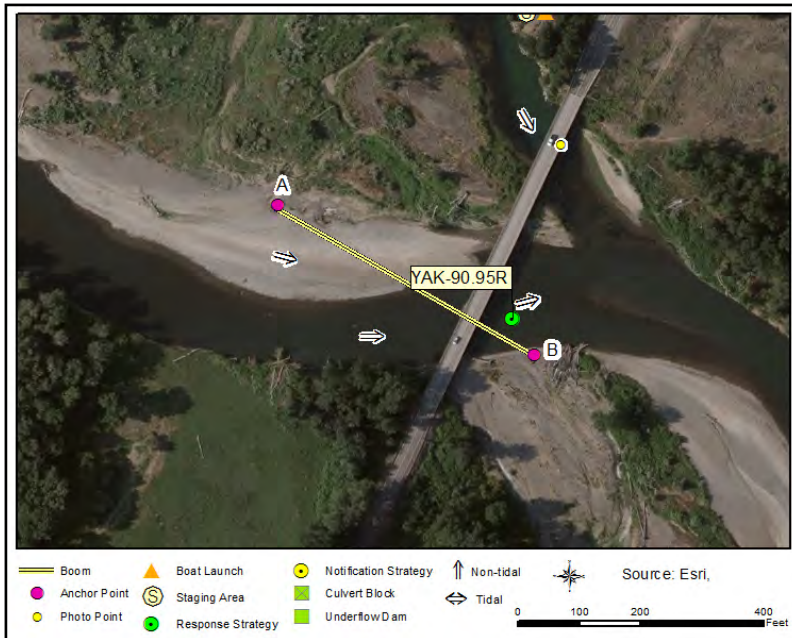
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 12.9 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

North Meyers Road Bridge

YAK-90.95R



YAK-90.95R Photo: View from the downstream side of the N Meyers Rd Bridge, above anchor point A, looking toward river right

Site Contact

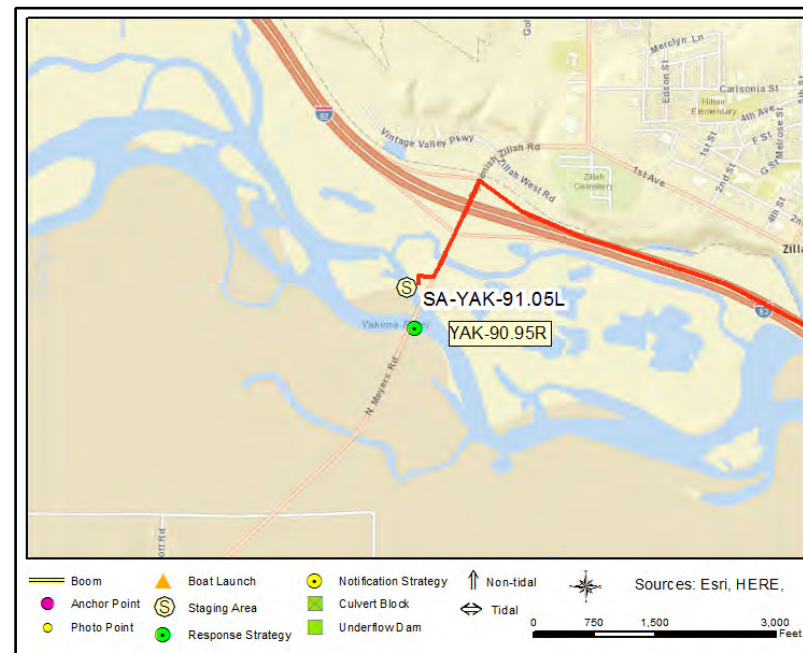
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Backwater Area Near Pond 7 in Zillah

YAK-91.7L

Position - Location: 46° 24.349', -120° 17.335' 46° 24' 21.0", -120° 17' 20.1" 46.40582, -120.28891 Toppenish

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.406005, -120.288925). Extend boom downstream across entrance to backwater area, securing on river left it at/near Point B (46.405964, -120.288713). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions

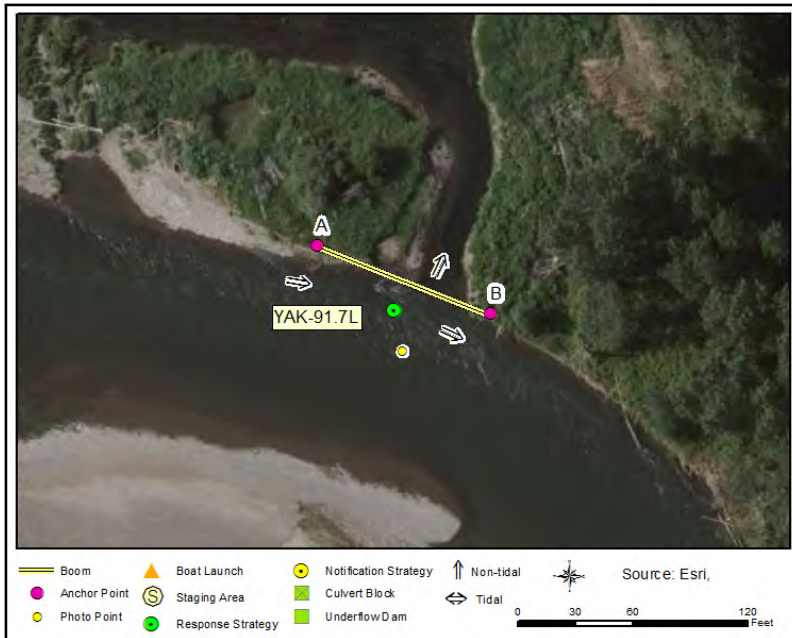
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 12.15 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Backwater Area Near Pond 7 in Zillah

YAK-91.7L



YAK-91.7L Photo: Mouth of backwater channel where YAK-91.7L is to be deployed

Site Contact

Yakama Nation

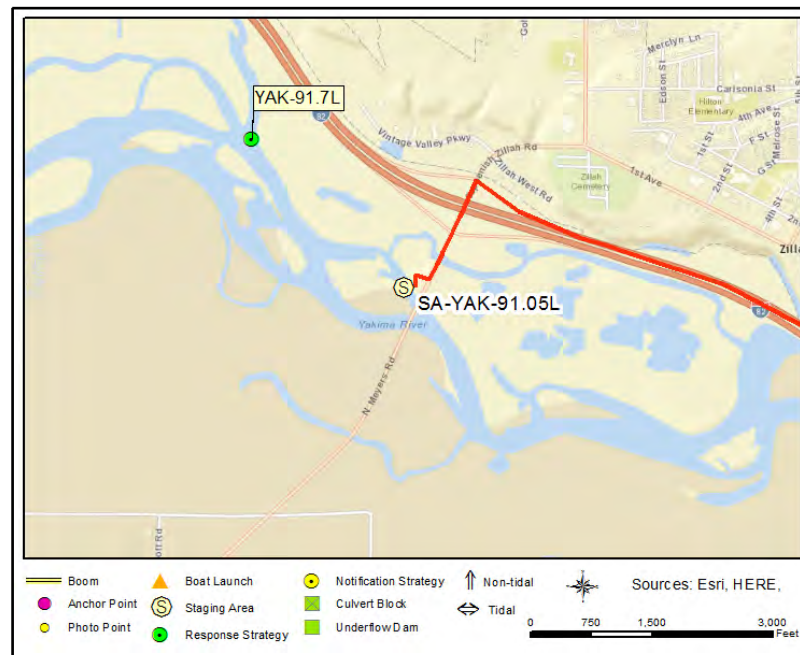
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Fraley Road Backwater Area

YAK-91.85R

Position - Location: 46° 24.293', -120° 17.533' 46° 24' 17.6", -120° 17' 32.0" 46.40489, -120.29222 Toppenish

Strategy Objective: Deflection : Deflect oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.404878, -120.29257). Extend boom downstream across entrance to backwater area, securing mid-river at/near Point B (46.405116, -120.291864). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

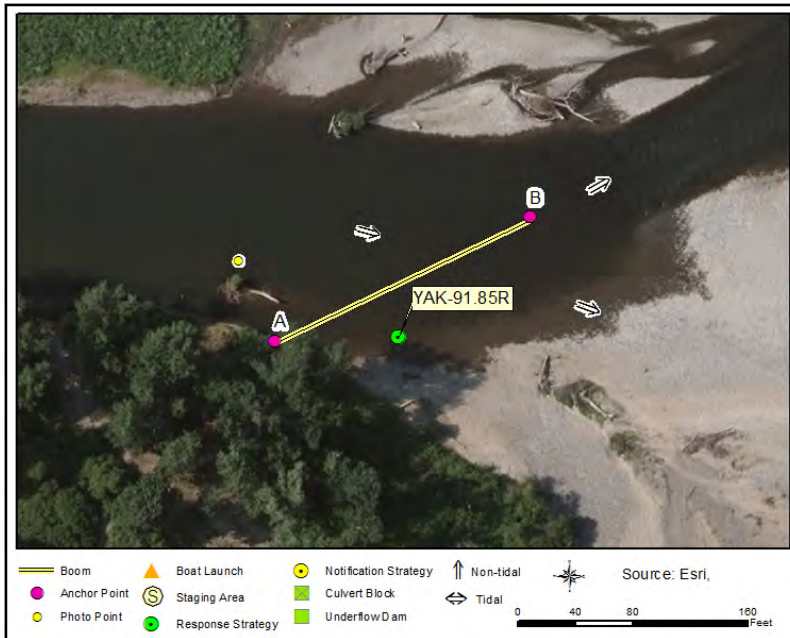
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 12 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Fraley Road Backwater Area

YAK-91.85R



YAK-91.85R Photo: View of the backwater channel mouth where YAK-91.85R is to be deployed

Site Contact

Yakama Nation

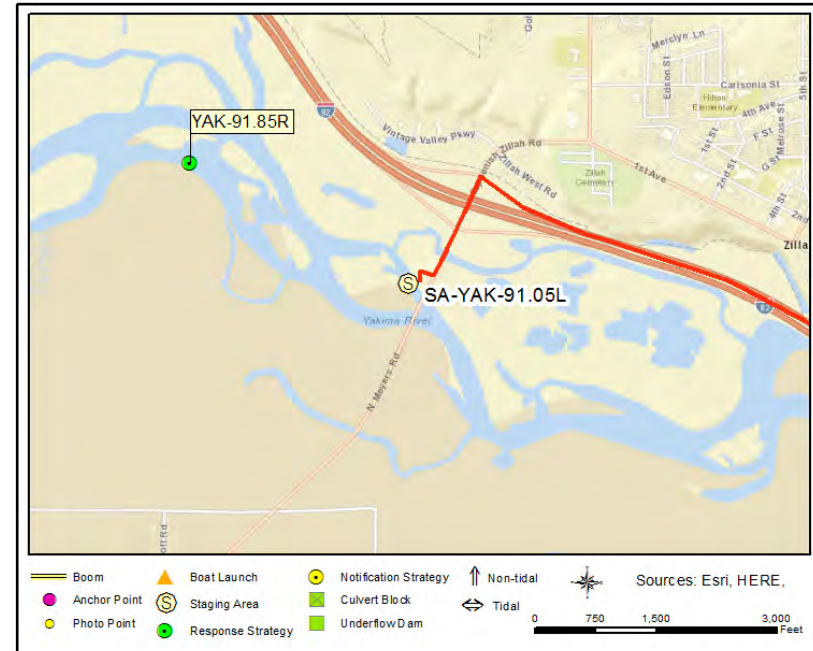
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Left Channel at Yakima River Mile 92.45

YAK-92.45M

Position - Location: 46° 24.158', -120° 18.296' 46° 24' 9.5", -120° 18' 17.8" 46.40263, -120.30494 Toppenish

Strategy Objective: Deflection : Deflect oil away from entrance to channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to island mid-river at/near Point A (46.4034, -120.3057). Extend boom downstream, securing outside woody debris at/near Point B (46.3481, -120.2137). Then extend remaining boom downstream, securing it to island at/near Point C (46.4027, -120.3052). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 11.4 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

4 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Left Channel at Yakima River Mile 92.45

YAK-92.45M



YAK-92.45M Photo: Downstream view of the mid-river location where YAK-92.45M is to be deployed

Site Contact

Yakama Nation

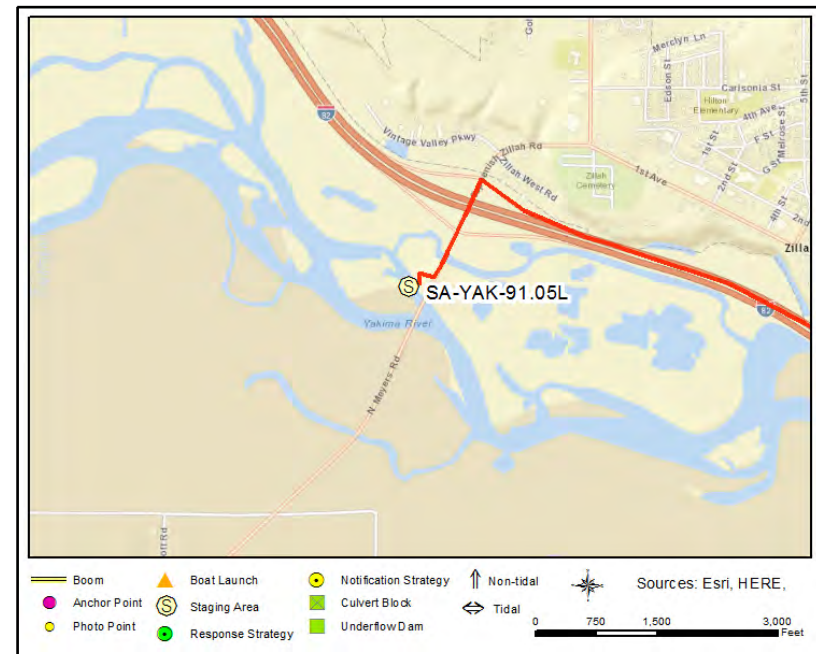
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Backwater Area at Yakima River Mile 92.6

YAK-92.6L

Position - Location: 46° 24.250', -120° 18.396' 46° 24' 15.0", -120° 18' 23.8" 46.40416, -120.30660 Toppenish

Strategy Objective: Deflection : Deflect oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.404447, -120.30652). Extend boom downstream across entrance to backwater area, securing mid-river at/near Point B (46.403983, -120.306591). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

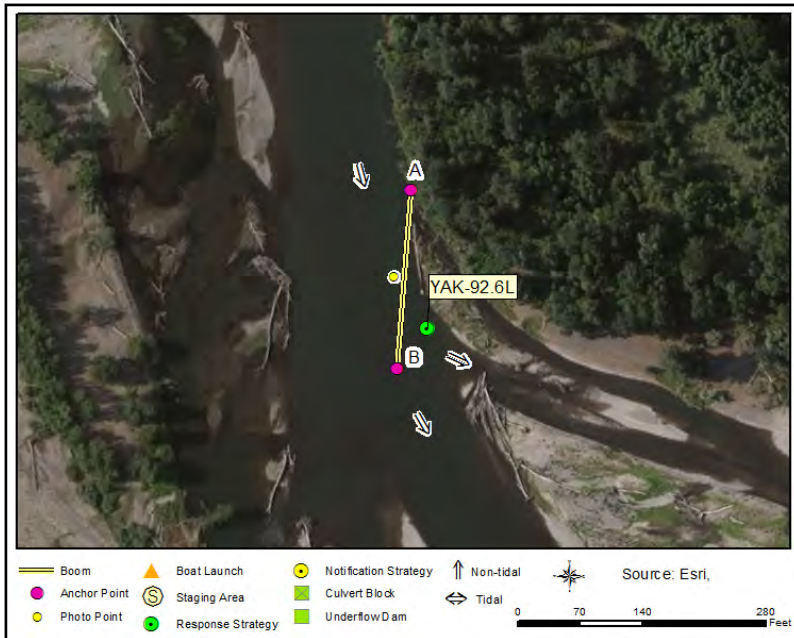
Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 11.25 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Backwater Area at Yakima River Mile 92.6

YAK-92.6L



YAK-92.6L Photo: Downstream view of location where YAK-92.6L is to be deployed

Site Contact

Yakama Nation

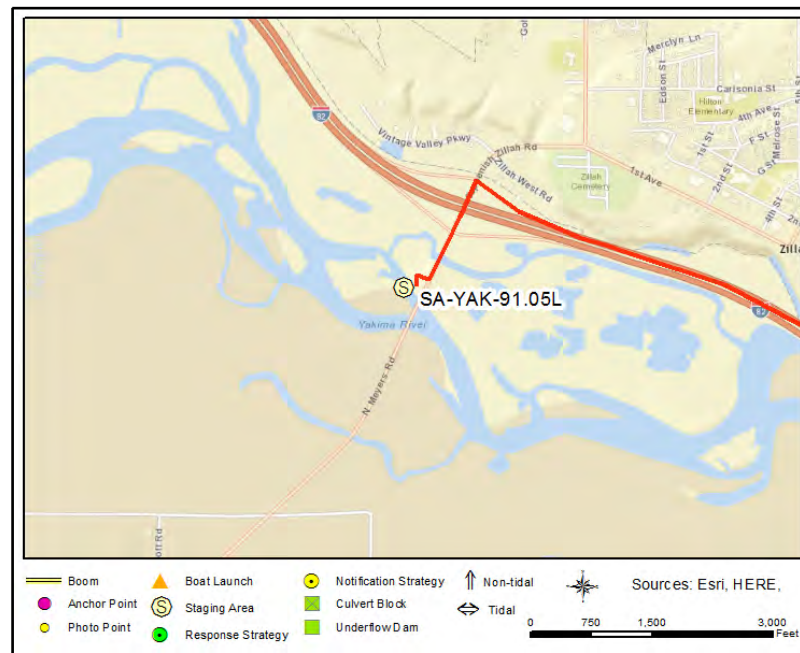
Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Secondary Contact : Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Evergreen Highway Bridge

YAK-93.1R

Position - Location: 46° 24.581', -120° 18.881' 46° 24' 34.9", -120° 18' 52.9" 46.40969, -120.31469 Zillah

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 400 ft of boom to river left at/near Point A (46.41055, -120.31492). Extend boom downstream, securing mid-channel at/near Point B (46.40976, -120.31452). Then extend remaining boom downstream, securing it on river right at/near Point C (46.40941, -120.31458). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use small vac truck or skimmer/storage to collect oil at Point C.

Staging Area: Onsite : On tribal land, coordinate access with the Yakima Nation at 509-945-2939. Narrow gravel/dirt drive with a gate.

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 10.75 miles downstream of the Sunnyside diversion dam

Resources at Risk: Backwater Habitat, General Fish and Wildlife Resources, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
400 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
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



YAK-93.1R Photo: View from the entrance gate to the site, looking upstream along the proposed boom angle

Site Contact

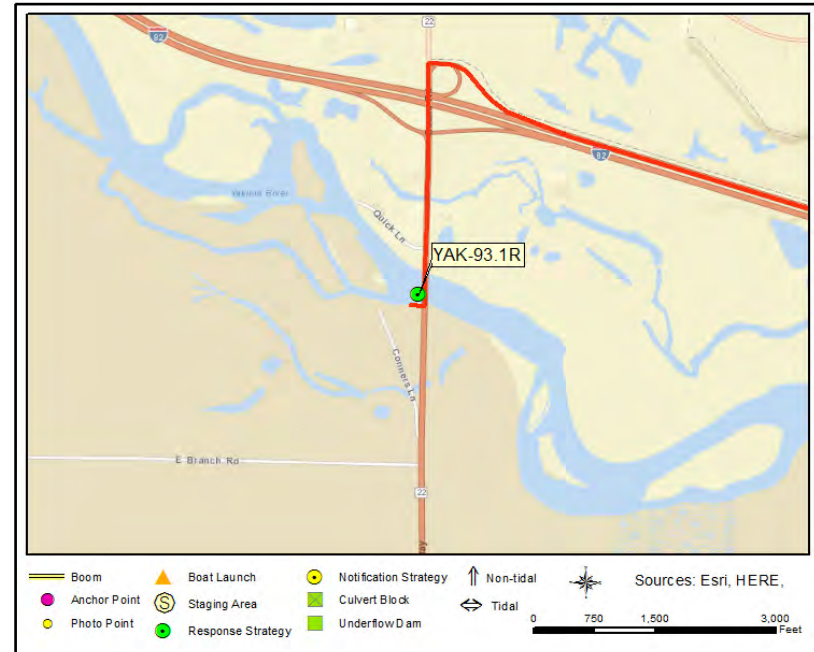
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

66 Conners Lane
Zillah, WA 98953



Driving Directions

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (0.35 miles)
5. Make sharp right as soon as you cross the bridge, finish at gate leading to strategy location near 46.409414, -120.314578.

Weirman Road Backwater Area

YAK-94.15R

Position - Location: 46° 24.844', -120° 19.777' 46° 24' 50.6", -120° 19' 46.6" 46.41406, -120.32962 Toppenish

Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.414223, -120.329973). Extend boom downstream across entrance to backwater area, securing on river right at/near Point B (46.413749, -120.329604). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-94.5R, Wierman Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-94.5R, Wierman Road Primitive Boat Launch (may need to hand launch in low water). Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 9.7 miles downstream of the Sunnyside diversion dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Weirman Road Backwater Area

YAK-94.15R



YAK-94.15R Photo: View of the backwater channel inlet off of Wieman Road taken from midriver during low water conditions. There are openings to the channel on either side of the sandbar

Site Contact

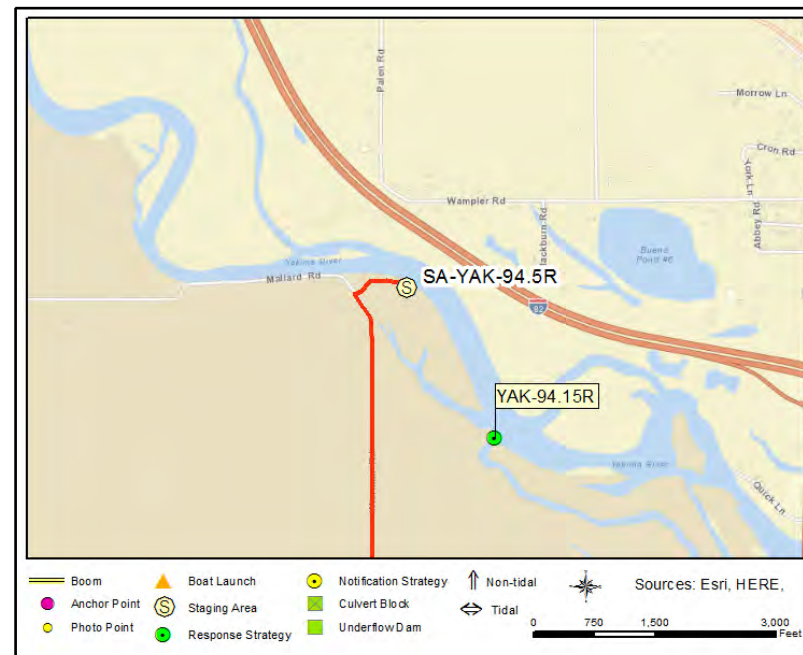
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1402 Wieman Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK94.5R/BL-YAK-94.5R) Wieman Road
Primitive Boat Launch

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (0.51 miles)
7. Turn right on Wieman Rd (1.65 miles)
8. Turn right just after 1402 Wieman Rd, 98948, on the left, follow dirt track off to the right the river (0.2 miles)

Just Upstream of Snipes/Allen Canal Fish Screen

YAK-96.95L

Position - Location: 46° 26.636', -120° 20.930' 46° 26' 38.2", -120° 20' 55.8" 46.44394, -120.34883 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using hand launch workboat, secure end of 200 ft of boom, backed with sorbent, on river right at/near Point A (46.4439, -120.349). Extend boom across side channel, securing it at/near Point B (46.4438, -120.3489). Extend boom further downstream, securing it on river right at/near Point C (46.4439, -120.3486). Secure remaining boom on river left at Point D (46.444, -120.3488). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle/anchors as needed. Use skimmer/storage to collect oil at/near Point C.

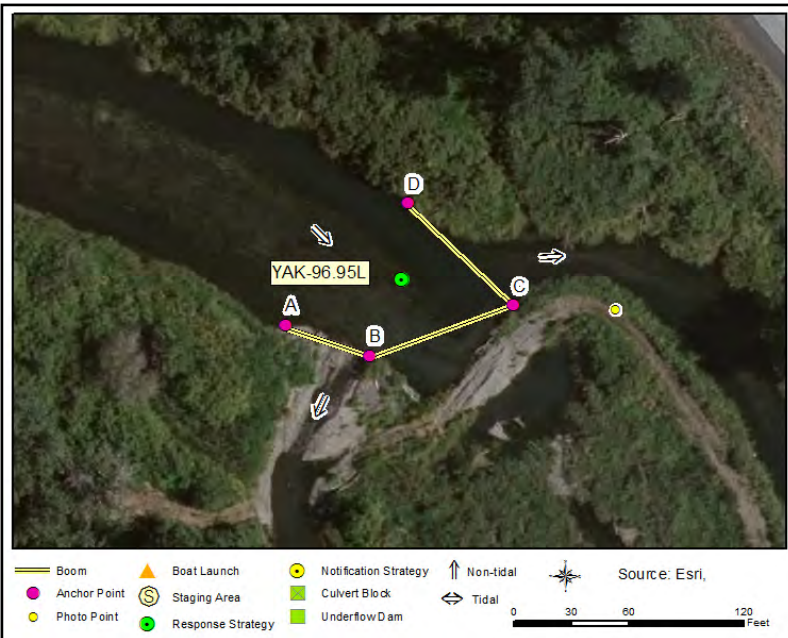
Staging Area: Onsite : Dirt/gravel parking area next to the Snipes/Allen Canal head gate

Site Safety: Water Hazard; Slips, Trips, Falls; Dangerous Animals\Snakes; Heavy Vegetation

Field Notes: Hand launch a small boat onsite (or use waders in shallow water). Notify US Bureau of Reclamation at 509-406-3031 to coordinate access. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 6.9 miles downstream of the Sunnyside diversion dam

Resources at Risk: Backwater Habitat, Economic Resource, Great Blue Heron Rookeries, Osprey Nest(s), Water Intakes



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
4 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
200 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

No Photograph Available

YAK-96.95L Photo: No photo available

Site Contact

US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager
509-406-3031

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

30 Flint Road
Wapato, WA 98951



Driving Directions

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn right on Buena Rd (WA-22) (0.65 miles)
4. Turn left on Yakima Valley Hwy (1.99 miles)
5. Turn left on Flint Ln (0.4 miles)
6. Pass 30 Flint Road, 98951, and go through the tunnel under the highway. Snipes/Allen Screen is on the right. Follow the dirt road that runs on the W side of the fence back to the strategy location (0-.15 miles)

Backwater Area at Yakima River Mile 97.95 YAK-97.95M

Backwater Area at Yakima River Mile 97.95 YAK-97.95M

Position - Location:	46° 26.936', -120° 21.874'	46° 26' 56.2", -120° 21' 52.4"	46.44894, -120.36456	Wapato
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Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river left

Implementation:	Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.448975, -120.364339). Extend boom downstream across entrance to backwater area, securing on island at/near Point B (46.448745, -120.364464). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.
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Staging Area: Remote : Stage at SA-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls

Field Notes: Launch at BL-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate with Yakima Nation at 509-945-2939 for access, launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 5.9 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River 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	
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1	Boat Operator
2	Laborer
1	Supervisor



YAK-97.95M Photo: View looking into the backwater channel where YAK-97.95M is to be deployed

Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1561 E Wapato Rd
Wapato, WA 98951



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road
Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752

Backwater Area at Yakima River Mile 98.15

YAK-98.15L

Position - Location:	46° 27.136', -120° 21.865'	46° 27' 8.2", -120° 21' 51.9"	46.45227, -120.36442	Wapato
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Strategy Objective: Exclusion : Keep oil away from entrance to backwater area on river left

Implementation:	Using workboat, secure end of 300 ft of boom on river left at/near Point A (46.45177, -120.3641). Extend boom across side channel, securing mid-river at/near Point B (46.4521, -120.3646). Then extend boom further downstream, securing it on the west side of the island at/near Point C (46.45109, -120.36443). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.
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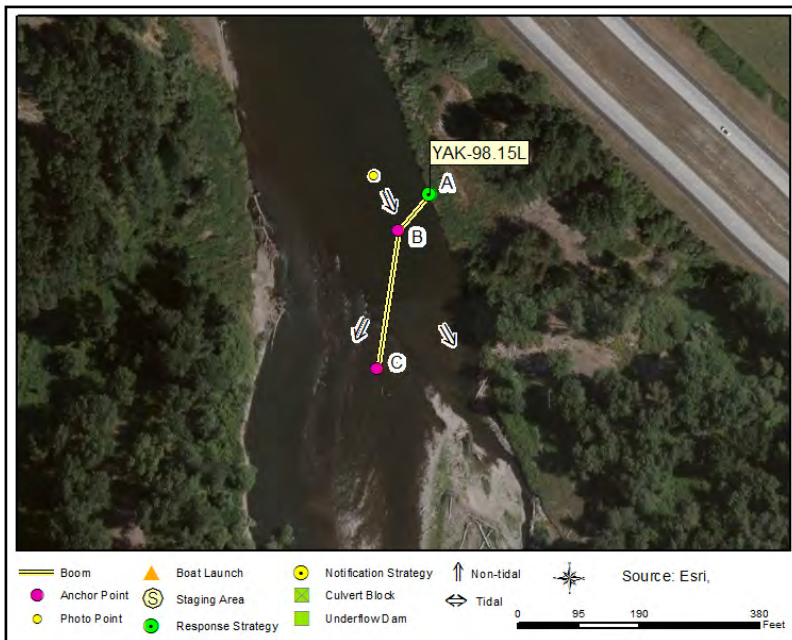
Staging Area: Remote : Stage at SA-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate with Yakima Nation at 509-945-2939 for access, launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 5.7 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment	
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4	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-98.15L Photo: Downstream view of the left channel where YAK-98.15L is to be deployed



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1561 E Wapato Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road
Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752

Backwater Area Near East Wapato Road

YAK-99.4L

Position - Location: 46° 27.488', -120° 22.973' 46° 27' 29.3", -120° 22' 58.4" 46.45813, -120.38289 Wapato

Strategy Objective: Deflection : Deflect oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.458346, -120.382786). Extend boom downstream across entrance to backwater area, securing mid-river at/near Point B (46.457792, -120.382693). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

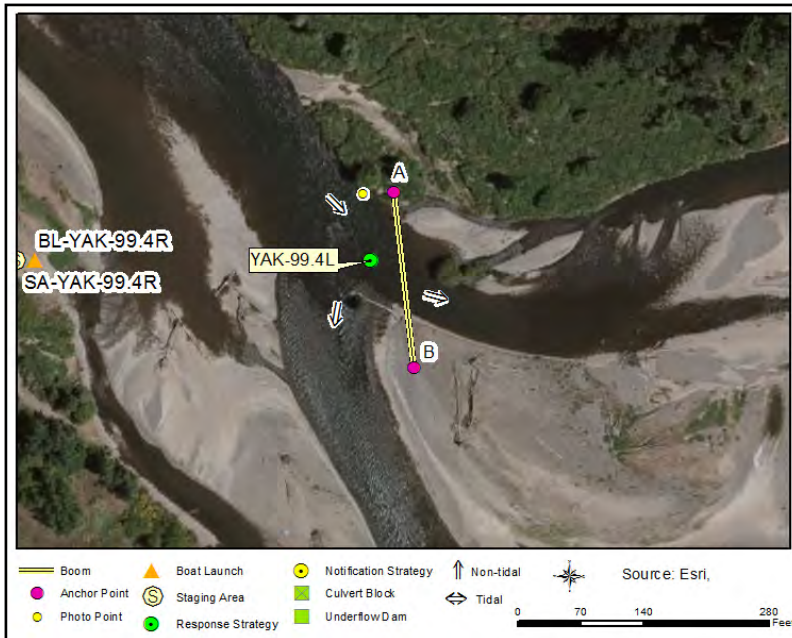
Staging Area: Remote : Stage at SA-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate with Yakima Nation at 509-945-2939 for access, launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 4.45 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Backwater Area Near East Wapato Road

YAK-99.4L



YAK-99.4L Photo: Downstream view of the left shoreline where YAK-99.4L is to be deployed



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

1561 E Wapato Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road
Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752

Donald Wapato Bridge

YAK-100.5R

Position - Location: 46° 27.895', -120° 24.040' 46° 27' 53.7", -120° 24' 2.4" 46.46492, -120.40067 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using hand-launch workboat, secure end of 300 ft of boom to bank on river left at/near Point B (46.465075, -120.401146). Extend boom downstream and across to river right; secure remaining end at/near Point A (46.464933, -120.39999). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Use lines, winch, and workboat to control boom shape and movement in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and conditions. Vac-truck or skimmer/storage collection at Point A.

Staging Area: Onsite : Stage on dirt road adjacent to anchor point A

Site Safety: Water Hazard; Undercut Bank in Areas; Slips, Trips, Falls

Field Notes: Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Must drive off-road on dirt tracks to get to the waters edge. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 3.8 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: General Fish and Wildlife Resources, Sensitive Resources, Tribal Lands/Resources



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
2 Each	Heaving Line(s)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor

Donald Wapato Bridge

YAK-100.5R



YAK-100.5R Photo: View from river right of the area on river left where anchor point B would be placed

Site Contact

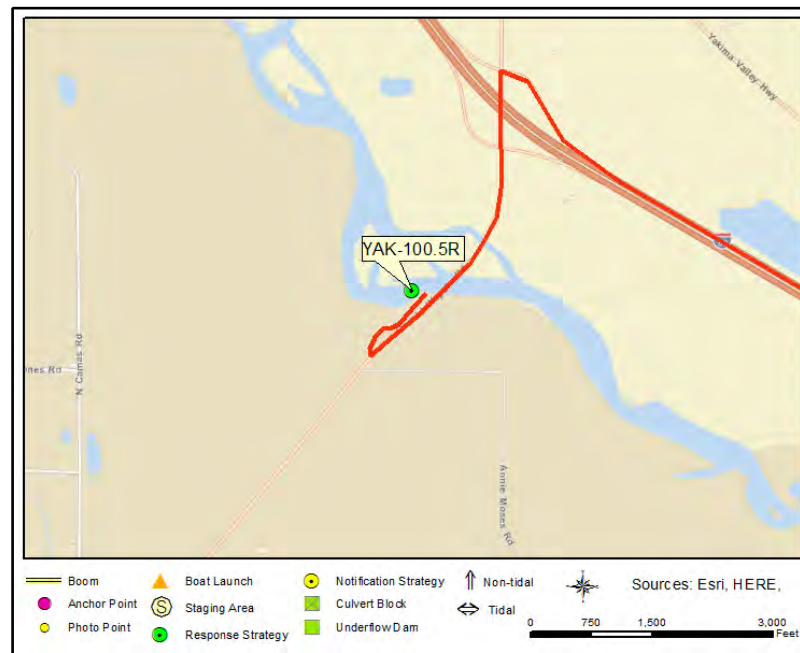
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

2141 Donald Wapato Rd
Wapato, WA 98951



Driving Directions

1. Head west from West Richland on I-82 (51.79 miles)
2. At exit 44 take ramp on the right toward Wapato (0.4 miles)
3. Turn left on Donald Wapato Rd (0.3 miles)
4. Go past 2141 Donald Wapato Rd, 98951, on the left. Cross the bridge and then turn right onto the first dirt road with available access. Stay to the right until you come to the river just upstream of the Donald Wapato Bridge (0.2 miles)

Yakima River RM 102.1

YAK-102.1R

Position - Location: 46° 29.032', -120° 25.222' 46° 29' 1.9", -120° 25' 13.3" 46.48387, -120.42037 Wapato

Strategy Objective: Exclusion : Keep oil out of backwater on river right.

Implementation: Using workboat, secure 300 ft of boom to gravel bar on river right at/near Point A (46.48443, -120.42077), immediately upstream of side channel entrance. Extend boom downstream ~200 ft, across side channel entrance; secure at/near Point B (46.483875, -120.420373). Extend remaining boom along river right of main channel, and secure at/near Point C (46.48377, -120.42013). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors based on stream flow & conditions.

Staging Area: Remote : Stage at SA-YAK-103.05L Mellis Frontage Road Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-103.05L Mellis Frontage Road Boat Launch. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 1.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

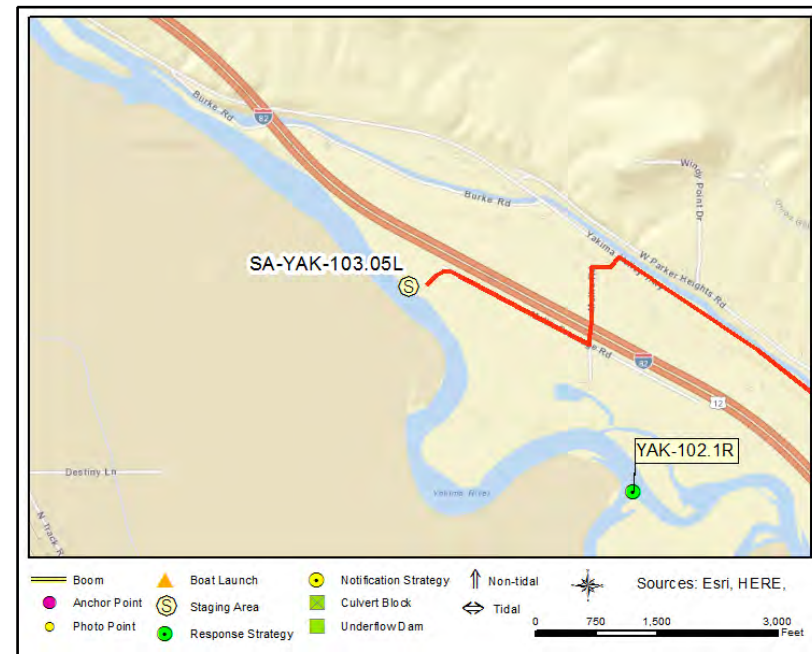
3	Each	Anchoring System(s) - (anchor, lines, floats)
3	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-102.1R Photo: Looking west from boat toward river right.



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH SA-YAK-103.05L/BL-YAK-103.05L Mellis Frontage Road Boat Launch

1. Head west from West Richland on I-82 (8.27 miles)
2. At exit 93 take ramp on the right and go on Yakitat Road (49.18 miles)
3. At exit 44 take ramp on the right toward Wapato (0.4 miles)
4. Turn right on Donald Wapato Rd (0.39 miles)
5. Turn left on Yakima Valley Hwy (1.59 miles)
6. Turn left on Mellis Rd (0.3 miles)
7. Finish at 300 Mellis Rd, 98951, on the right

Mellis Frontage Road backwater habitat

YAK-102.2L

Position - Location: 46° 29.159', -120° 25.319' 46° 29' 9.5", -120° 25' 19.1" 46.48598, -120.42198 Wapato

Strategy Objective: Exclusion : Keep oil out of backwater habitat on river left

Implementation: Using workboat, secure end of 200 ft of boom to bank on river left at/near Point A (46.48601, -120.421952). Extend boom downstream, at/near Point B, above any large woody debris, (46.485854, -120.421665). Then extend remaining boom across to the right side of island, securing it at/near Point C (46.485702, -120.421291). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

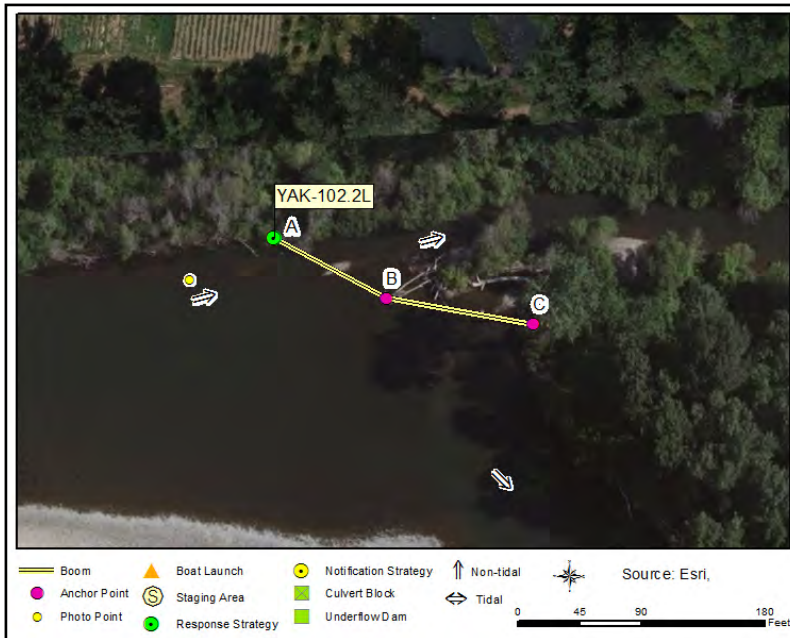
Staging Area: Remote : Stage at SA-YAK-103.05L Mellis Frontage Road Boat Launch

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-103.05L Mellis Frontage Road Boat Launch. The Yakima River has extreme variability in seasonal flows

Watercourse: River - Below a Dam - Yakima River, 1.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River 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

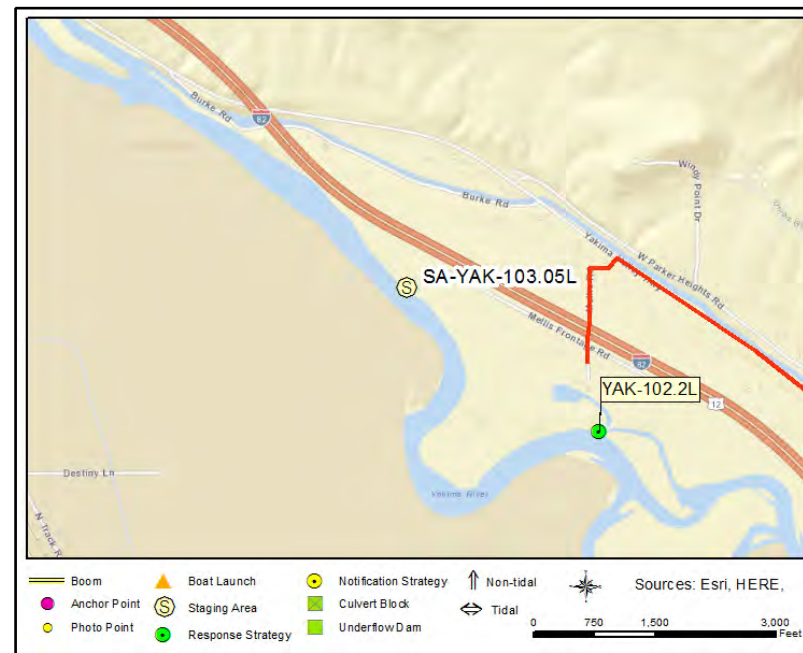
1	Boat Operator
2	Laborer
1	Supervisor

Mellis Frontage Road backwater habitat

YAK-102.2L



YAK-102.2L Photo: View of the inlet to backwater habitat adjacent to Mellis Frontage Road



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch

1. Head southeast from West Pasco, on George Washington Way (WA-240-BR) (0.78 miles)
2. Bear right onto ramp to I-182 toward Pasco / Yakima (0.1 miles)
3. At fork keep right toward I-82 W / Yakima / Pendleton (4.5 miles)
4. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
5. At exit 44 take ramp on the right toward Wapato (0.4 miles)
6. Turn right on Donald Wapato Rd (0.39 miles)
7. Turn left on Yakima Valley Hwy (1.59 miles)
8. Turn left on Mellis Rd (0.3 miles)
9. Finish at 300 Mellis Road, 98951, on the right

Renegade Raceway Backwater S

YAK-103.1R

Position - Location: 46° 29.459', -120° 25.961' 46° 29' 27.5", -120° 25' 57.7" 46.49098, -120.43269 Wapato

Strategy Objective: Exclusion : Keep oil out of backwater habitat on river right

Implementation: Using workboat, secure end of 100 ft of boom to bank on river right at/near Point A (46.491037, -120.433116). Extend boom downstream, and across backwater inlet. Secure at/near Point B (46.490832, -120.432847). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. May need to turn into a deflection strategy in high water conditions.

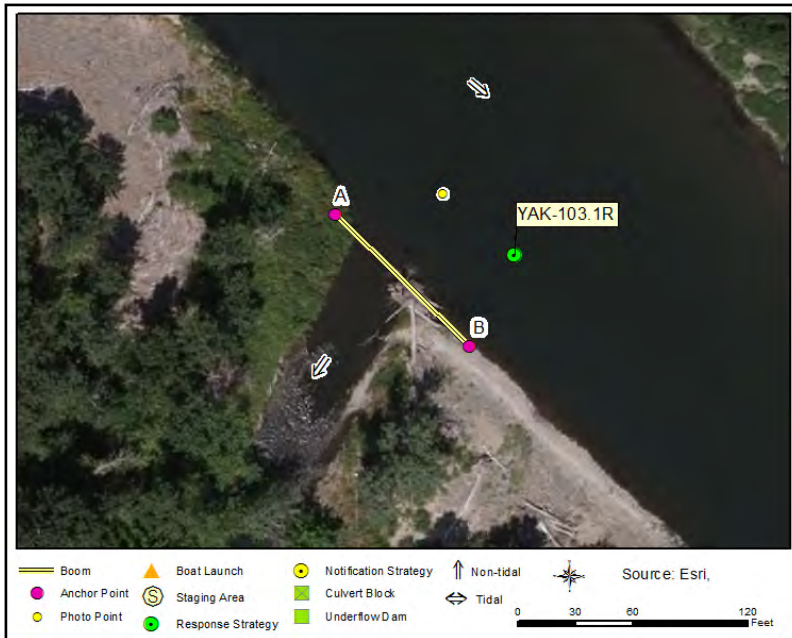
Staging Area: Remote : Stage at SA-YAK-103.05L Mellis Frontage Road Boat Launch

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-103.05L Mellis Frontage Road Boat Launch. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow

Watercourse: River - Below a Dam - Yakima River, 0.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

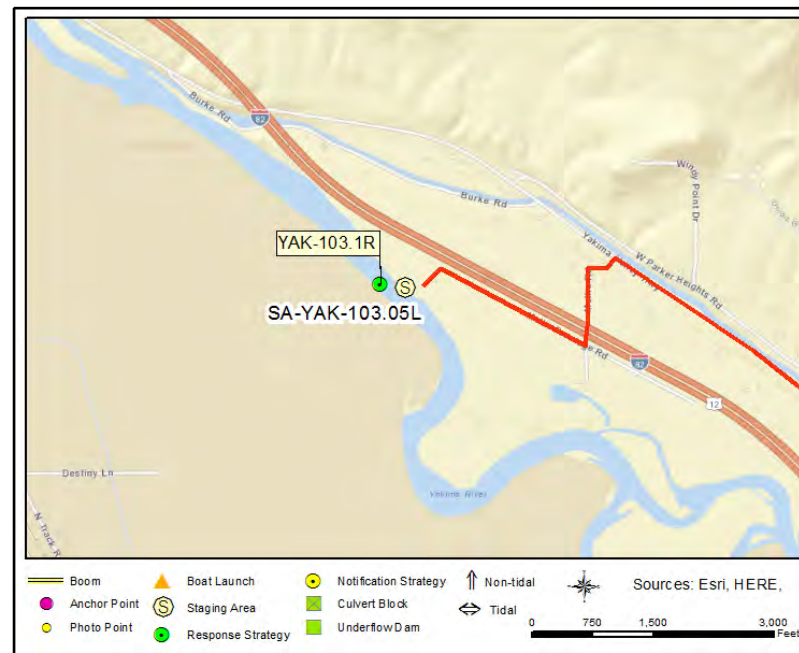
1	Boat Operator
2	Laborer
1	Supervisor

Renegade Raceway Backwater S

YAK-103.1R



YAK-103.1R Photo: View of the backwater inlet to be excluded by YAK-103.1R



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch

1. Head southeast from West Pasco, on George Washington Way (WA-240-BR) (0.78 miles)
2. Bear right onto ramp to I-182 toward Pasco / Yakima (0.1 miles)
3. At fork keep right toward I-82 W / Yakima / Pendleton (4.5 miles)
4. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
5. At exit 44 take ramp on the right toward Wapato (0.4 miles)
6. Turn right on Donald Wapato Rd (0.39 miles)
7. Turn left on Yakima Valley Hwy (1.59 miles)
8. Turn left on Mellis Rd (0.3 miles)
9. Finish at 300 Mellis Road, 98951, on the right

Sunnyside Diversion Dam West Access Road

YAK-104.25R

Position - Location: 46° 30.100', -120° 27.097' 46° 30' 6.0", -120° 27' 5.8" 46.50167, -120.45161 Wapato

Strategy Objective: Deflection : Deflect oil away from the backwater channel on river right

Implementation: Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.501643, -120.451956). Extend boom downstream, across backwater channel. Secure at/near Point B (46.501048, -120.451377). Use shoreside anchoring systems or existing features to secure boom to banks or facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

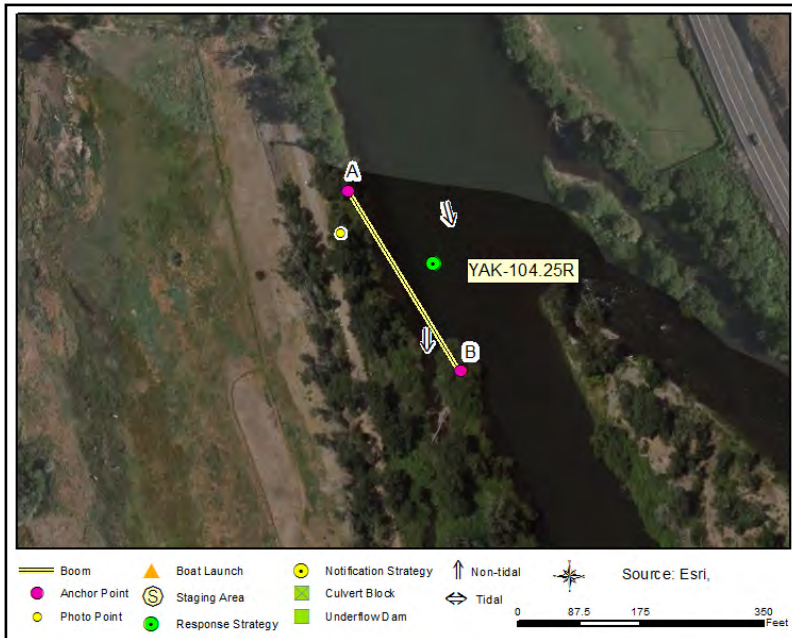
Staging Area: Onsite : Stage on dam access road with roadside parking adjacent to anchor point A at strategy location

Site Safety: Water Hazard; Downstream Diversion Dam; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch onsite. Notify Yakima Nation at 509-945-2939, site is on tribal land. Notify the Sunnyside Irrigation District at 509-837-6980 to coordinate access. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 0.4 miles upstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Fish Ladder(s), General Fish and Wildlife Resources, Tribal Lands/Resources



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
300 Feet	Boom - B3 (River Boom) or equivalent
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

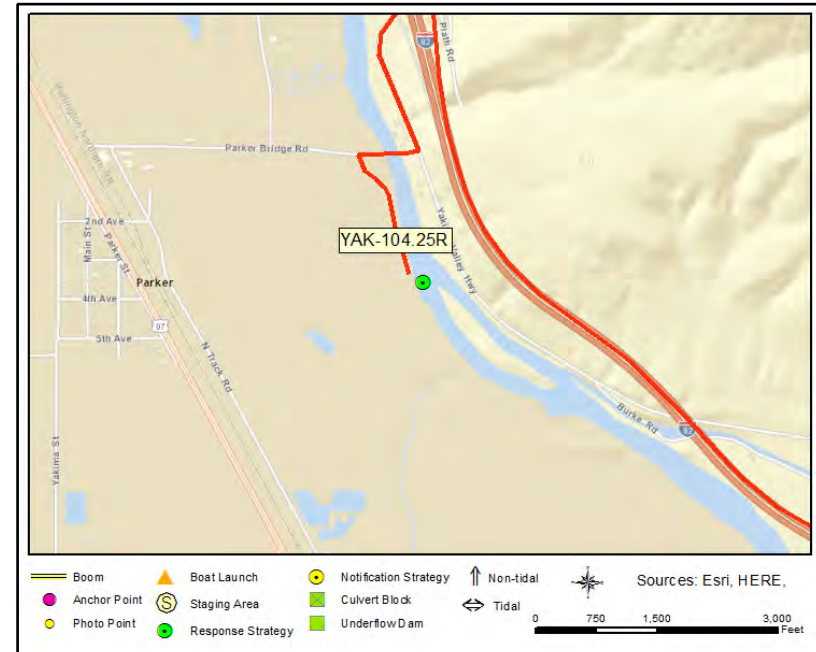
1	Boat Operator
2	Laborer
1	Supervisor

Sunnyside Diversion Dam West Access Road

YAK-104.25R



YAK-104.25R Photo: View looking downstream toward anchor point B, from shore near anchor point A for strategy YAK-104.25R



Site Contact

Sunnyside Valley Irrigation District

Land/Property Contact : Manages Sunnyside Diversion Dam & canal
509-837-6980

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

377 Parker Bridge Rd
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd (0.27 miles)
6. Cross the bridge and take the first left onto the Sunnyside Valley Irrigation District access road, finish at 46.501566, -120.451921 on the left (0.35 miles)

Parker Bridge

YAK-104.6L

Position - Location: 46° 30.372', -120° 27.203' 46° 30' 22.3", -120° 27' 12.2" 46.50620, -120.45338 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.506535, -120.453863). Extend ~100 ft of boom downstream toward river center and anchor at Point B (46.506457, -120.453566). Take ~100 ft of the remaining boom directly downstream and anchor at Point C (46.506193, -120.453273). Take the end of boom across the river and secure below bridge at/near Point D (46.506098, -120.452928). Use shoreside anchoring systems or existing features to secure boom to banks. Use small vac truck/skimmer portable storage to collect oil at Point D.

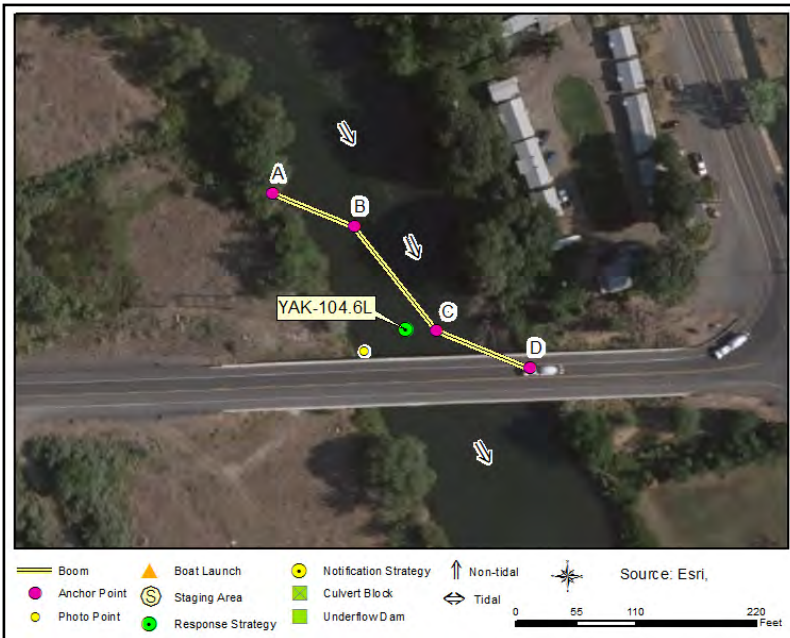
Staging Area: Onsite : Stage on the NE side of the Parker Bridge near Point D

Site Safety: Water Hazard; Traffic, Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch onsite. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Hand launch on site. Yakima River has extreme variability in seasonal flow

Watercourse: River - Below a Dam - Yakima River, 1.9 miles below the Wapato Dam

Resources at Risk: Sensitive Resources, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

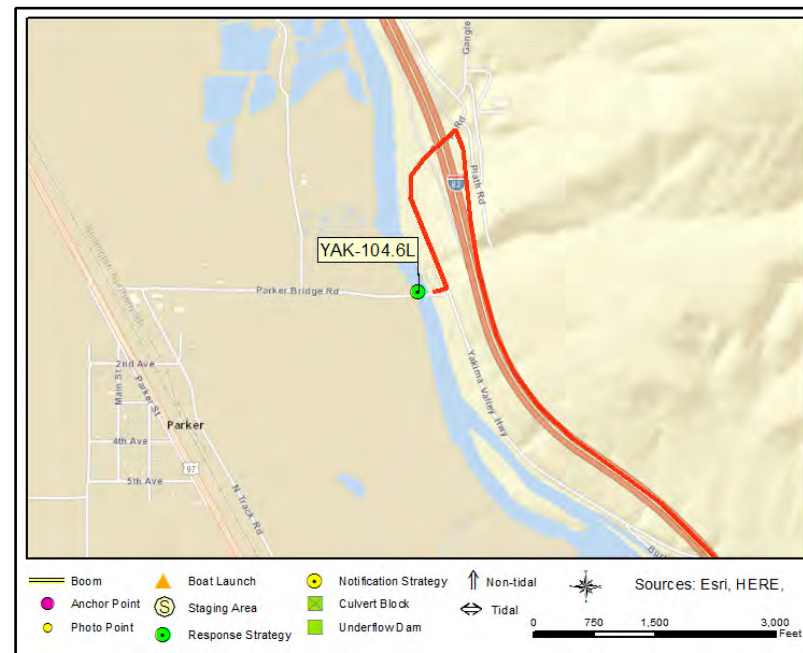
3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
400 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Winch - Come-A-Long
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-104.6L Photo: View of anchor point A for YAK-104.6L taken from the opposite shore



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

450 Yakima Valley Hwy
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd ()
6. Finish at 450 Yakima Valley Hwy, 98951, on the right on the NE side of the bridge

Parker Bridge Rd Backwater

YAK-105.8R

Position - Location: 46° 31.046', -120° 27.899' 46° 31' 2.7", -120° 27' 53.9" 46.51743, -120.46498 Wapato

Strategy Objective: Exclusion : Keep oil out of backwater area on river right

Implementation: Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.517148, -120.465788). Extend boom downstream, and across backwater channel on river right, securing it at/near Point B (46.517298, -120.464654.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

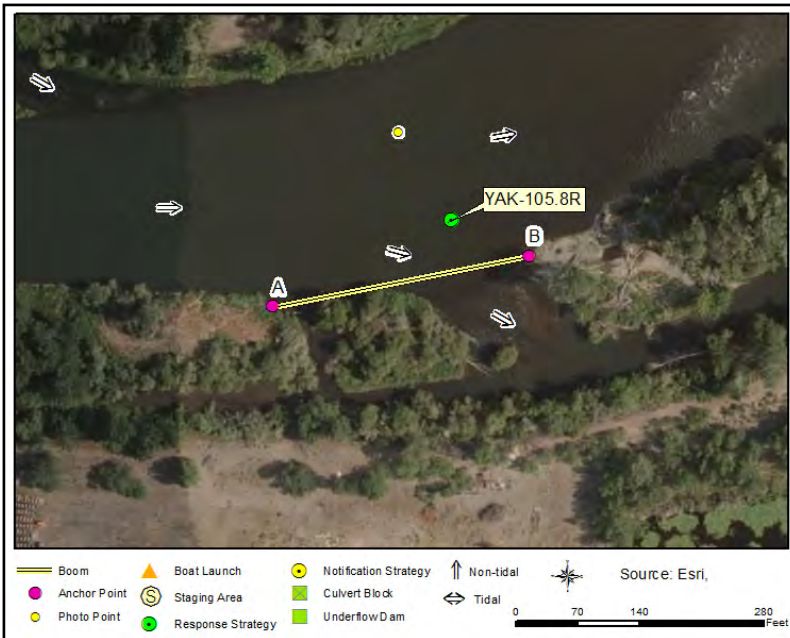
Staging Area: Remote : Stage at SA-YAK-106.3L, 0.2 Miles Downstream of the Wapato East Spillway

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch a small boat at BL-YAK-106.3L, 0.2 Miles Downstream of the Wapato East Spillway. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 0.7 miles downstream of the Wapato Diversion Dam

Resources at Risk: Backwater Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

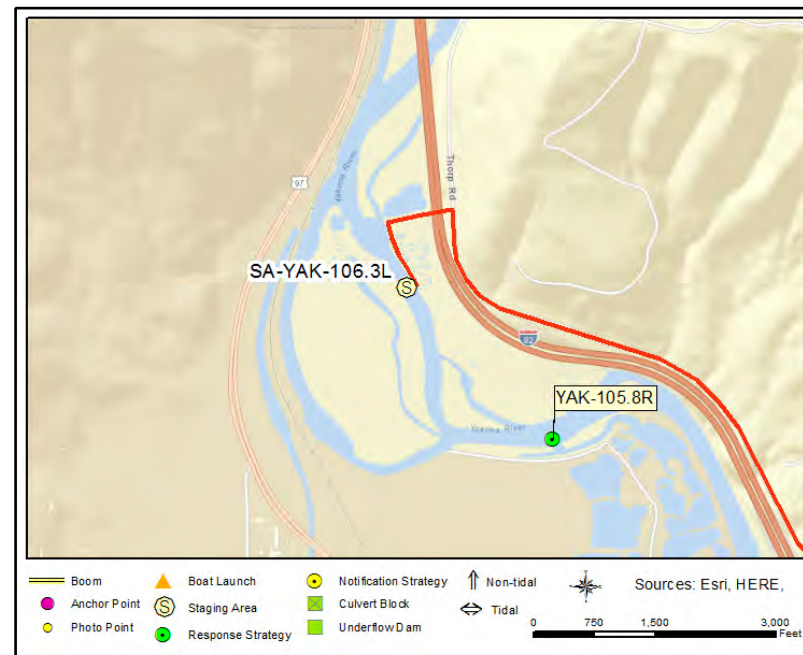
1	Boat Operator
2	Laborer
1	Supervisor

Parker Bridge Rd Backwater

YAK-105.8R



YAK-105.8R Photo: View of the backwater inlet off of Parker Bridge Road



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1811 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK106.3L/BL-YAK-106.3L) 0.2 Miles
Downstream of the Wapato East Spillway

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (2 miles)
4. Turn left to go under I-82 though the tunnel. Go past the Wapato spillway then follow the dirt/gravel drive to the left until you reach a stream crossing (0.3 miles).
5. Finish at BL/SA-YAK-106.3L

Just Upstream of the Wapato Diversion Dam

YAK-106.75R

Position - Location: 3° 54.495', 14° 47.565' 3° 54' 29.7", 14° 47' 33.9" 3.90825, 14.79275 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom to bank on river left at/near Point A (46.527998, -120.473982). Extend boom downstream, and across channel to river right, securing it at/near Point B (46.527111, -120.475539). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

Staging Area: Remote : Stage equipment & use boat launch at Century Landing (SA-YAK-107.1L & BL-YAK-107.1L)

Site Safety: Active Railroad, Diversion Dam Spillway; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3) and Yakama Nation (509-945-2939); strategy is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 0.25 miles upstream of the Wapato Diversion Dam

Resources at Risk: Federally Protected Area/Lands, Fish Ladder(s), Migratory Bird Populations, Tribal Lands/Resources, Waterfowl and Salmonid



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

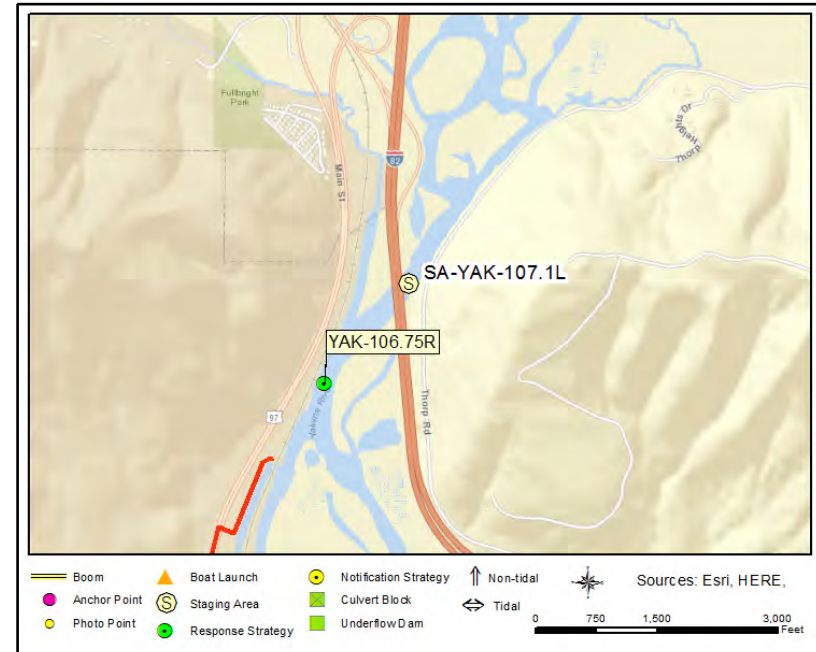
1	Boat Operator
2	Laborer
1	Supervisor

Just Upstream of the Wapato Diversion Dam

YAK-106.75R



YAK-106.75R Photo: Looking upstream from river right just above the Wapato Dam



Site Contact

Wapato Irrigation District (Bureau of Indian Affairs)
Land/Property Contact : Emergency contact
509-877-3155 ext. 3

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

Nearest Address

74713 US Highway 97
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.

Century Landing

YAK-107.1L

Position - Location: 46° 31.901', -120° 28.211' 46° 31' 54.0", -120° 28' 12.6" 46.53168, -120.47018 Wapato

Strategy Objective: Collection : Collect oil moving downriver.

Implementation: Using workboat, secure end of 800 ft boom to island (anchor point A). Extend boom downriver and anchor end to south of boat ramp. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

Staging Area: Onsite: Stage at SA-YAK-107.1 Century Landing

Site Safety: Water Hazard; Boat and Vehicle Traffic; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-107.1L Century Landing. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 0.6 miles upstream of the Wapato Dam

Resources at Risk: Marine Birds, Salmonids, Sensitive Resources, Shorebirds, Waterfowl, Waterfowl



Recommended Equipment

7 Each	Anchoring System(s) - (anchor, lines, floats)
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) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
3	Laborer
1	Supervisor



YAK-107.1L Photo: From boat ramp, looking north/upriver. Low water conditions (June).

Site Contact

Yakima Greenway Foundation

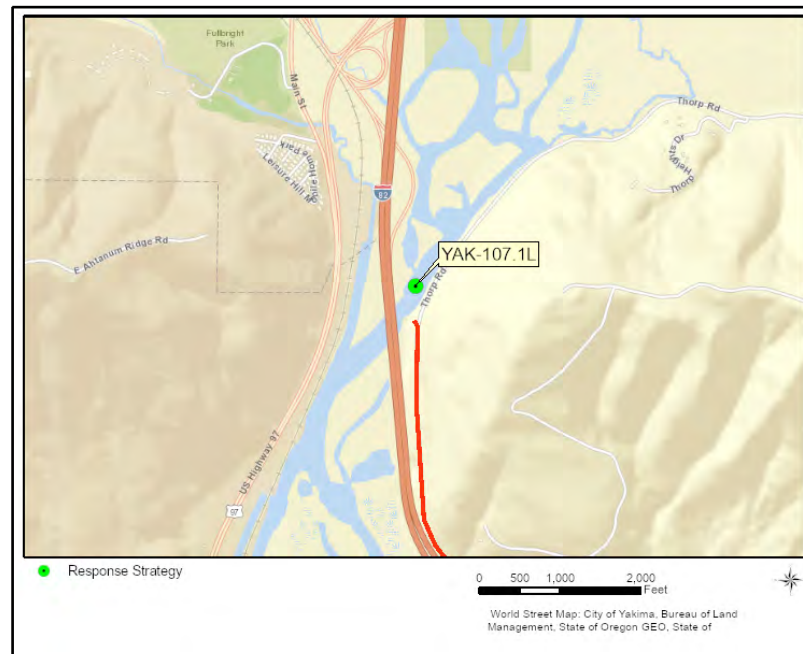
Land/Property Contact : Manages the Yakima Greenway and two boat launches
509-453-8280

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

82 Thorp Rd
Wapato, WA 98951



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.

Yakima River, River Mile 108.8 YAK-108.8L

Yakima River, River Mile 108.8 YAK-108.8L

Position - Location:	46° 33.103', -120° 28.064'	46° 33' 6.2", -120° 28' 3.8"	46.55172, -120.46773	Wapato
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Strategy Objective: Exclusion : Keep oil out of entrance to backwater area on river left

Implementation:	Using workboat, secure end of 200 ft of boom to bank on river left at/near Point A (46.55206, -120.46737,). Extend boom downstream across backwater channel on river left, securing it at/near Point B (46.55165, -120.46784). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.
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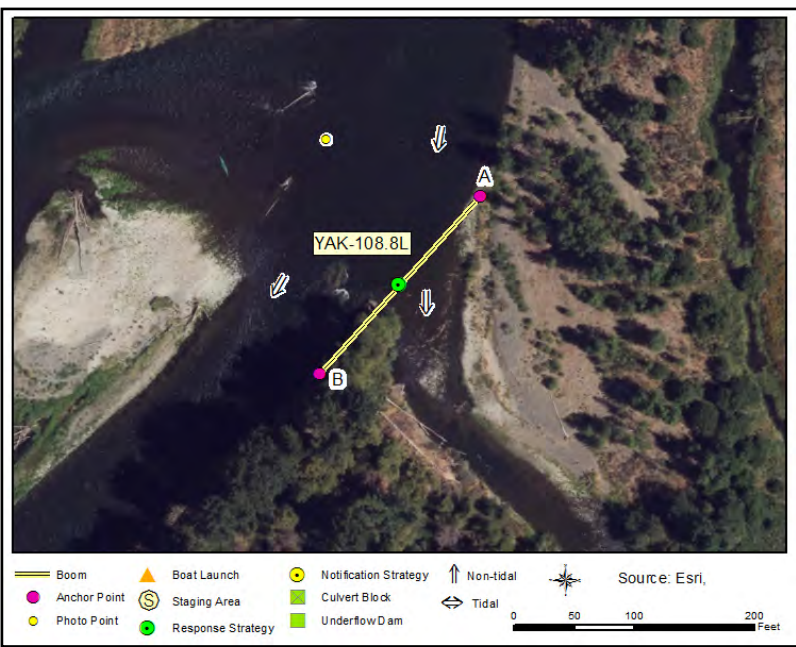
Staging Area: Remote : Stage at SA-YAK-107.1L Century Landing

Site Safety:	Water Hazard; Slips, Trips, Falls; Heavy Vegetation
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Field Notes: Yakima River has extreme variability in seasonal flow.

Watercourse:	River - Above a Dam - Yakima River, 2.3 miles upstream of the Wapato Dam.
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Resources at Risk: Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

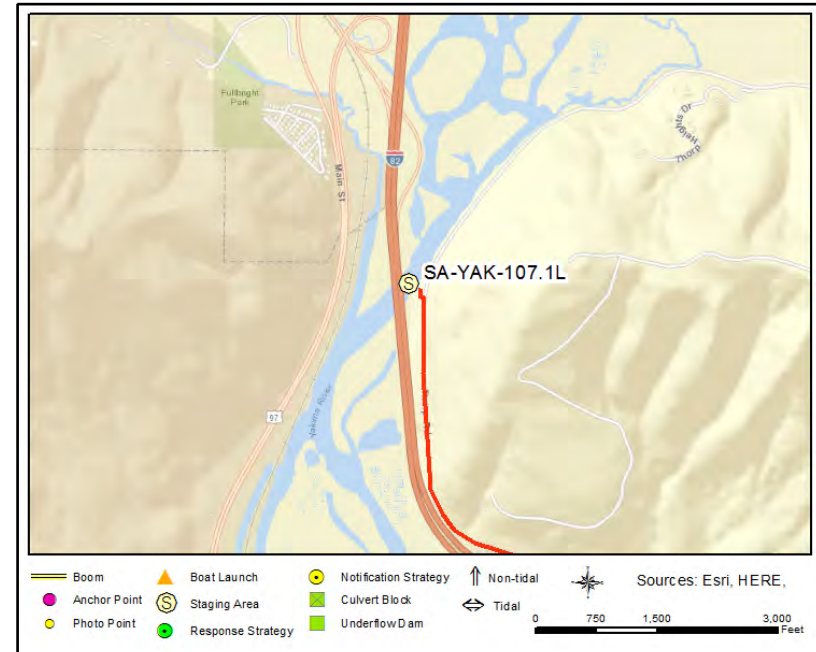
2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - (hand-launch)

Recommended Personnel	
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1	Boat Operator
2	Laborer
1	Supervisor



YAK-108.8L Photo: Photo Not Available



Site Contact

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

82 Thorp Rd
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.7 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (1.83 miles)
4. Finish at 82 Thorp Road, 98951, on the left

Yakima River, River Mile 110.0

YAK-110.0M

Position - Location: 46° 33.964', -120° 27.918' 46° 33' 57.9", -120° 27' 55.1" 46.56607, -120.46530 Union Gap

Strategy Objective: Deflection : Keep oil away from entrance to backwater area on river left.

Implementation: Using hand launch workboat, secure end of 200 ft of boom to bank on river left at/near Point A (46.56632, -120.46516). Use shoreside anchoring systems or existing features to secure boom to bank. Extend boom downstream toward the middle of the river and secure at/near Point B (46.56586, -120.46552). Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Onsite : Stage off of the Yakima City Greenway Trail

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch on river right off of the Yakima City Greenway Trail, across the river from the strategy location. Contact the Yakima City Greenway Trail at 509-453-8280 to coordinate access, ok to cut lock if necessary. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 3.5 miles upstream of the Wapato Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

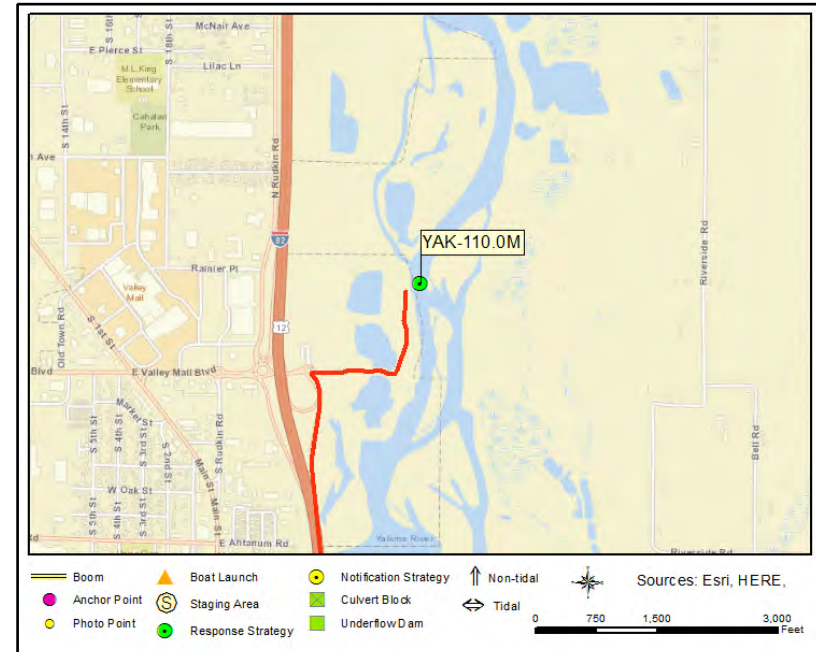
3 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
200 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-110.0M Photo: Looking SSW from river left near anchor point A.



Site Contact

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

1 East Valley Mall Blvd
Union Gap, WA 98903

Driving Directions

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (67.69 miles)
5. At exit 36 take ramp on the right to Valley Mall Blvd. toward Union Gap (0.37 miles)
6. At roundabout, go to the right into the parking lot for the Yakima Greenway Trail (0.1 miles)
7. Go through the gate onto the greenway trail and go north (~0.4) miles to staging area across from strategy location 46.565898, -120.466235. Use 1 East Valley Mall Blvd, 98903, as the address for your navigation system.

South of Yakima City Wastewater Facility

YAK-110.85R

Position - Location: 46° 34.532', -120° 27.909' 46° 34' 31.9", -120° 27' 54.5" 46.57553, -120.46515 Yakima

Strategy Objective: Exclusion : Keep oil out of entrance to backwater channel on river right

Implementation: Using hand launch workboat, secure end of 100 ft of boom to bank on river right, upstream of the backwater channel entrance, at/near Point A (46.575482, -120.465496). Extend boom downstream across the backwater channel, securing it on river right at/near Point B (46.575309, -120.465182). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Onsite : Stage off of the Yakima City Greenway Trail

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch onsite off the Yakima City Greenway Trail. Contact the Yakima City Wastewater Treatment Plant at 509-575-6077 to coordinate access. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 4.35 miles upstream of the Wapato Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
1	Each	Bolt Cutters
100	Feet	Boom - B3 (River Boom) or equivalent
2	Each	Heaving Line(s)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - (hand-launch)

Recommended Personnel

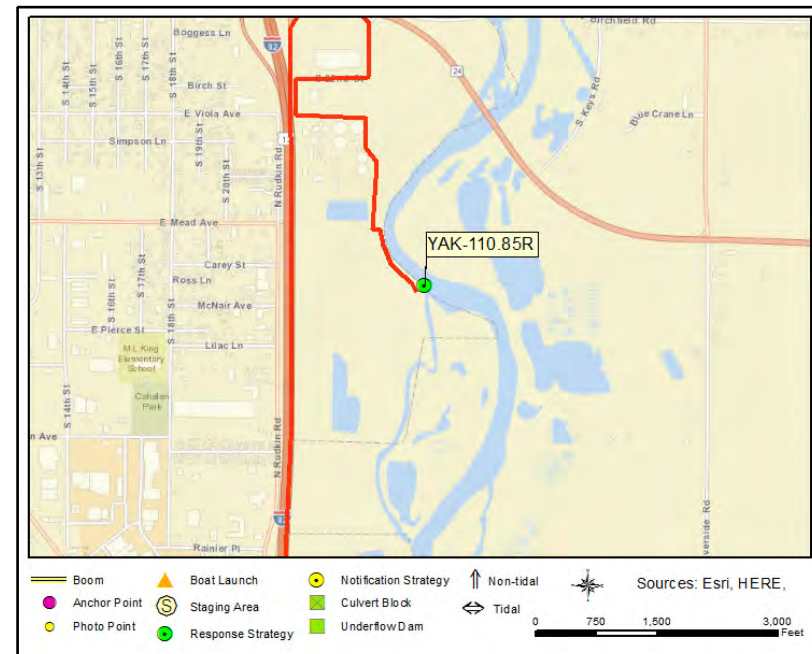
1	Boat Operator
2	Laborer
1	Supervisor

South of Yakima City Wastewater Facility

YAK-110.85R



YAK-110.85R Photo: Looking upstream toward a channel leading to backwater habitat south of the Yakima City Wastewater Facility



Site Contact

Yakima City Wastewater Division

Land/Property Contact : Yakima City wastewater facilities
24/7 number
509-575-6077

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway
and two boat launches
509-453-8280

Nearest Address

2220 E Viola Ave
Yakima, WA 98901

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (69.33 miles)
2. At exit 34 take ramp on the right to WA-24 E / Nob Hill Blvd. toward Moxee (0.18 miles)
3. Turn right on WA-24 (State Route 24) (0.18 miles)
4. Turn right on S 22nd St (0.43 miles)
5. Turn left on E Viola Ave (0.1 miles)
6. Contact Yakima Wastewater Treatment for access to 2220 E Viola Ave, 98901, on the right
7. Go south behind the building, past the retention pond, and onto the Yakima Greenway Trail, go left down the trail (0.17 miles)

Yakima Wastewater Treatment Plant

YAK-111.0R

Position - Location: 46° 34.674', -120° 28.022' 46° 34' 40.4", -120° 28' 1.3" 46.57790, -120.46703 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using hand launch workboat, secure end of 300 ft of boom to bank on river left at/near Point A (46.578171, -120.46644). Extend boom downstream, securing it mid-channel at/near Point B (46.577912, -120.466918). Then extend remaining boom across to river right, securing it at/near Point C (46.577554, -120.467187). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil @ Point C

Staging Area: Onsite : Stage on the Yakima Greenway Trail directly behind the Yakima Wastewater Treatment facility.

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch a small boat from shore (some areas have rip rap) off the Yakima Greenway Trail. Contact the Yakima City Wastewater Treatment facility at 509-575-6077 to coordinate access. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 4.5 miles upstream of the Wapato Diversion Dam

Resources at Risk: Backwater Habitat, Bird Habitat, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
300 Feet	Boom - B3 (Contractor Boom) or equivalent
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Yakima Wastewater Treatment Plant

YAK-111.0R



YAK-111.0R Photo: Looking upstream from the Yakima Greenway Trail behind the Yakima City Wastewater Treatment Facility

Site Contact

Yakima City Wastewater Division

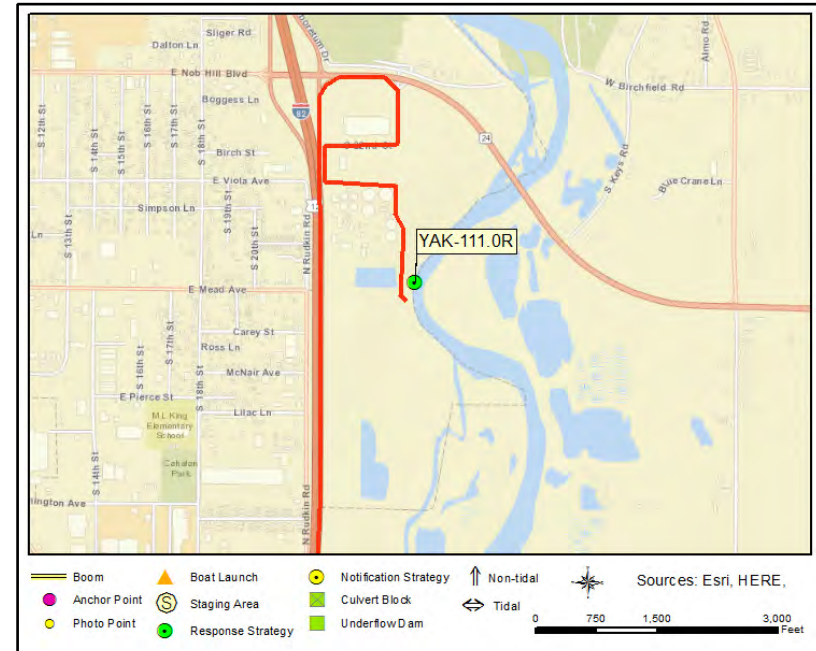
Land/Property Contact : Yakima City wastewater facilities
24/7 number
509-575-6077

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway
and two boat launches
509-453-8280

Nearest Address

2220 E Viola Ave
Yakima, WA 98901



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (69.33 miles)
2. At exit 34 take ramp on the right to WA-24 E / Nob Hill Blvd. toward Moxee (0.18 miles)
3. Turn right on WA-24 (State Route 24) (0.18 miles)
4. Turn right on S 22nd St (0.43 miles)
5. Turn left on E Viola Ave (0.1 miles)
6. Contact Yakima Wastewater Treatment for access to 2220 E Viola Ave, 98901, on the right
7. Go south behind the building, past the retention pond, and onto the Yakima Greenway Trail on the left. Stage at Point C (46.577554, -120.467187)

Dike Road below Terrace Heights Bridge

YAK-112.95L

Position - Location: 46° 36.196', -120° 28.261' 46° 36' 11.8", -120° 28' 15.6" 46.60327, -120.47101 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using hand launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.603413, -120.471608). Extend boom downstream, securing it mid-channel at/near Point B (46.603159, -120.470929). Then extend remaining boom across to river left, securing it at/near Point C (46.602953, -120.470586). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil

Staging Area: Onsite : Stage on Dike Road, gravel access road

Site Safety: Water Hazard; Slips, Trips, Falls; Dangerous Animals\Snakes; Large Woody Debris

Field Notes: Hand launch a small boat onsite. Coordinate with US Bureau of Reclamation at 509-406-3031 for access to Dike Road through the parking lot just downstream of the Terrace Heights Bridge on river left. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 6.45 miles upstream of the Wapato Diversion Dam

Resources at Risk: Backwater Habitat, Bird Habitat, City Park, Recreational Use Area, State Park, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
300 Feet	Boom - B3 (River Boom) or equivalent
300 Feet	Line - 3/8" poly line
1 Each	Vac Truck or Skimmer and Storage
1 Each	Winch - Power Winch
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

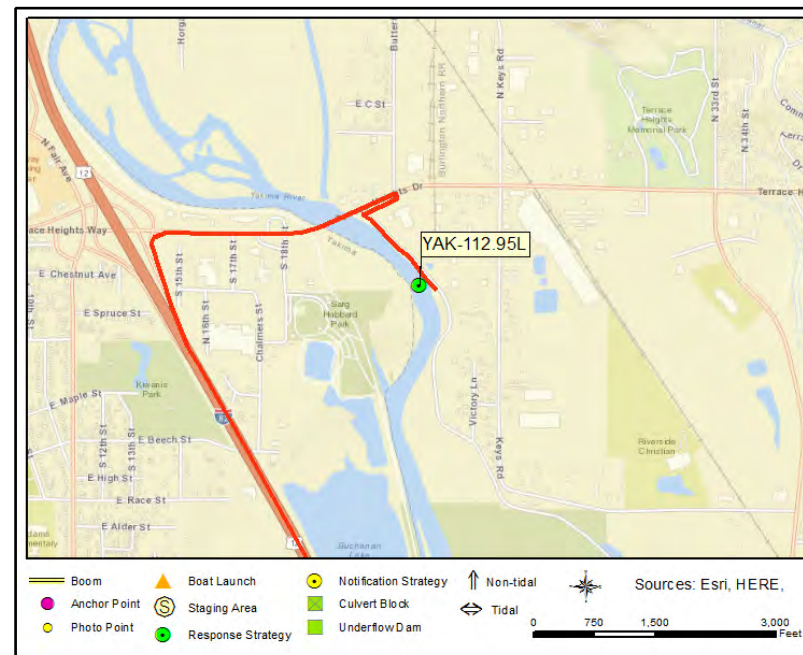
1	Boat Operator
2	Laborer
1	Supervisor

Dike Road below Terrace Heights Bridge

YAK-112.95L



YAK-112.95L Photo: View of river left where anchor point A is situated



Site Contact

US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058

509-406-3031

Nearest Address

2100 Terrace Heights Dr

Yakima, WA 98901

Driving Directions

1. Head west from West Richland on I-82 W (62.86 miles)
2. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
3. At fork keep right on Terrace Hts (0.16 miles)
4. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles) turn into 2100 Terrace Heights Dr, the first parking lot on the right after crossing the bridge (NC Machinery Co)
5. The gate to Dike Rd is at the NW corner of the parking lot. Go through gate (bring bolt cutters) and turn left onto Dike Rd (0.25 miles)
6. Finish at Dike Road, Yakima 98901, on the right. Use 2100 Terrace Heights Dr, 98901 for your navigation system.

Hartford Road backwater area

YAK-114.3L

Position - Location: 46° 36.817', -120° 29.155' 46° 36' 49.0", -120° 29' 9.3" 46.61361, -120.48591 Yakima

Strategy Objective: Collection : Collect oil moving downstream on channel off Hartford Road

Implementation: Secure end of 100 ft of boom to bank on river left, near Hartford Rd, at/near Point A (46.61308, -120.48596). Using line, extend boom downstream, across canal, securing it to opposite bank at/near Point B (46.61363, -120.486). Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. If oil collecting beyond sorbent's capacity, use skimmer/storage to collect.

Staging Area: Onsite : Park at end of road and stage in grass/dirt beside side channel

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Backwater channel may be seasonal. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 13.7 miles downstream of the Roza Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

4 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2 Laborer
1 Supervisor

Hartford Road backwater area

YAK-114.3L

No Photograph Available

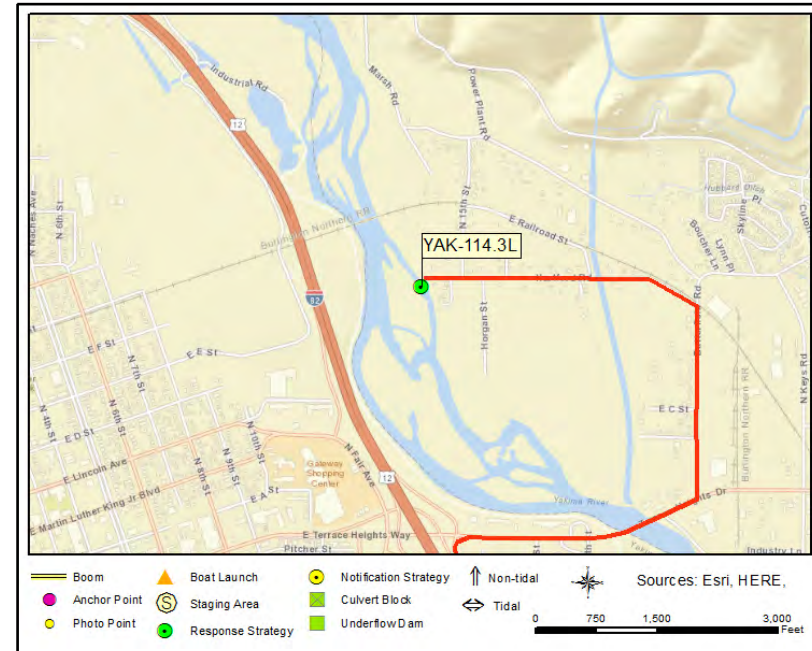
YAK-114.3L Photo: No Photo Available

Site Contact

No Information
Not Determined :

Nearest Address

1406 Hartford Rd
Yakima, WA 98901



Driving Directions

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (70.8 miles)
5. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
6. At fork keep right on Terrace Hts (0.16 miles)
7. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles)
8. Turn left on Butterfield Rd (0.45 miles)
9. Turn left on Hartford Rd (0.66 miles)
10. Finish at 1406 Hartford Rd, 98901, on the left

Marsh Road

YAK-115.0L

Position - Location: 46° 37.337', -120° 29.412' 46° 37' 20.2", -120° 29' 24.7" 46.62229, -120.49020 Yakima

Strategy Objective: Exclusion : Keep oil out of channel adjacent to Marsh Road on river left

Implementation: Secure end of 100 ft of boom to bank on river left, off of Marsh Road, at/near Point A (46.622463, -120.490269). Extend boom downstream, across the canal, securing it at/near Point B (46.622202, -120.490117). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Onsite : Stage at the end of the spit on a dirt road next to the canal off of Marsh Rd

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Gravel road conditions may vary. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 13 miles downstream of the Roza Dam

Resources at Risk: Backwater Habitat, Economic Resource



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Line throwing gun(s) or device(s)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Winch - Come-A-Long

Recommended Personnel

2	Laborer
1	Supervisor

Marsh Road

YAK-115.0L



YAK-115.0L Photo: View of the inlet to the canal that runs adjacent to Marsh Rd and eventually feeds into the Union Gap screen

Site Contact

No Information
Not Determined :

Nearest Address

1214 Marsh Road
Yakima, WA 98901



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (69.15 miles)
3. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
4. At fork keep right on Terrace Hts (0.16 miles)
5. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles)
6. Turn left on Butterfield Rd (0.5 miles)
7. Turn left on Marsh Rd (1.0 miles) then turn onto the dirt track on the left just before the canal
8. Finish at 1214 Marsh Road, 98901, on the left

1201 Rest Haven Road

YAK-116.0L

Position - Location: 46° 37.827', -120° 30.509' 46° 37' 49.6", -120° 30' 30.5" 46.63045, -120.50848 Yakima

Strategy Objective: Exclusion : Keep oil out of backwater area on river left

Implementation: Using workboat, secure end of 100 ft of boom to bank on river left, off of Rest Haven Road, at/near Point A (46.63062, -120.508402). Extend boom downstream, in a chevron formation in front of the canal, securing it at/near Point B (46.630502, -120.508393). Then extend remaining boom across the canal, securing it on river left at/near Point C (46.630546, -120.508127). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Remote : Stage at SA-YAK-116.7L, Harlan Landing

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-116.7L, Harlan Landing. Yakima River has extreme variability in seasonal flows

Watercourse: River - Below a Dam - Yakima River, 12 miles downstream from Roza Diversion Dam

Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



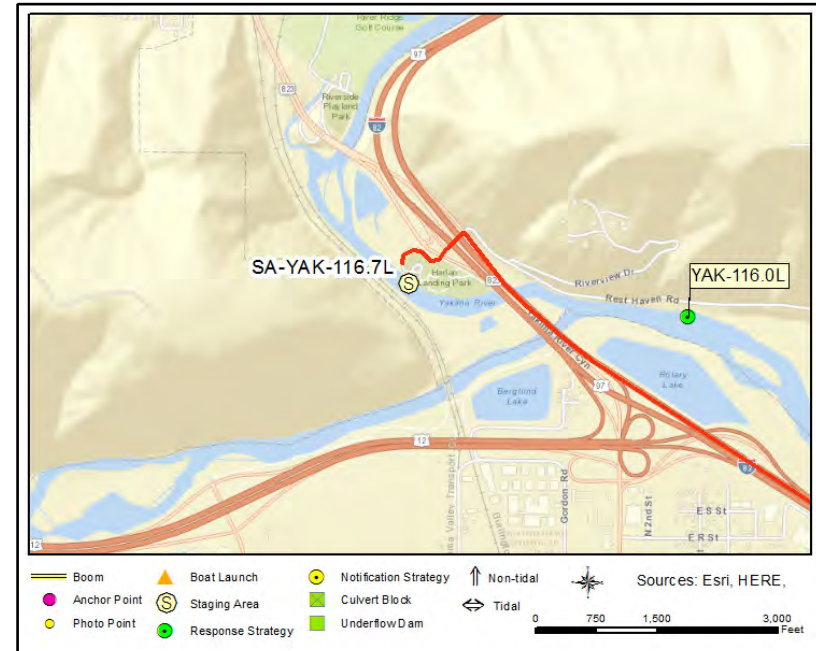
YAK-116.0L Photo: View of the mouth of the backwater channel off Rest Haven Road

Site Contact

No Information
Not Determined :

Nearest Address

41 Rovetto Road
Yakima, WA 98901



Driving Directions

1. Head north from West Pasco on N Road 68 toward Argent Rd (1.45 miles)
2. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
3. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (71.91 miles)
4. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
5. Turn left on Rest Haven Rd toward Selah (0.08 miles)
6. Continue on Rovetto Rd (0.13 miles)
7. Finish at 41 Rovetto Road, 98901, on the left

North end of Harlan Landing Park

YAK-116.8L

Position - Location: 46° 37.954', -120° 31.457' 46° 37' 57.3", -120° 31' 27.4" 46.63257, -120.52428 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 400 ft of boom to bank on river right at/near Point A (46.63277, -120.524967). Extend boom downstream, toward mid-river, securing it at/near Point B (46.632658, -120.52432). Then extend remaining boom across to river left, securing it at/near Point C (46.632411, -120.523464.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C

Staging Area: Onsite : Stage equipment & use boat launch on site at Harlan Landing (SA-YAK-116.7L & BL-YAK-116.7L)

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Use plywood to ease access over heavy brush at river's edge. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 11.2 miles below Roza Diversion Dam

Resources at Risk: Boat Launch/Ramp, Habitat and Waterfowl, Public Recreation Site/Area



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
400 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
2 Each	Plywood sheets (4ft x 4ft)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

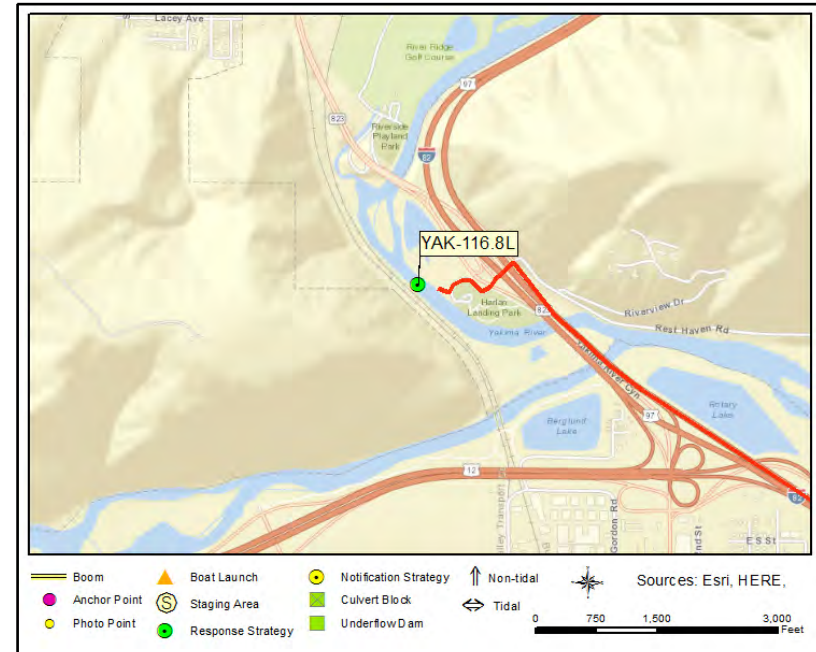
1	Boat Operator
2	Laborer
1	Supervisor

North end of Harlan Landing Park

YAK-116.8L



YAK-116.8L Photo: View upstream from shore near anchor point B for YAK-116.8L at Harlan Landing



Site Contact

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches
509-453-8280

BNSF Railroad

Emergency Contact : Service Interruption Desk
817-352-2832

Nearest Address

41 Rovetto Road
Yakima, WA 98901

Driving Directions

1. Head west from West Richland on I-82 W (65.62 miles)
2. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
3. Turn left on Rest Haven Rd toward Selah (0.08 miles)
4. Continue on Rovetto Rd (0.13 miles)
5. Finish at 41 Rovetto Road, 98901, on the left.
6. Strategy is located at first turn off to the right, at 46.632411, -120.523464, but the Harlan Landing boat launch, BL-YAK-116.7L, is at the end of the road in the park.

Golf Club Road Water Viewing Platform

YAK-117.2R

Position - Location: 46° 38.284', -120° 31.468' 46° 38' 17.0", -120° 31' 28.1" 46.63806, -120.52447 Selah

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 300 ft of boom to bank on river left at/near Point A(46.637808, -120.524814). Extend boom downstream, toward mid-river, securing it at/near Point B(46.638282, -120.524322). Then extend remaining boom across to river right, securing it at/near Point C(46.638407, -120.5239201.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C

Staging Area: Onsite : Stage at parking area for Riverside Playland Park

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-116.7L, Harlan Landing Park. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 10.8 miles downstream from the Roza Dam

Resources at Risk: City Park, Great Blue Heron Rookeries, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Golf Club Road Water Viewing Platform

YAK-117.2R



YAK-117.2R Photo: Looking upstream from the viewing platform at Playland Riverside Park

Site Contact

City of Selah

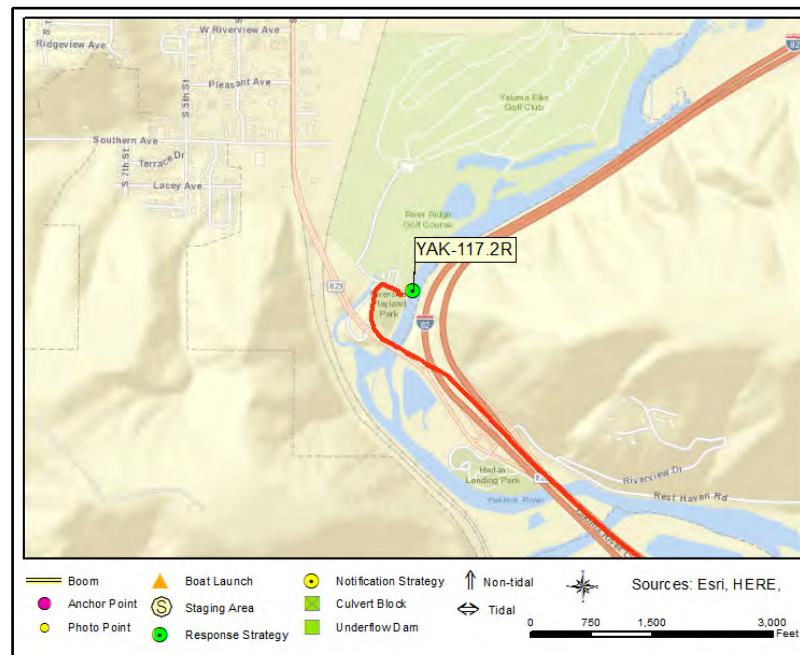
Land/Property Contact : Parks and Recreation

Selah, WA 98942

509-698-7300

Nearest Address

318 Golf Course Loop Road
Selah, WA 98942



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At exit 30A turn right on Golf Course Loop Rd (0.14 miles)
6. Make sharp right to stay on Golf Course Loop Rd (0.02 miles)
7. Finish at 318 Golf Course Loop Road, 98942, on the right

Golf Course Road Wetlands

YAK-117.5R

Position - Location: 46° 38.453', -120° 31.174' 46° 38' 27.2", -120° 31' 10.4" 46.64088, -120.51956 Yakima

Strategy Objective: Exclusion : Keep oil out of entrance to backwater area on river right

Implementation: Using workboat, secure end of 200 ft of boom to bank on river right at/near Point A (46.641369, -120.518733,). Extend boom downstream, across entrance to backwater area, securing it at/near Point B (46.641113, -120.519462). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Remote : Stage at SA-YAK-116.7L, Harlan Landing Park

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-116.7L, Harlan Landing Park. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 10.5 miles downstream of the Roza Dam

Resources at Risk: Backwater Habitat, Emergent Wetlands, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

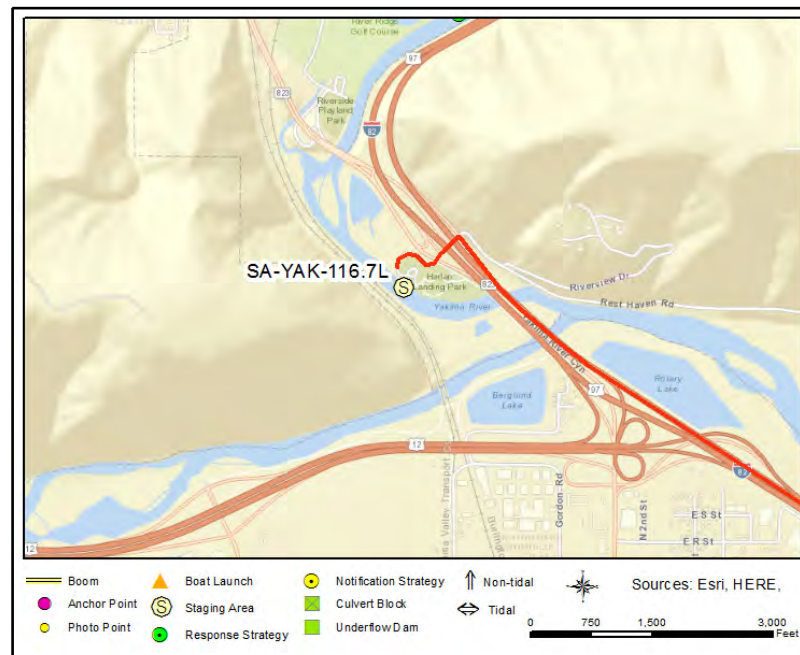
2	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
200	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-117.5R Photo: Looking into the downstream entrance to the backwater area by the golf course



Site Contact

No Information
Not Determined :

Nearest Address

41 Rovetto Road
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK116.7L/BL-YAK-116.7L) Harlan Landing Park

1. Head west from West Pasco on N Road 68 toward Argent Rd (1.45 miles)
2. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
3. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (71.91 miles)
4. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
5. Turn left on Rest Haven Rd toward Selah (0.08 miles)
6. Continue on Rovetto Rd (0.13 miles)
7. Finish at 41 Rovetto Rd, 98901, on the left

Behind Monson Fruit on Rushmore Rd YAK-119.1R

Behind Monson Fruit on Rushmore Rd YAK-119.1R

Position - Location:	46° 39.381', -120° 30.518'	46° 39' 22.9", -120° 30' 31.1"	46.65635, -120.50863	Selah
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Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation:	Using workboat, secure end of 400 ft of boom to bank on river left at/near Point A (46.6566, -120.507116,). Extend boom downstream to mid-river, securing it at/near Point B (46.656571, -120.507805). Then extend remaining boom across to river right, securing it at/near Point C (46.656354, -120.508634). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use skimmer/storage to collect oil at/near Point C.
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Staging Area: Onsite : Gravel drive with room for staging, may need to cut fence

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes:	Launch at BL-YAK-116.7L, Harlan Landing. In some conditions you may be able to hand launch a small boat onsite. Yakima River has extreme variability in seasonal flows.
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Watercourse: River - Below a Dam - Yakima River, 8.9 miles downstream of Roza Dam

Resources at Risk: Emergent Wetlands, Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

5	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
1	Each	Bolt Cutters
400	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Behind Monson Fruit on Rushmore Rd

YAK-119.1R



YAK-119.1R Photo: View of the shoreline on river right



Site Contact

No Information
Not Determined :

Nearest Address

701 S Rushmore Road
Selah, WA 98942

Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At fork keep left on WA-823 N toward Selah (0.9 miles)
6. Turn right at S 1st St / W Valleyview Ave to stay on WA-823 (Wenas Ave) (0.43 miles)
7. Turn right on E Naches Ave (0.38 miles)
8. Go across Rushmore Rd into the parking lot of Monson Fruit, go around to the back of the building and turn right onto a gravel drive. Follow the gravel drive until you reach the strategy location 46.656638, -120.508441.
9. Use 701 S. Rushmore Road, 98942 for you navigation system

Harrison Road Bridge

YAK-121.3L

Position - Location: 46° 40.798', -120° 29.452' 46° 40' 47.9", -120° 29' 27.1" 46.67996, -120.49087 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.6566, -120.491277,). Extend boom downstream to mid-river, securing it at/near Point B (46.679993, -120.491076). Then extend remaining boom across to river left, under the bridge, securing it at/near Point C (46.679483, -120.491012). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use skimmer/storage to collect oil at/near Point C.

Staging Area: Onsite : Very rough gravel drive with room to stage several vehicles under the bridge

Site Safety: Water Hazard; Huge Pot Holes in Gravel Drive; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-116.7L, Harlan Landing. In some conditions you may be able to hand launch a small boat onsite. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 6.7 miles downstream of the Roza Dam.

Resources at Risk: Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3	Each	Anchoring System(s) - (anchor, lines, floats)
2	Each	Anchoring System(s)- Shoreside
300	Feet	Boom - B3 (River Boom) or equivalent
1	Each	Bridle(s) - Towing (appropriately sized for boom)
400	Feet	Line - 3/8" poly line
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Skimmer (appropriately sized) with Portable Storage
1	Each	Winch - Come-A-Long
1	Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor

Harrison Road Bridge

YAK-121.3L



YAK-121.3L Photo: View upriver from underneath the Harrison Road bridge

Site Contact

WSDOT

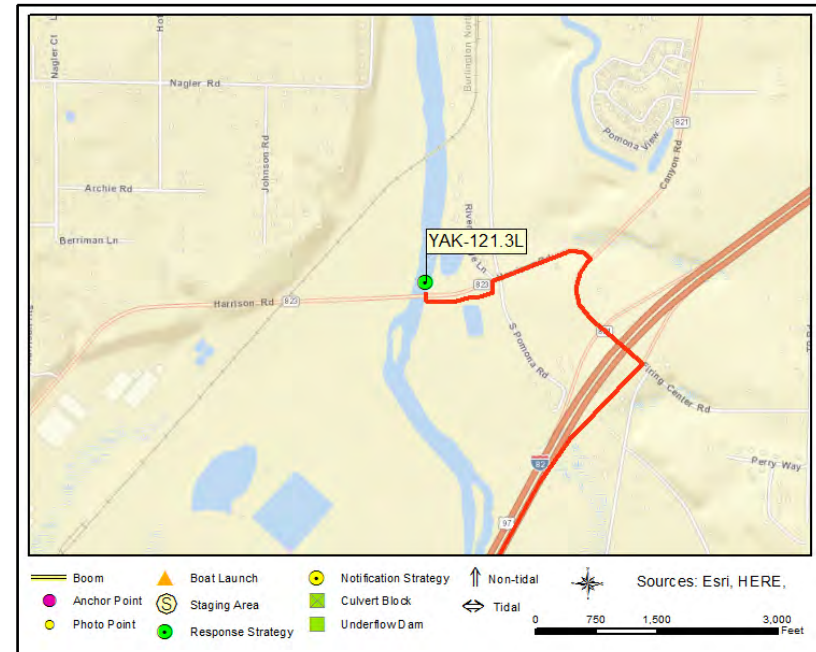
Land/Property Contact : S Central Region Traffic
Management/WSP District 3
509-577-1990

No Information

Not Determined :

Nearest Address

61 Rivers Edge Lane
Yakima, WA 98901



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
4. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
5. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
6. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
7. Make sharp left on WA-821 (Firing Center Rd) (0.32 miles)
8. Make sharp left on Harrison Rd (WA-823) toward WA-823 S / Selah (0.24 miles)
9. Bear left across from Rivers Edge Ln and follow the gravel road as it runs adjacent to the highway until it ends underneath the Harrison Road bridge (0.5 miles)
10. Finish underneath the Harrison Road Bridge, across from Rivers Edge Lane, 98901

Above the Taylor Canal Head Gate

YAK-122.15R

Position - Location: 46° 41.471', -120° 29.534' 46° 41' 28.3", -120° 29' 32.0" 46.69119, -120.49223 Selah

Strategy Objective: Collection : Collect oil moving downstream in Taylor Canal, upstream of the headgate

Implementation: Secure mid-point of 100 ft of boom to bank on canal right at/near Point A (46.691166, -120.492333). Using line, extend boom upstream ~65 ft and across to canal left; secure end to bank at/near Point B. Extend remaining boom from Point A upstream and across to canal left. Secure end at/near Point C. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use vac truck or skimmer/storage for collection.

Staging Area: Onsite : Gravel parking area with room for staging

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation; Dangerous Animals\Snakes; Heavy Vegetation

Field Notes: Notify the US Bureau of Reclamation at 509-406-3031 before deployment. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Side Channel - Yakima River, 5.85 miles downstream of the Roza Dam, upstream of the Taylor Canal headgate

Resources at Risk: Water Intakes



Recommended Equipment

1	Each	Anchoring System(s) - (anchor, lines, floats)
3	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Line throwing gun(s) or device(s)
1	Each	Machete(s) - (or other vegetation cutting tool)
1	Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2	Laborer
1	Supervisor

Above the Taylor Canal Head Gate

YAK-122.15R



YAK-122.15R Photo: View of the entrance to Taylor Canal from atop the headgate

Site Contact

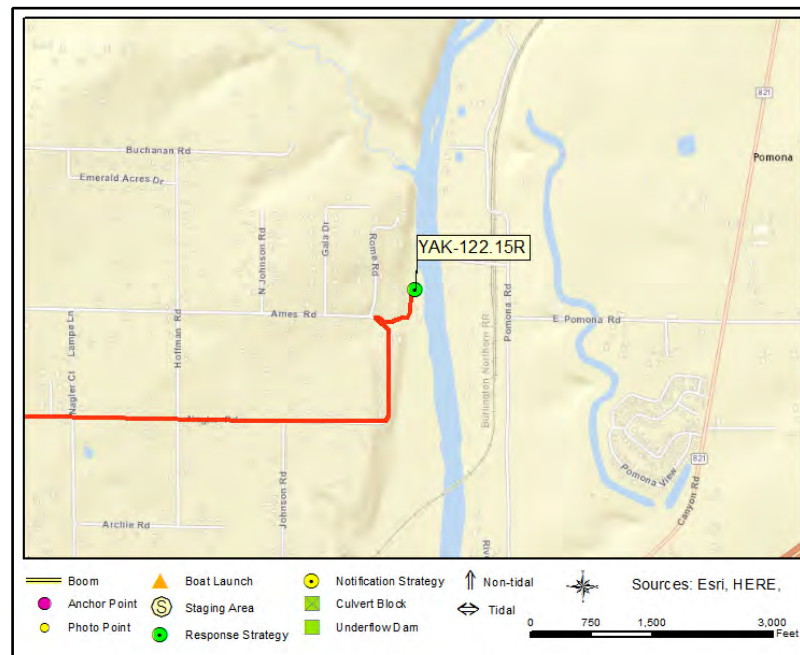
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

1199 Ames Rd
Selah, WA 98942



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At fork keep left on WA-823 N toward Selah (0.9 miles)
6. Turn right at S 1st St / W Valleyview Ave to stay on WA-823 (Wenas Ave) (0.43 miles)
7. Bear right on N Wenas Rd (WA-823) (1.24 miles)
8. At fork keep left on N Wenas Rd (WA-823) (1.14 miles)
9. Turn right on Nagler Rd (1.4 miles)
10. Bear right on Ames Road just before Rome Rd (0.1)
11. Finish at 1199 Ames Road, 98942, on the left

Entrance to the Taylor Canal

YAK-122.2M

Position - Location: 46° 41.549', -120° 29.524' 46° 41' 32.9", -120° 29' 31.4" 46.69248, -120.49206 Selah

Strategy Objective: Diversion : Divert oil into entrance of Taylor Canal for collection

Implementation: Using hand launch workboat, secure end of 300 ft of boom mid-channel on the Yakima River at/near Point A (46.693115, -120.491707,). Extend boom downstream toward river right, securing it at/near Point B (46.692916, -120.4919). Then extend remaining boom downstream, securing it to the spit of land at/near Point C (46.692306, -120.491956). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Onsite : Stage at parking area for Taylor Canal head gate

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation.

Field Notes: Hand launch onsite above the Taylor Canal headgate, being mindful of boom deployed for YAK-122.15R. Notify the US Bureau of Reclamation at 509-406-3031 before deployment. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 5.8 miles downstream of the Roza Dam, at the entrance to the Taylor Canal

Resources at Risk: Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - (hand-launch)

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor

Entrance to the Taylor Canal

YAK-122.2M



YAK-122.2M Photo: Upstream view taken from spit of land adjacent to Taylor Canal head gate

Site Contact

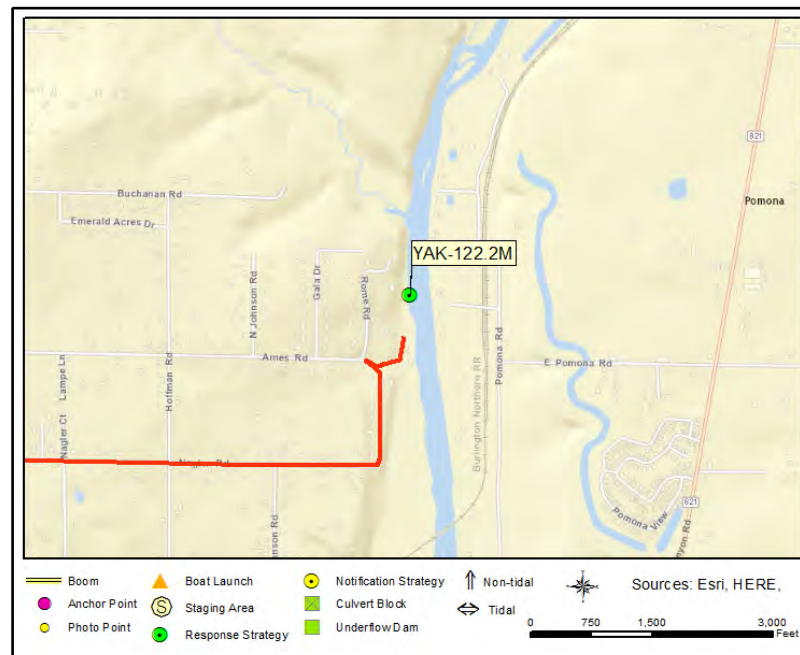
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

1199 Ames Road
Selah, WA 98942



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At fork keep left on WA-823 N toward Selah (0.9 miles)
6. Turn right at S 1st St / W Valleyview Ave to stay on WA-823 (Wenas Ave) (0.43 miles)
7. Bear right on N Wenas Rd (WA-823) (1.24 miles)
8. At fork keep left on N Wenas Rd (WA-823) (1.14 miles)
9. Turn right on Nagler Rd (1.4 miles)
10. Bear right on Ames Road just before Rome Rd (0.1)
11. Finish at 1199 Ames Road, 98942, on the left

Roza Diversion Dam

YAK-128.05R

Position - Location: 4° 38.384', 14° 48.655' 4° 38' 23.0", 14° 48' 39.3" 4.63973, 14.81092 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom on river left at/near Point A (46.752339, -120.465924). Extend boom downstream to mid-channel, securing it at/near Point B (46.751847, -120.466482). Extend remaining boom to river right, securing it at/near Point C (46.751053, -120.466664). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

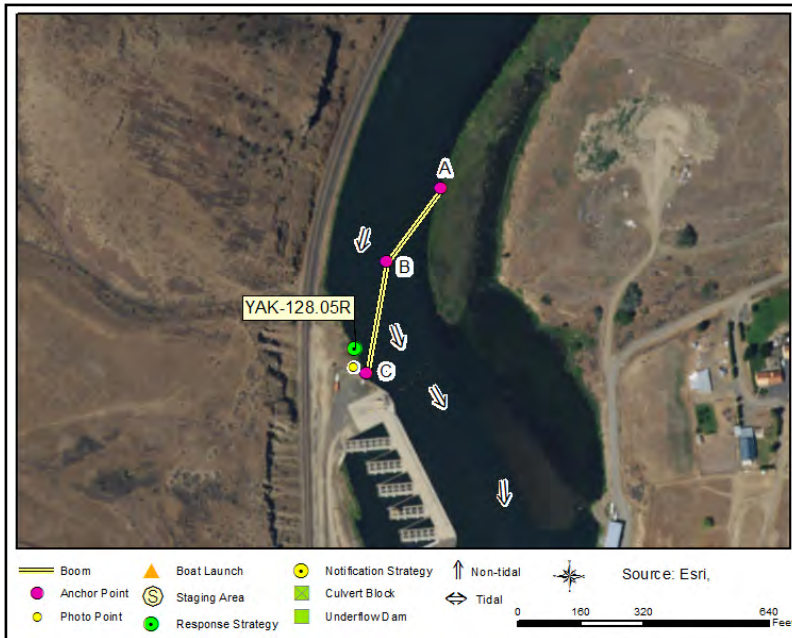
Staging Area: Onsite : Stage equipment and use boat launch onsite at the Roza Recreation Area (SA-YAK-129.4L & BL-YAK-129.4L)

Site Safety: Water Hazard; Active RR Tracks; Do Not Cross Boat Safety Cable Above Dam; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate access/safety with USBOR (509-406-3031); stay upstream of Dam's safety cable.

Watercourse: River - Above a Dam - Yakima River, 0.5 miles upstream of Roza Diversion Dam

Resources at Risk: Canyon/Riparian Habitat, Fish Ladder(s), Fish Pens, Freshwater Wildlife, Public Lands/Facilities



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
100 Feet	Line - 3/8" poly line
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Roza Diversion Dam

YAK-128.05R



YAK-128.05R Photo: View of anchor point A, forming the collection pocket, above Roza Diversion Dam

Site Contact

US Bureau of Reclamation

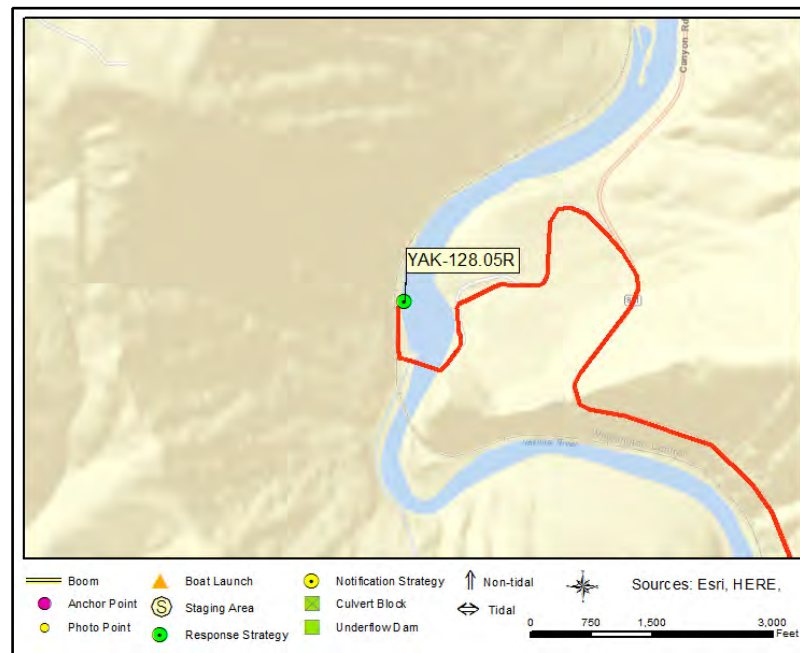
Land/Property Contact : Yakima Field Office Manager
509-406-3031

BNSF Railroad

Emergency Contact : Service Interruption Desk
817-352-2832

Nearest Address

6624 WA 821
Yakima, WA 98901



Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
3. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
4. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
5. Make sharp left on WA-821 (Firing Center Rd) (6 miles)
6. Turn left onto driveway to the Dam, keep left until you pass over the dam then bear right to drive between the fence and the railroad right of way.
7. Finish at the Roza Dam 6624 WA 821, 98901

Roza Recreation Area

YAK-129.4R

Position - Location: 46° 45.830', -120° 27.439' 46° 45' 49.8", -120° 27' 26.3" 46.76383, -120.45731 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 300 ft of boom to river left, upstream of the boat launch, at/near Point A (46.764207, -120.457644). Extend boom downstream to mid-channel, securing it at/near Point B (46.764019, -120.457858). Then extend remaining boom to river right, securing it at/near Point C (46.763431, -120.457264). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use skimmer/storage to collect oil at/near Point C

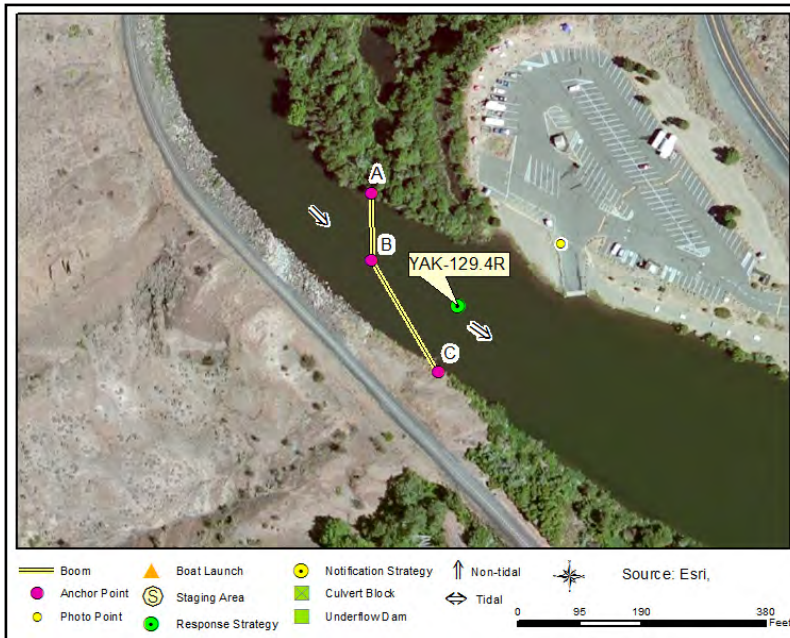
Staging Area: Remote : Stage equipment and use boat launch onsite at the Roza Recreation Area (SA-YAK-129.4L & BL-YAK-129.4L)

Site Safety: Water Hazard; Active RR Tracks; Dangerous Animals\Snakes; Slips, Trips, Falls; Vehicle/Boat/Pedestrian Traffic; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 1.4 miles above Roza Dam

Resources at Risk: Boat Launch/Ramp, Federally Protected Area/Lands, Freshwater Wildlife, Recreational Use Area



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
1 Each	Bolt Cutters
300 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Skimmer (appropriately sized) with Portable Storage
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1	Boat Operator
2	Laborer
1	Supervisor



YAK-129.4R Photo: View of anchor point B across the river from the boat launch at Roza Rec Area

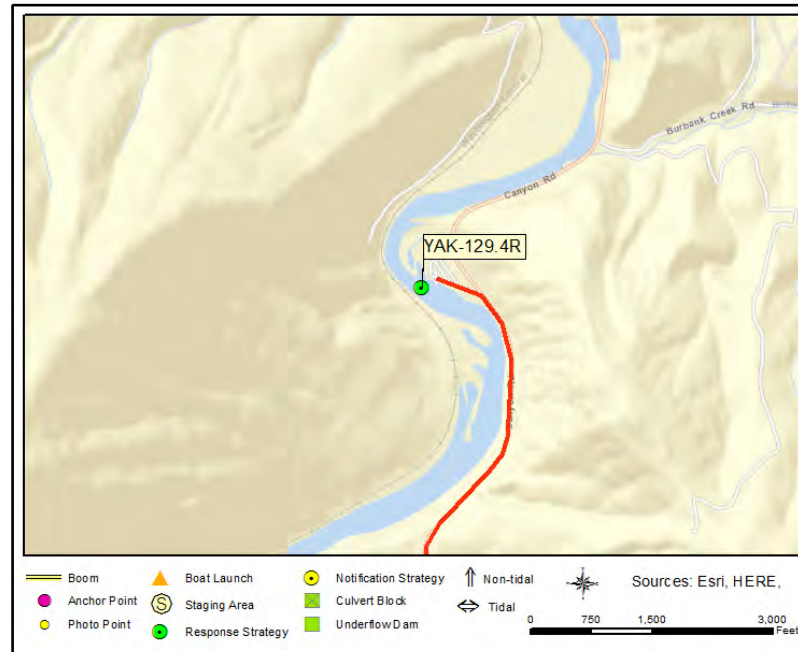
Site Contact

Bureau of Land Management
Primary Contact : Wenatchee Office
509-665-2100

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

Nearest Address

8681 Canyon Rd
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK129.4L/BL-YAK-129.4L) Roza Recreation Area

1. Head west from Richland go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
5. Finish at Roza Recreation Area, 8681 Canyon Rd, 98901, on the left

Roza Recreation Area

YAK-129.8L

Position - Location: 4° 41.389', 14° 50.129' 4° 41' 23.3", 14° 50' 7.7" 4.68981, 14.83548 Yakima

Strategy Objective: Deflection : Keep oil away from park shoreline on river left

Implementation: Using workboat, secure end of 400 ft of boom to river left, upstream of Roza Recreation Area, at/near Point A (46.766426, -120.455389). Extend boom downstream to mid-channel, securing it at/near Point B (46.766444, -120.456933). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

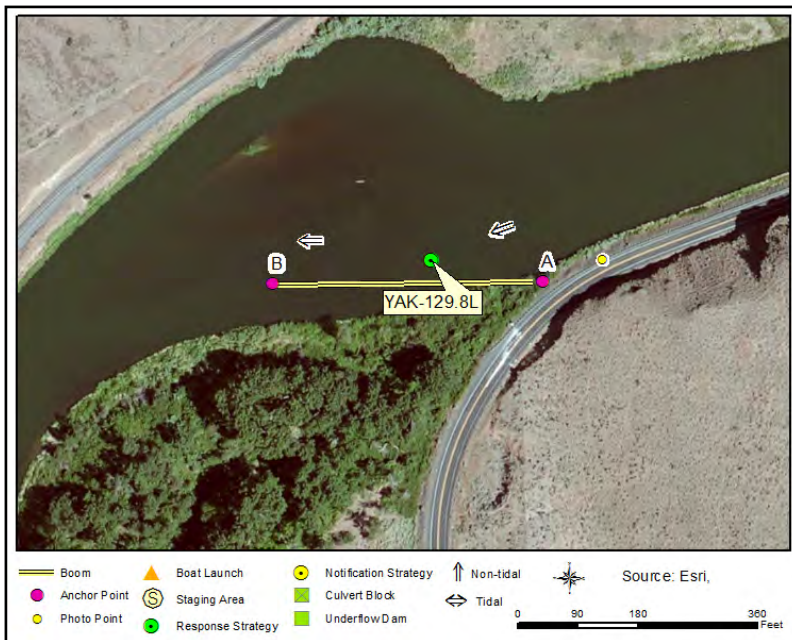
Staging Area: Onsite : Stage equipment onsite at highway pullout; Launch Workboat at BL-YAK-129.4L (Roza Recreation Area)

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Vehicle/Boat/Pedestrian Traffic; Active RR Nearby; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 1.4 miles above the Roza Dam

Resources at Risk: Federally Protected Area/Lands, Freshwater Wildlife, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid



Recommended Equipment

5 Each	Anchoring System(s) - (anchor, lines, floats)
1 Each	Anchoring System(s)- Shoreside
400 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
3 Laborer
1 Supervisor

Roza Recreation Area

YAK-129.8L



YAK-129.8L Photo: View of shoreside anchor point at Roza Recreation Area

Site Contact

Bureau of Land Management

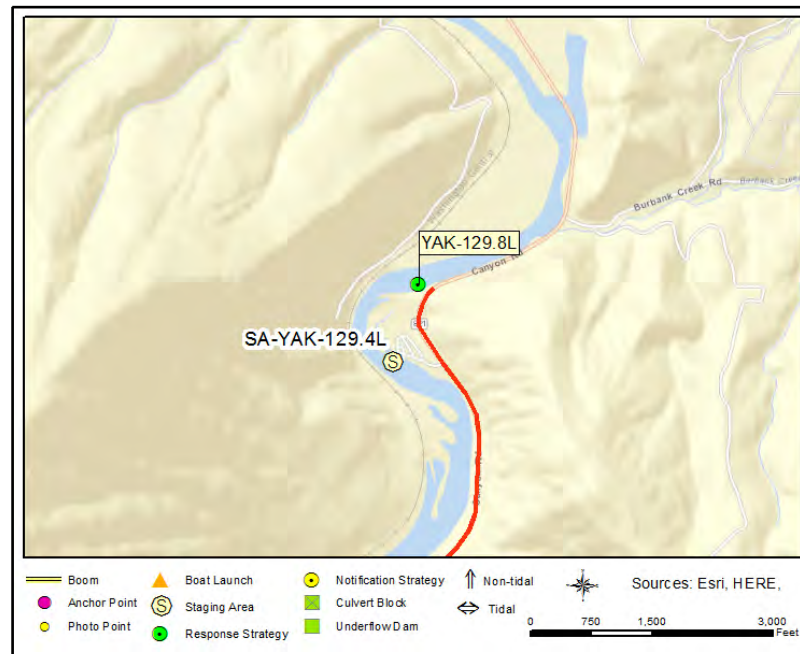
Land/Property Contact : Wenatchee Office
509-665-2100

BNSF Railroad

Emergency Contact : Service Interruption Desk
817-352-2832

Nearest Address

8681 Canyon Rd
Yakima, WA 98901



Driving Directions

1. Start at Hwy I-82 Richland, WA
2. Go southeast on George Washington Way (WA-240-BR) (0.78 miles)
3. Bear right onto ramp to I-182 toward Pasco / Yakima (0.1 miles)
4. At fork keep right toward I-82 W / Yakima / Pendleton (4.5 miles)
5. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
6. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
7. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
8. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
9. Finish at Roza Recreation Area, 8681 Canyon Rd, 98901, on the left

Mile Post 8 Boat Launch

YAK-130.6L

Position - Location: 46° 46.543', -120° 27.220' 46° 46' 32.6", -120° 27' 13.2" 46.77572, -120.45366 Yakima

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.775403, -120.454293). Extend boom downstream to mid-channel, securing at/near Point B (46.77556, -120.45373). Then extend remaining boom to river left, next to boat launch, securing it at/near Point C (46.775368, -120.452578). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

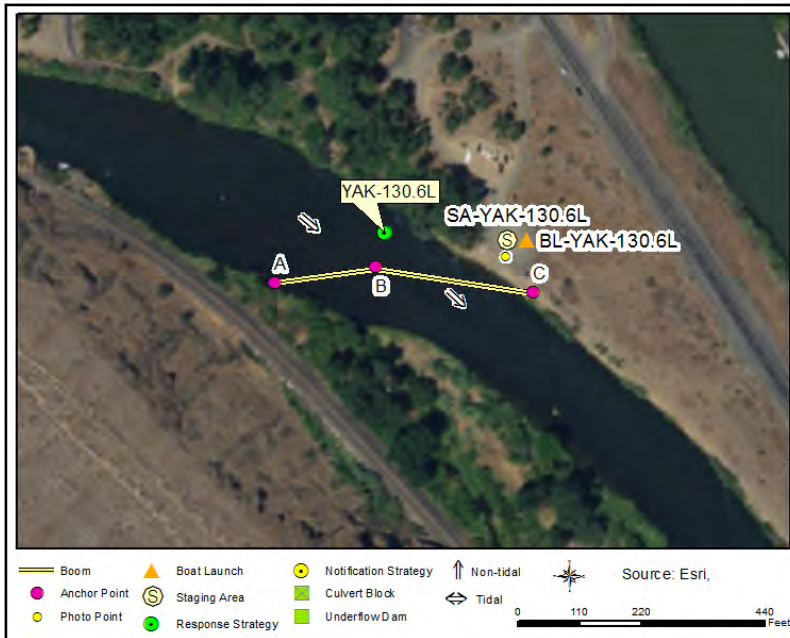
Staging Area: Remote : Stage equipment & use onsite Mile Post 8 boat launch (SA-YAK-130.6 & BL-YAK-130.6)

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Above a Dam - Yakima River, 2.6 miles upstream of Roza Dam

Resources at Risk: Boat Launch/Ramp, Freshwater Wildlife, General Fish and Wildlife Resources



Recommended Equipment

6 Each	Anchoring System(s) - (anchor, lines, floats)
2 Each	Anchoring System(s)- Shoreside
500 Feet	Boom - B3 (River Boom) or equivalent
1 Each	Bridle(s) - Towing (appropriately sized for boom)
2 Each	Heaving Line(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Mile Post 8 Boat Launch

YAK-130.6L



YAK-130.6L Photo: View of the area upstream of the boat launch where boom line is to be placed for YAK-130.6L

Site Contact

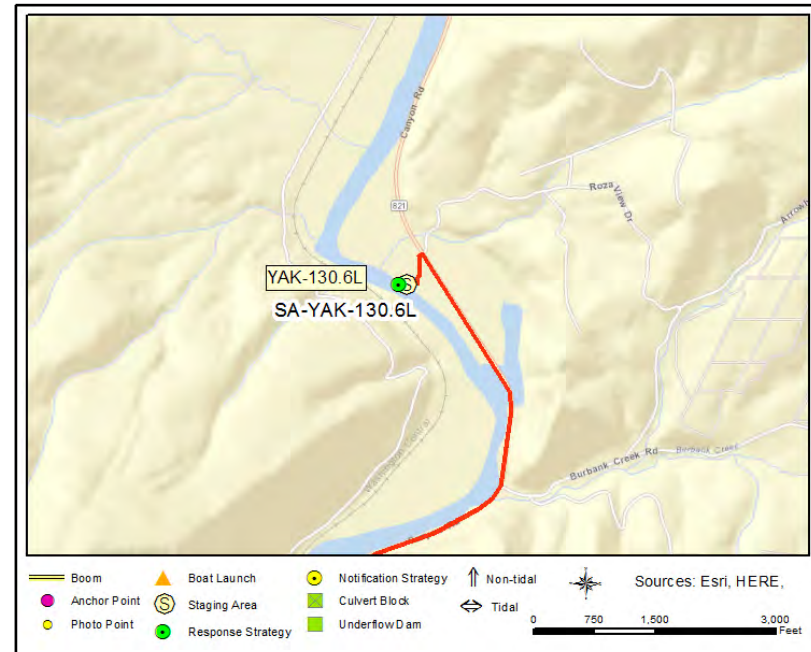
WDFW Region 3 South Central

Emergency Contact : Management agency for water access site

509-575-2740

Nearest Address

70 Roza View Drive
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-130.6L/BL-YAK-130.6L) Mile Post 8 Boat Launch

1. Head west from West Richland on I-82 W (67.06 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (8.31 miles)
5. Turn left at Roza View Dr (0.01 miles)
6. Finish at Mile Post 8 boat launch (across the Canyon Road from 70 Roza View Dr, 98901), on the left

Chandler Canal Boat Launch Above the Power Plant

YAKCC-35.8

Position - Location: 46° 16.094', -119° 35.536' 46° 16' 5.7", -119° 35' 32.2" 46.26824, -119.59227 Benton City

Strategy Objective: Collection : Collect oil moving downstream on the Chandler Canal

Implementation: Secure end of 100 ft of boom to bank on canal left, ~75 ft upstream from the boat launch, at/near Point A (46.268338, -119.592339.). Using line, extend boom across to canal right, pull tight, and secure to NW corner of boat launch at/near Point B (46.268183, -119.592019). Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents for collection. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection at Point B.

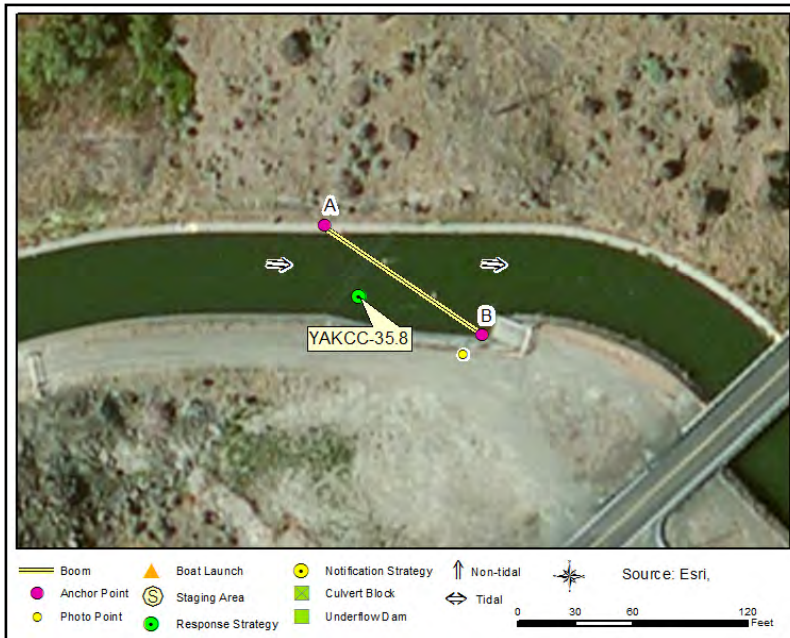
Staging Area: Onsite : Stage on site, small gravel parking lot

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

Field Notes: Parking area at Chandler Canal Boat Launch above Chandler Power Plant. Notify US Bureau of Reclamation at 509-406-3031 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flows.

Watercourse: Canal - Yakima River, Chandler Canal, 11.1 miles downstream of the Chandler Diversion Dam

Resources at Risk: General Fish and Wildlife Resources, Power Generation, Riparian Habitat



Recommended Equipment

2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
100	Feet	Line - 3/8" poly line
1	Each	Line throwing gun(s) or device(s)
1	Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2	Laborer
1	Supervisor



YAKCC-35.8 Photo: View of the Chandler Canal taken from the boat launch looking upstream where YAKCC-35.8L is to be deployed

Site Contact

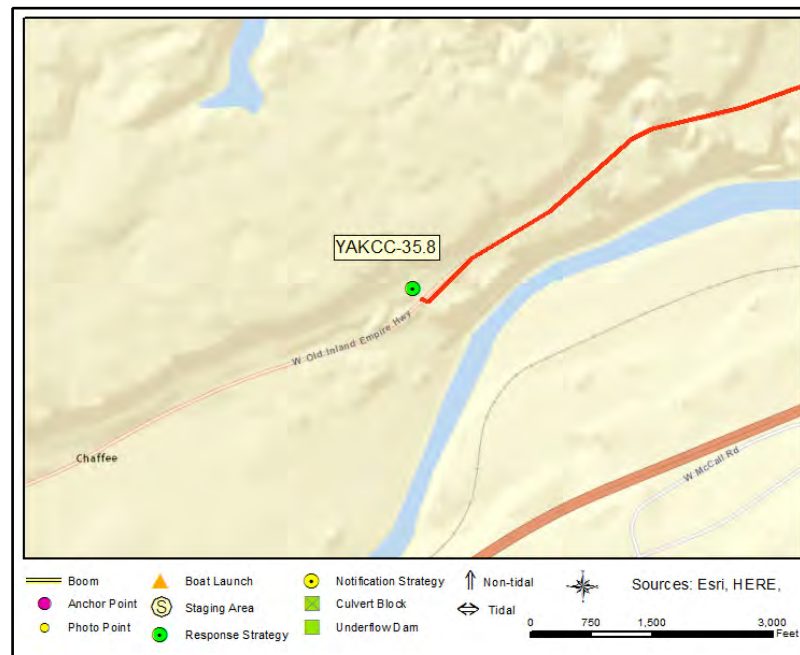
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

47400 W Old Inland Empire Hwy
Benton City, WA 99320



Driving Directions

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (7.58 miles)
5. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
6. Turn right on 1st St (WA-224) (0.44 miles)
7. Continue on Babs Ave (WA-225) (0.47 miles)
8. Continue on 9th St (WA-225) (0.04 miles)
9. Turn left on Babs Ave (0.42 miles)
10. Bear right on 14th St (0.19 miles)
11. Turn left on N Kendall Rd NW (1.08 miles)
12. Turn left on W Old Inland Empire Hwy and turn right into the boat ramp parking area immediately after crossing the Chandler Canal (5.0 miles)
13. Finish at 47400 W Old Inland Empire Hwy, 99320, on the right

West Hess Road Bridge Crossing Chandler Canal

YAKCC-42.35

Position - Location: 46° 13.704', -119° 41.230' 46° 13' 42.2", -119° 41' 13.8" 46.22840, -119.68716 Prosser

Strategy Objective: Collection : Collect oil moving downstream on the Chandler Canal

Implementation: Secure end of 100 ft of boom to bank on canal left, ~75 ft upstream of the bridge, at/near Point A (46.228186, -119.687194). Using line, extend boom across to canal right, pull tight, and secure to the SE corner of the bridge at/near Point B (46.228448, -119.687073). Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents for collection. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection at Point B.

Staging Area: Onsite : Stage on the pull-off at the West Hess Road Bridge crossing the Chandler Canal

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

Field Notes: Notify the US Bureau of Reclamation at 509-406-3031 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flows.

Watercourse: Canal - Yakima River, Chandler Canal, 4.55 miles downstream of the Chandler Diversion Dam

Resources at Risk: Public Health and Safety, Public Lands/Facilities



Recommended Equipment

2 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)

Recommended Personnel

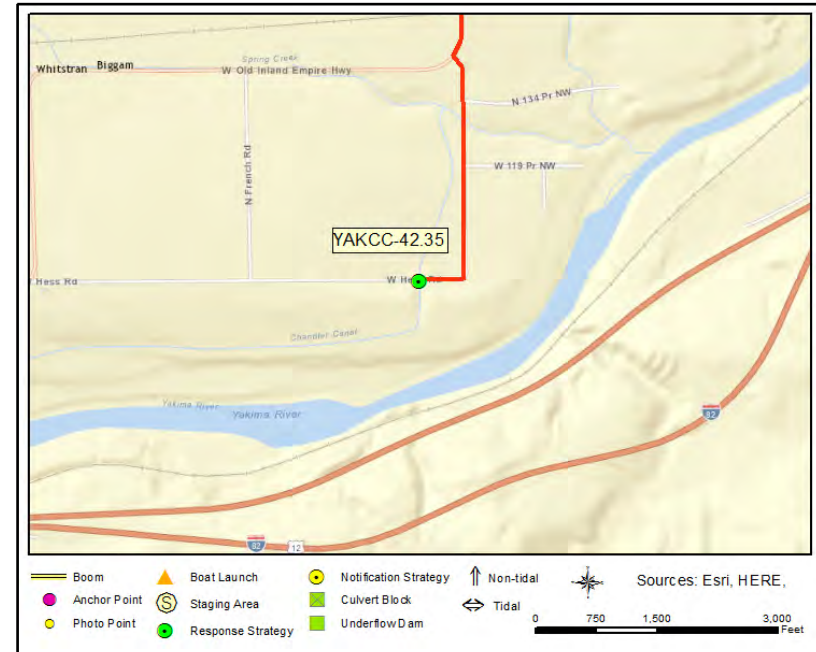
2 Laborer
1 Supervisor

West Hess Road Bridge Crossing Chandler Canal

YAKCC-42.35



YAKCC-42.35 Photo: View of the location for YAKCC-42.35 from the SE corner of the bridge



Site Contact

US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

92901 West Hess Road
Prosser, WA 99350

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (7.58 miles)
2. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.85 miles)
6. Continue on Horne Dr (WA-225) (0.23 miles)
7. Turn left on W Old Inland Empire Hwy (Hazel Ave) (10.49 miles)
8. Turn left on W Hess Rd (0.75 miles)
9. Finish at 92901 West Hess Road, 99350, on the left

North Bunn Road Bridge Over Chandler Canal

YAKCC-45.0

Position - Location: 46° 13.417', -119° 44.236' 46° 13' 25.0", -119° 44' 14.2" 46.22361, -119.73727 Prosser

Strategy Objective: Collection : Collect oil moving downstream on the Chandler Canal

Implementation: Using workboat, secure 300 ft of boom to bank on canal left at/near Point A (46.2235, -119.7378). Extend boom downstream and across to canal right, securing it at/near Point B (SW corner of bridge). Extend remaining boom from Point B across canal and secure end at/near Point C (NW corner of bridge). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.

Staging Area: Onsite : Room to stage along the road, bathroom available at the Yakama Nation Fish Hatchery across the street.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Boat launch at NW corner of bridge at/near Point C. Notify US Bureau of Reclamation at 509-406-3031 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flow.

Watercourse: Canal - Yakima River, Chandler Canal, 1.9 miles downstream of the Chandler Diversion Dam

Resources at Risk: Public Health and Safety, Public Lands/Facilities



Recommended Equipment

2 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
300 Feet	Boom - Sorbent
1 Each	Machete(s) - (or other vegetation cutting tool)
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

North Bunn Road Bridge Over Chandler Canal

YAKCC-45.0



YAKCC-45.0 Photo: View of boat ramp on canal left, taken from anchor point B at the bridge on canal right

Site Contact

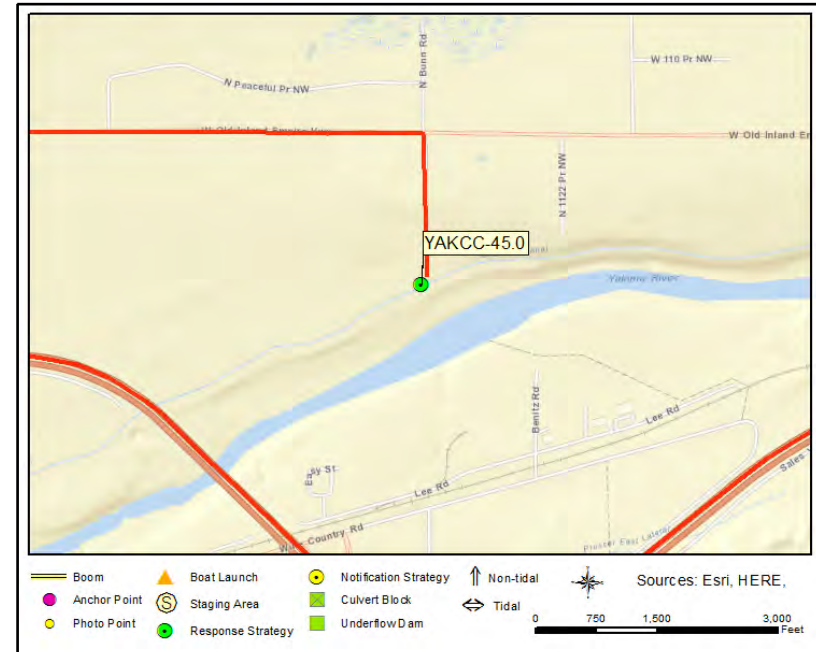
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

6201 N Bunn Rd
Prosser, WA 99350



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (24.06 miles)
2. At exit 80 take ramp on the right to Gap Rd toward Prosser (0.37 miles)
3. Turn right on N Gap Rd (0.4 miles)
4. Turn right on W Johnson Rd (1.05 miles)
5. Continue on W Old Inland Empire Hwy (1.46 miles)
6. Turn right on N Bunn Rd (0.34 miles)
7. Finish at 6201 N Bunn Rd, 99350, on the left

Chandler Canal Fish Screen

YAKCC-46.15R

Position - Location: 46° 12.956', -119° 45.575' 46° 12' 57.3", -119° 45' 34.5" 46.21593, -119.75958 Prosser

Strategy Objective: Collection : Collect oil moving downstream on the Chandler Canal

Implementation: Using workboat, secure 300 ft of boom to bank on canal left at/near Point A (46.215782, -119.760377). Extend boom downstream and across to canal right, securing it at/near Point B (upstream of fish screen). Extend remaining boom from Point B across canal and secure end at/near Point C (NW of launch). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.

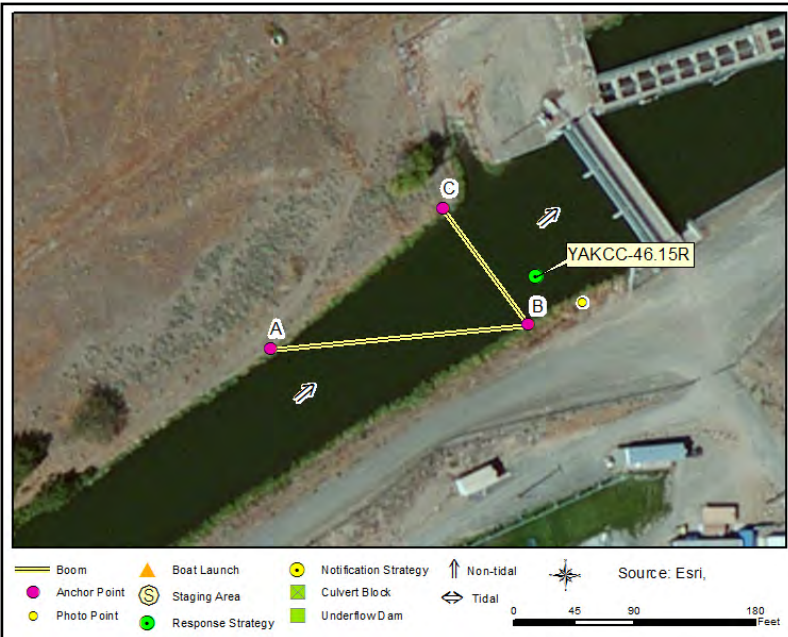
Staging Area: Onsite : Room to stage along the road, bathroom available at the Prosser Water Treatment facility across the street

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch for canal located on upstream side of fish ladder. Notify US Bureau of Reclamation at 509-406-3031 if deploying strategy. Yakima River, and associated canals, have extreme variability in seasonal flows.

Watercourse: Canal - Yakima River, Chandler Canal, 0.75 miles downstream of the Chandler Diversion Dam

Resources at Risk: Fish and Wildlife Resources, Public Health and Safety, Public Lands/Facilities



Recommended Equipment

3 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
300 Feet	Boom - Sorbent
1 Each	Machete(s) - (or other vegetation cutting tool)
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

Chandler Canal Fish Screen

YAKCC-46.15R



YAKCC-46.15R Photo: View of the Chandler Canal boat launch just upstream of the screening facility

Site Contact

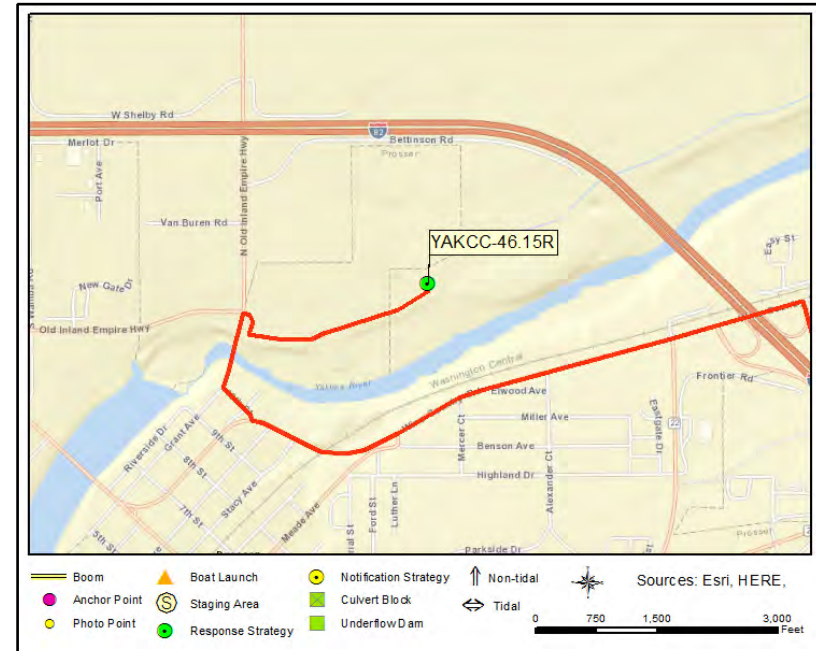
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

999 Grande Road Way
Prosser, WA 99350



Driving Directions

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles)
8. Cross the bridge and turn left on service road to strategy location (0.1 miles)
9. Finish at 999 Grande Road Way, 99350, on the left

Indian Church Road bridge at Marion Drain (Canal)

YAKMC-82.6

Position - Location: 46° 19.841', -120° 11.993' 46° 19' 50.4", -120° 11' 59.6" 46.33068, -120.19988 Toppenish

Strategy Objective: Collection : Collect oil moving downstream on the Marion Drain which leads to the Yakima River

Implementation: Secure end of 100 ft of boom to bank on canal right, under the bridge on the upstream side, at/near Point A (46.228, -119.687). Using line, walk boom across bridge to canal right, pull tight, and secure to shore at the SW corner of the bridge at/near Point B. Secure the remaining 50ft of boom on the downstream side of the bridge on the NW side. Use shoreside anchors or existing features to secure boom to banks. Back hard boom inside V with sorbent boom for collection. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection at point B.

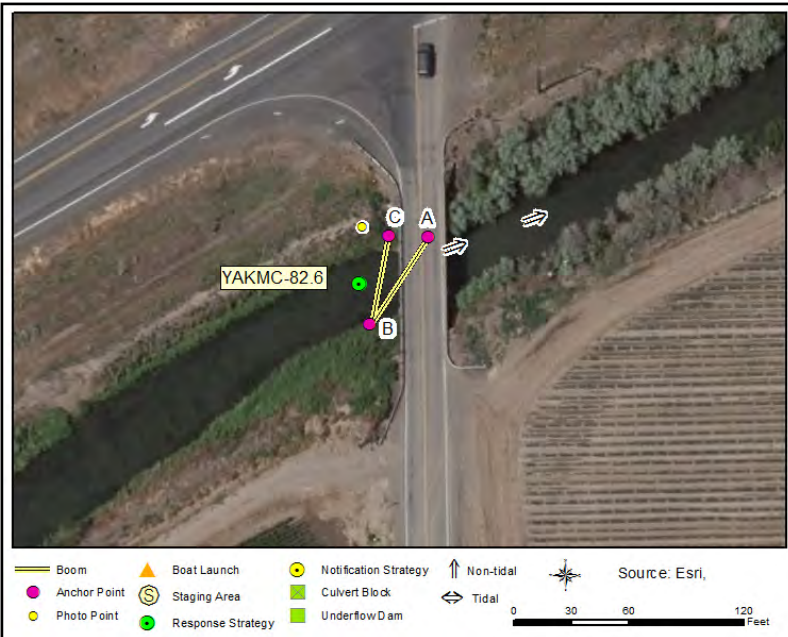
Staging Area: Onsite : Stage next to the canal on the south side of the intersection with WA 223 and Indian Church Road.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Notify Yakima Nation at 509-945-2939 before deployment, site is on tribal land. Yakima River, and associated canals, have extreme variability in seasonal flow.

Watercourse: Canal - Yakima River, Marion Drain, 0.23 miles before it reaches the Yakima River

Resources at Risk: Creek Habitat, Riparian Area, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat



Recommended Equipment

3 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2 Laborer
1 Supervisor

Indian Church Road bridge at Marion Drain (Canal)

YAKMC-82.6



YAKMC-82.6 Photo: View of anchor point B taken from SW side of the bridge near anchor point C

Site Contact

Yakama Nation

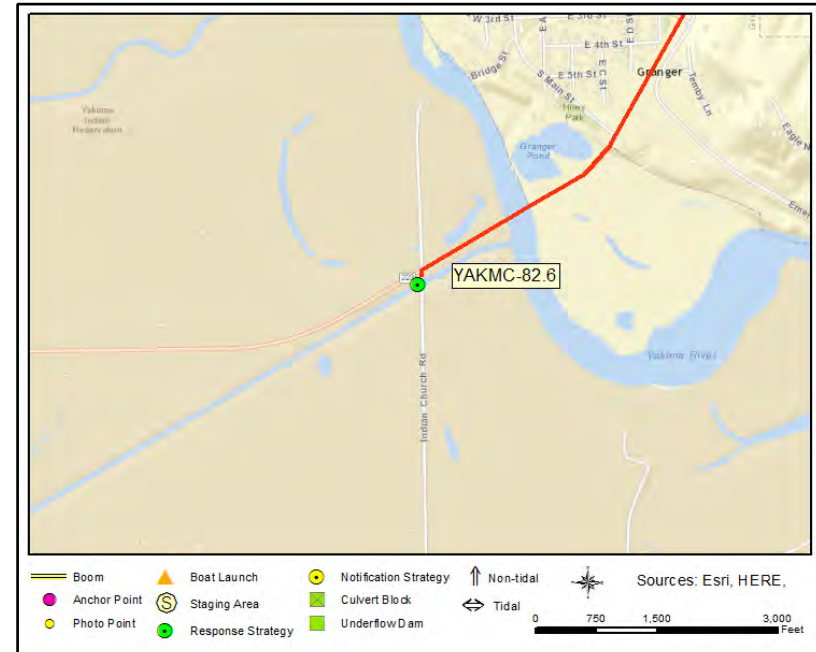
Tribal Contact : Environmental Management Program
509-945-2939

Wapato Irrigation District (Bureau of Indian Affairs)

Land/Property Contact : Emergency contact
509-877-3155 ext. 3

Nearest Address

1340 Indian Church Road
Toppenish, WA 98932



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (45.47 miles)
2. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
3. Turn left on WA-223 (Vanbelle Rd) (1.58 miles)
4. Turn left on Indian Church Rd and stop before crossing the bridge over the canal (0.1 miles)
5. Finish at 1300 Indian Church Road, 98932, on the left

Burke Road Bridge Crossing Sunnyside Canal **YAKSC-103.0**

Burke Road Bridge Crossing Sunnyside Canal **YAKSC-103.0**

Position - Location:	46° 29.635', -120° 25.475'	46° 29' 38.1", -120° 25' 28.5"	46.49392, -120.42458	Wapato
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Strategy Objective: Collection : Collect oil moving downstream on the Sunnyside Canal

Implementation:	Secure end of 100 ft of boom to bank on canal right, on the downstream side of the bridge, at/near Point A (46.493841, -120.42476). Using line, extend boom across to canal left, pull tight, and secure to shore at/near Point B (46.493865, -120.424257). Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.
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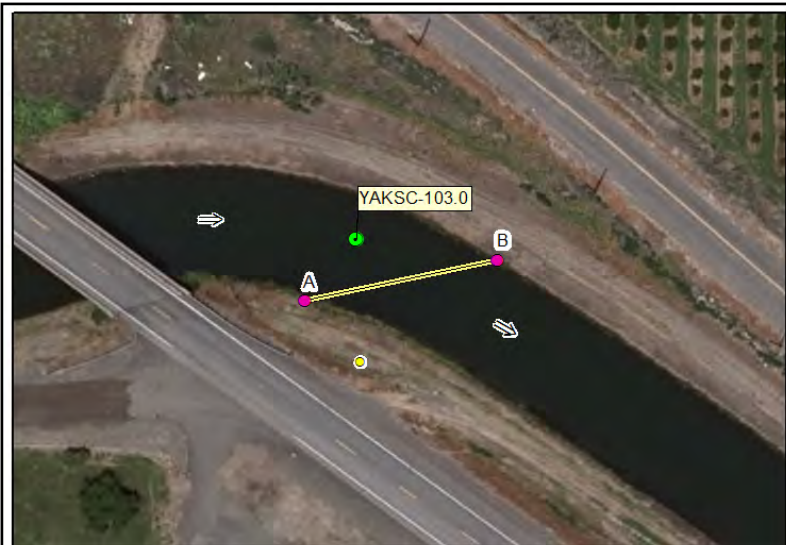
Staging Area: Onsite : Paved road with room for parking on the dirt/gravel shoulders.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

Field Notes:	Notify the Sunnyside Valley Irrigation District at 509-837-6980 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flow.
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Watercourse: Canal - Yakima River, Sunnyside Canal, 0.85 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Public Health and Safety, Public Lands/Facilities



Boom
 Boat Launch
 Notification Strategy
 Non-tidal
 Source: Esri,

Anchor Point
 Staging Area
 Culvert Block
 Tidal

Photo Point
 Response Strategy
 Underflow Dam

0 30 60 120 Feet

Recommended Equipment

2	Each	Anchoring System(s)- Shoreside
100	Feet	Boom - B3 (River Boom) or equivalent
100	Feet	Boom - Sorbent
2	Each	Heaving Line(s)
200	Feet	Line - 3/8" poly line
1	Each	Line throwing gun(s) or device(s)
1	Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2	Laborer
1	Supervisor

No Photograph Available

YAKSC-103.0 Photo: No Photo Available

Site Contact

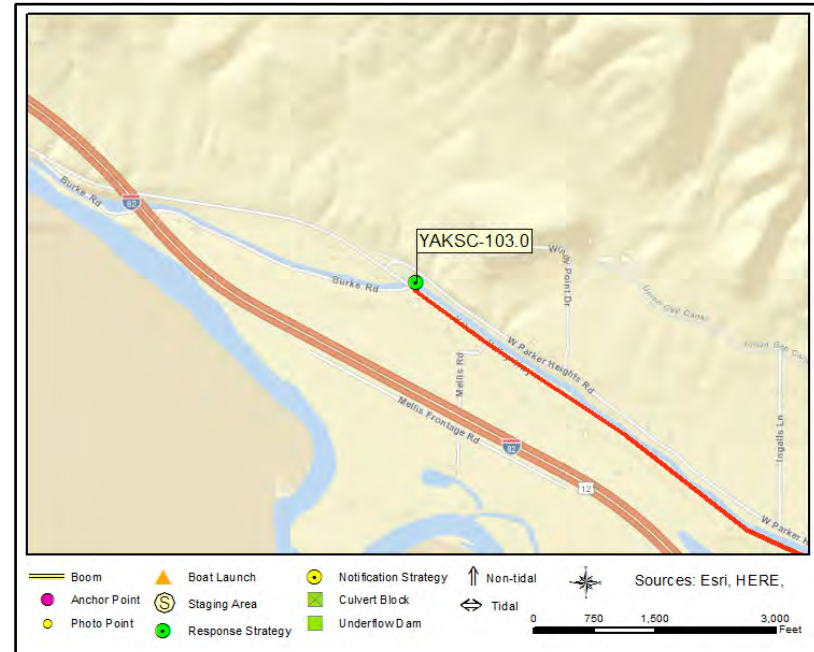
Sunnyside Valley Irrigation District

Land/Property Contact : Manages Sunnyside Diversion Dam & canal

Sunnyside, WA 98944
509-837-6980

Nearest Address

80 Burke Road
Wapato, WA 98951



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (59.72 miles)
2. At exit 44 take ramp on the right toward Wapato (0.4 miles)
3. Turn right on Donald Wapato Rd (0.39 miles)
4. Turn left on Yakima Valley Hwy (1.81 miles)
5. Bear right adjacent to Burke Rd just before the bridge (0 miles)
6. Finish at 80 Burke Road, 98951, on the right

Sunnyside Canal Fish Screen

YAKSC-103.6

Position - Location: 46° 29.810', -120° 26.456' 46° 29' 48.6", -120° 26' 27.4" 46.49683, -120.44094 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Sunnyside Canal

Implementation: Secure end of 200 ft of boom to bank on canal right at/near Point A (46.49691, -120.44139). Using line, extend boom downstream and across to canal left, securing it at/near Point B (upstream of fish screen). Extend remaining boom from Point B across canal and secure end at/near Point C. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection at Point B.

Staging Area: Onsite : Stage onsite on either side of the facility, but bring vac truck or skimmer/storage to the N side of the canal

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Contact the Sunnyside Irrigation District 509-837-6980 for gate and facility access before deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flow.

Watercourse: Canal - Yakima River, Sunnyside Canal, 2.15 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Fish Screens, Public Health and Safety, Public Lands/Facilities



Recommended Equipment

3 Each	Anchoring System(s)- Shoreside
200 Feet	Boom - B3 (River Boom) or equivalent
200 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage
1 Each	Winch - Come-A-Long

Recommended Personnel

2	Laborer
1	Supervisor

No Photograph Available

YAKSC-103.6 Photo: No Photo Available

Site Contact

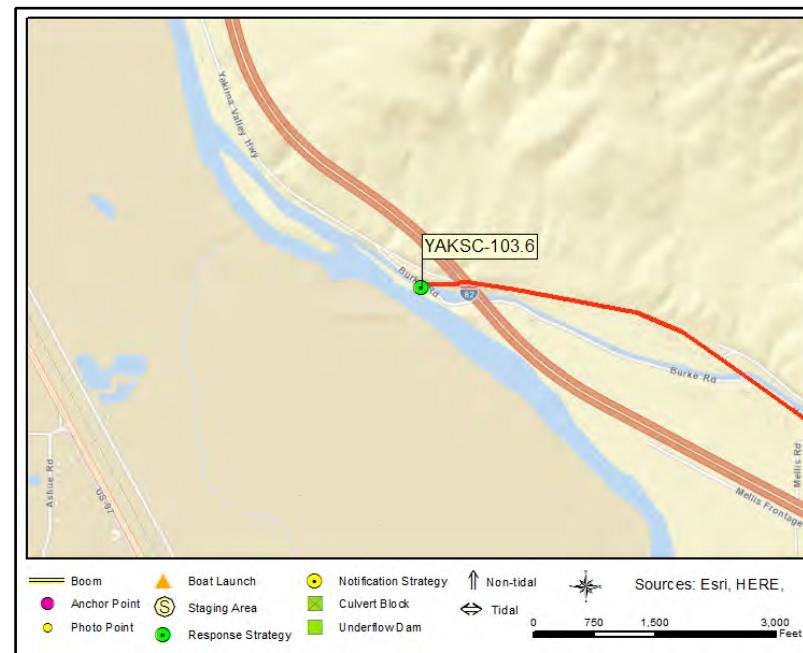
Sunnyside Valley Irrigation District

Land/Property Contact : Manages Sunnyside Diversion Dam & canal

Sunnyside, WA 98944
509-837-6980

Nearest Address

1775 Yakima Valley Hwy
Wapato, WA 98951



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (59.72 miles)
2. At exit 44 take ramp on the right toward Wapato (0.4 miles)
3. Turn right on Donald Wapato Rd (0.39 miles)
4. Turn left on Yakima Valley Hwy (2.49 miles)
5. Cross under the expressway and take the first left into the Sunnyside Irrigation District fish screen facility
6. Finish at 1775 Yakima Valley Hwy, 98951

Tree Top Water Treatment Facility

YAKTC-121.25

Position - Location: 46° 40.703', -120° 29.833' 46° 40' 42.2", -120° 29' 50.0" 46.67838, -120.49722 Selah

Strategy Objective: Collection : Collect oil moving downstream on the Taylor Canal

Implementation: Secure end of 100 ft of boom to bank on river right upstream of culvert entrance at/near Point A (46.678389,-120.49724). Using line, extend boom downstream, across canal, securing it to bank at/near Point B (46.678307, -120.497351). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.

Staging Area: Onsite : Gravel drive with room for staging, no facilities

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Gated drive, call Tree Top Water Treatment Facility at 509-449-3054 to gain access. Yakima River, and associated canals, have extreme variability in seasonal flow.

Watercourse: Canal - Yakima River, Taylor Canal, 0.93 miles downstream from the Taylor Canal Headgate

Resources at Risk: Public Health and Safety, Public Lands/Facilities



Recommended Equipment

2 Each	Anchoring System(s)- Shoreside
100 Feet	Boom - B3 (River Boom) or equivalent
100 Feet	Boom - Sorbent
1 Each	Machete(s) - (or other vegetation cutting tool)

Recommended Personnel

2 Laborer
1 Supervisor

Tree Top Water Treatment Facility

YAKTC-121.25

No Photograph Available

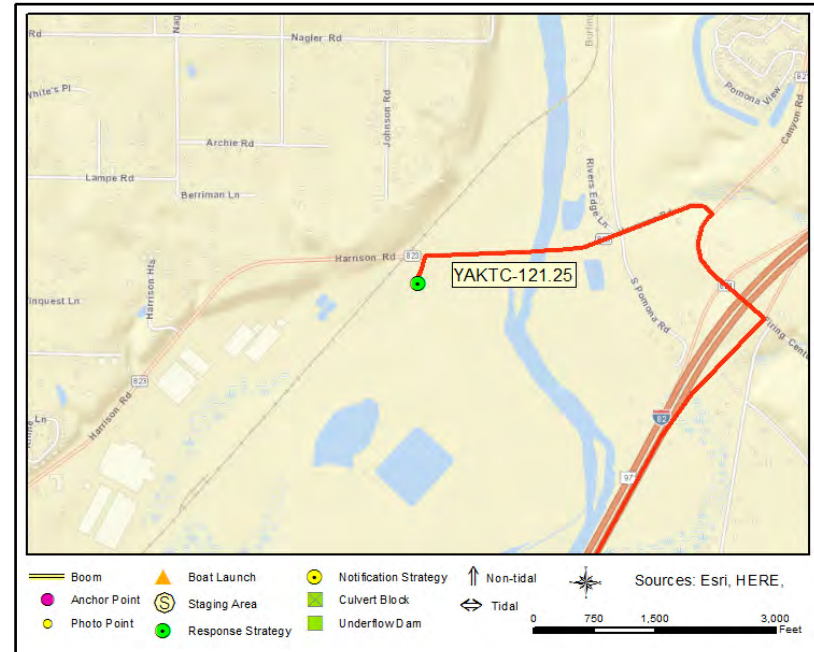
YAKTC-121.25 Photo: No Photo Available

Site Contact

Tree Top Inc. Water Treatment
Emergency Contact : Facility Manager
509-449-3054

Nearest Address

1500 Harrison Rd
Selah, WA 98942



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (74.99 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (0.32 miles)
5. Make sharp left on Harrison Rd (WA-823) toward WA-823 S / Selah (1.0 miles)
6. Turn left, before the railroad bridge, onto gravel drive to Tree Top Water Treatment, go through gate and stop at culvert (0.1 miles)
7. Finish at 1500 Harrison Rd, 98942, on the left

Lateral A Road and Wapato Canal

YAKWAP-104.65

Position - Location: 46° 30.425', -120° 28.677' 46° 30' 25.5", -120° 28' 40.6" 46.50708, -120.47795 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Wapato Canal

Implementation: Secure 300 ft of boom to bank on canal right at/near Point A (46.5074, -120.47793). Using line, extend boom downstream and across to canal left, securing it at/near Point B (46.50695, -120.4779). Extend remaining boom from Point B upstream across culvert on canal left and secure end at/near Point C. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.

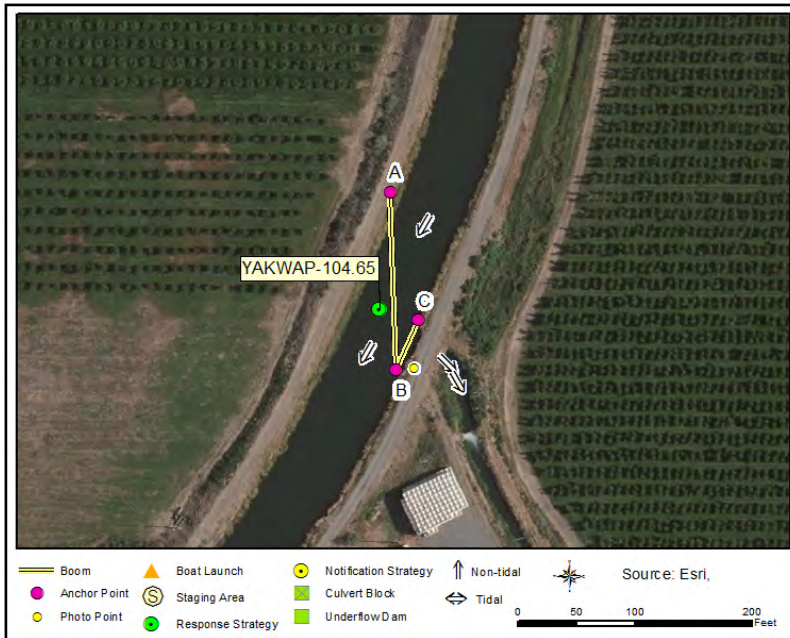
Staging Area: Onsite : Stage at the intersection of two farm roads on canal left, area provides ample room for parking

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

Field Notes: Notify Yakima Nation before deployment at 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: Canal - Yakima River, Wapato Canal, 1.85 miles downstream from the Wapato Diversion Dam

Resources at Risk: Public Health and Safety, Tribal Lands/Resources



Recommended Equipment

1 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
300 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)
1 Each	Winch - Come-A-Long

Recommended Personnel

2 Laborer
1 Supervisor

Lateral A Road and Wapato Canal

YAKWAP-104.65

No Photograph Available

YAKWAP-104.65 Photo: No Photo Available

Site Contact

Yakama Nation

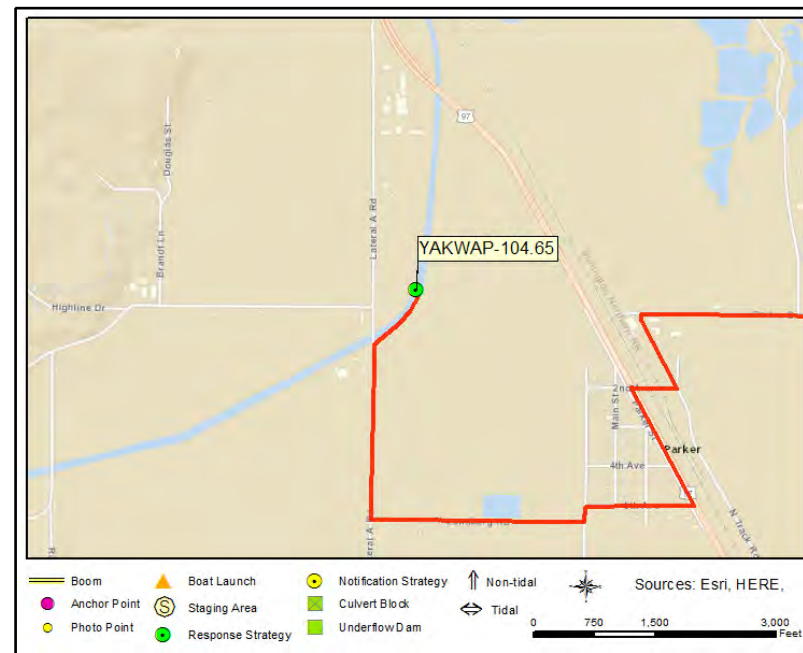
Tribal Contact : Environmental Management Program
509-945-2939

Wapato Irrigation District (Bureau of Indian Affairs)

Land/Property Contact : Emergency contact
509-877-3155 ext. 3

Nearest Address

760 Lateral A Rd
Wapato, WA 98951



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd (0.72 miles)
6. Turn left on N Track Rd (0.2 miles)
7. Make sharp right on 2nd Ave (0.11 miles)
8. Make sharp left on US-97 S (US Highway 97) (0.31 miles)
9. Make sharp right on 5th Ave (0.26 miles)
10. Bear left on Yakima St (0.04 miles)
11. Turn right on Lundberg Rd (0.5 miles)
12. Turn right on Lateral A Rd (0.36 miles)
13. Turn right again just before the bridge onto a gravel/dirt track that runs parallel to the canal and will take you directly to the strategy location (0.15 miles)
14. Finish at 760 Lateral A Rd, 98951, on the left

Wapato Fish Screens

YAKWAP-106.2

Position - Location: 46° 31.099', -120° 28.724' 46° 31' 6.0", -120° 28' 43.4" 46.51832, -120.47873 Wapato

Strategy Objective: Collection : Collect oil moving downstream on the Wapato Cana

Implementation: Secure 300 ft of boom to bank on canal left upstream of fish ladder at/near Point A (46.5074, -120.47793). Using line, extend boom downstream and across to canal right, securing it at/near Point B (46.5186, -120.47864.). Extend remaining boom from Point B across the canal and secure end at/near Point C. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection

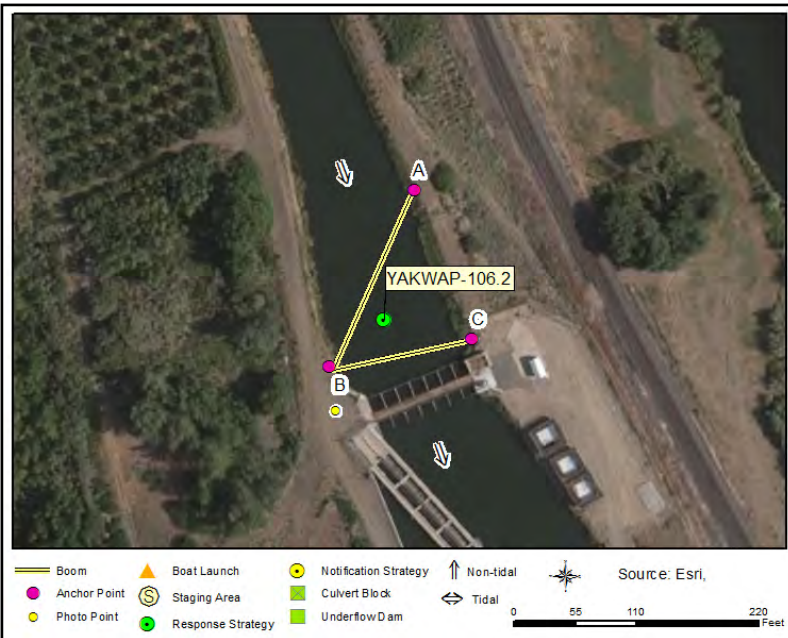
Staging Area: Onsite : Stage equipment in gravel parking area adjacent to Wapato Fish Screen

Site Safety: Water Hazard; Active Railroad; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3). Notify Yakama Nation (509-945-2939); strategy is on tribal land.

Watercourse: River - Side Channel - Yakima River, Wapato Canal, 0.3 miles downstream from the Wapato Diversion Dam

Resources at Risk: Economic Resource, Fish Ladder(s)



Recommended Equipment

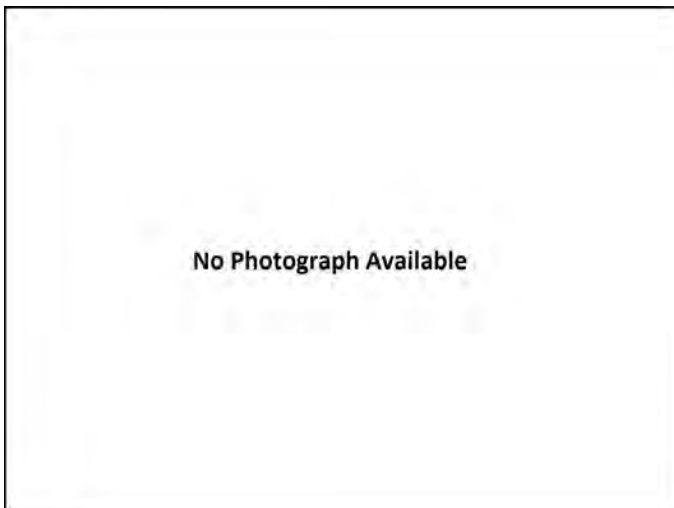
3 Each	Anchoring System(s) - (anchor, lines, floats)
3 Each	Anchoring System(s)- Shoreside
300 Feet	Boom - B3 (River Boom) or equivalent
300 Feet	Boom - Sorbent
2 Each	Heaving Line(s)
200 Feet	Line - 3/8" poly line
1 Each	Line throwing gun(s) or device(s)
1 Each	Machete(s) - (or other vegetation cutting tool)
1 Each	Vac Truck or Skimmer and Storage

Recommended Personnel

2 Laborer
1 Supervisor

Wapato Fish Screens

YAKWAP-106.2



YAKWAP-106.2 Photo: No Photo Available

Site Contact

Yakama Nation

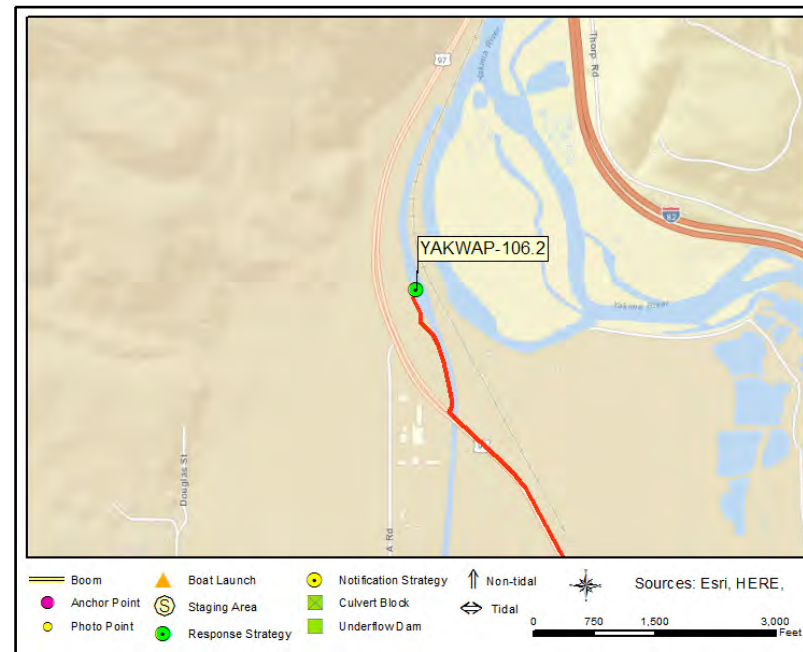
Tribal Contact : Environmental Management Program
509-945-2939

BNSF Railroad

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

Nearest Address

74280 US 97
Wapato, WA 98951



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd (0.72 miles)
6. Turn left on N Track Rd (0.2 miles)
7. Make sharp right on 2nd Ave (0.1 miles)
8. Turn right on US-97 N (US Highway 97) (0.8 miles)
9. Turn right onto gravel drive as soon as you cross the Wapato Canal and follow until you reach the fish screen (0.3 miles)
10. Finish at 74280 US 97, 98951, on the right

APPENDIX 4B
Notification Strategy 2-Pagers

NOTIFICATION STRATEGIES – LIST

NACH-3.7R-N

NACH-9.85L-N

YAK-32.45L-N

YAK-46.1L-N

YAK-103.85L-N

YAK-114.75-N

City of Yakima Water Intake

NACH-3.7R-N

Position - Location: 46° 37.887', -120° 35.231' 46° 37' 53.2", -120° 35' 13.8" 46.63145, -120.58718 Yakima

Strategy Objective: Notification : Notify City of Yakima about spill so they can take timely action to protect the resources under their control.

Implementation: Notify the City of Yakima by calling 509-575-6154

Field Notes: City of Yakima water intakes include: Nelson Bridge 46.6314, -120.5871, on W. Powerhouse Road and Fruitbale Canal 46.6285, -120.5730, Hwy 12 and Clover Lane

Watercourse: River - Above a Dam - Naches River, upstream of the Nelson Diversion Dam

Resources at Risk: Economic Resource, Fish Screens, Public Health and Safety, Public Lands/Facilities, Water Intakes



Communication Process and Action:

Call City of Yakima's Water and Irrigation Department at 509-575-6154 and inform them and the Irrigation Supervisor of any significant oil spill or potential spill that impacts or threatens to impact the Naches River upstream of river mile 3.7. The City of Yakima will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control, including the protection of water intakes in the area.

City of Yakima Water Intake

NACH-3.7R-N



NACH-3.7R-N Photo: View of the City of Yakima water intake at the Nelson Bridge

Site Contact

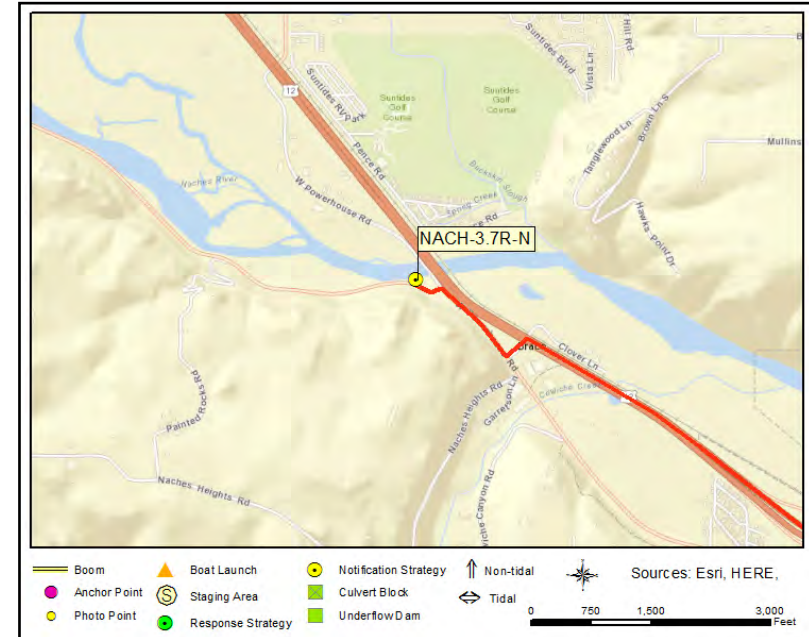
City of Yakima Irrigation

Primary Contact : Responsible for Water Intakes

Yakima, WA 98908
509-575-6154

Nearest Address

5501 W. Powerhouse Road
Yakima, WA 98908



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (3.95 miles)
4. Turn left on Ackley Rd (0.07 miles)
5. Turn right on W Powerhouse Rd (0.03 miles)
6. Finish 0.3 miles past 5501 W. Powerhouse Road, 98908, on the right - City of Yakima Water Intake at the Nelson Diversion Dam.

Yakima City Water Intake & Water Treatment Plant

NACH-9.85L-N

Position - Location: 46° 41.716', -120° 39.238' 46° 41' 43.0", -120° 39' 14.3" 46.69527, -120.65397 Naches

Strategy Objective: Notification : Notify the City of Yakima about the spill so they can take timely action to protect the resources under their control

Implementation: Notify the City of Yakima by calling 509-575-6177

Field Notes: Water intake facility is on the Naches River adjacent to HWY 12 at 46.6954, -120.6543. Water Treatment Plant is downstream on the Naches River at 46.68595, -120.65375

Watercourse: River - Above a Dam - Naches River, upstream of the Nelson Diversion Dam

Resources at Risk: Economic Resource, Public Health and Safety, Public Lands/Facilities, Water Intakes



Communication Process and Action:

Call City of Yakima at 509-575-6177 and inform the Supervisor, or Operations Staff, of any significant oil spill or potential spill that impacts or threatens to impact the Naches River upstream of river mile 9.85. The City of Yakima will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control, including the protection of water intakes in the area. Actions may include closing down intake head gate or inflatable weir, and or closing the Water Treatment Plant.

Yakima City Water Intake & Water Treatment Plant

NACH-9.85L-N



NACH-9.85L-N Photo: View of the City of Yakima's public water intake on the Naches River NACH-9.85R-N

Site Contact

City of Yakima Water Department

Emergency Contact : City Water Intakes & Treatment Plant

Yakima, WA 98908
509-575-6177

Nearest Address

7055 US-12
Naches, WA 98937



Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Do a u-turn and go back (0.5 miles) Finish at 7055 US-12, 98937, City of Yakima Water Intake is on the right

Benton Irrigation District Pump Station

YAK-32.45L-N

Position - Location: 46° 16.489', -119° 31.010' 46° 16' 29.4", -119° 31' .6" 46.27482, -119.51683 Benton City

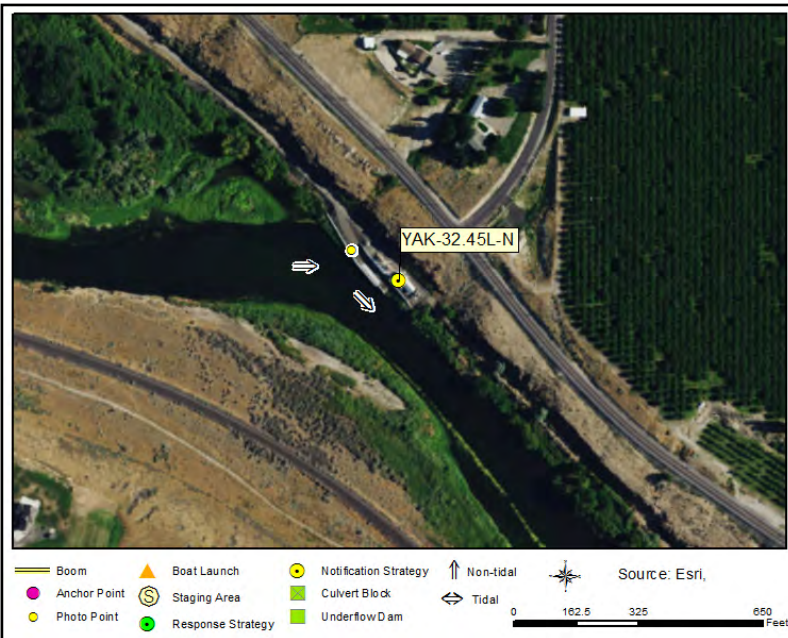
Strategy Objective: Notification : Notify the Benton Irrigation District about spill so they can take timely action to protect the resources under their

Implementation: Notify the Benton Irrigation District Manager at 509-947-8908

Field Notes: There is also an exclusion strategy designed for this facility YAK-32.45L.akima River has extreme variation in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 14.45 miles downstream of the Chandler Diversion Dam

Resources at Risk: Fisheries Habitat, Pump Station, Recreational Fishery



Communication Process and Action:

Call the Benton Irrigation District at 509-947-8908, and inform the manager of any significant oil spill or potential spill that impacts or threatens to impact the Yakima River upstream of river mile 32.45. The Benton Irrigation District will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions might include the closure of water intake pumps and fish gates.

Benton Irrigation District Pump Station

YAK-32.45L-N



YAK-32.45L-N Photo: View of the BID pump house and the top of the fish gate

Site Contact

Benton Irrigation District

Primary Contact : Pump Station Manager

Benton City, WA
509-947-8908

Nearest Address

43206 N Whan Rd
Benton City, WA 99320



Driving Directions

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
2. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (0.62 miles)
10. Pass N Whan Rd on the right then take the first gravel drive to the left (0.75 miles). Follow the drive back east .75 miles to the pump house.
11. Finish at the Benton Irrigation District Pump Station 13079 W Old Inland Empire Hwy, Benton City, WA 99320, on the left

Yakama Indian Nation Fish Hatchery

YAK-46.1L-N

Position - Location: 46° 12.920', -119° 45.547' 46° 12' 55.2", -119° 45' 32.8" 46.21534, -119.75911 Prosser

Strategy Objective: : Notify the Yakama Indian Nation Fish Hatchery about spill so they can take timely action to protect the resources under

Implementation: Notify the Yakama Indian Nation Fish Hatchery Manager at 509-945-5899, or Foreman at 509-961-9424

Field Notes: Yakama Indian Nation Fish Hatchery is located at 46.215332, -119.759144.

Watercourse: River - Below a Dam - Yakima River, downstream of the Chandler Diversion Dam

Resources at Risk:



Communication Process and Action:

Call the Hatchery Manager at 509-945-5899, or Foreman at 509-961-9424, and inform them of any significant oil spill or potential spill that impacts or threatens to impact the Yakima River upstream of river mile 46.1. The Yakima Nation Fish Hatchery management will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions may include shutting down water intakes or stopping the release of fish during a spill.

Yakama Indian Nation Fish Hatchery

YAK-46.1L-N



YAK-46.1L-N Photo: View of the sight out front of the Yakama Nation Fish Hatchery in Prosser, WA

Site Contact

Yakama Indian Nation Fish Hatchery

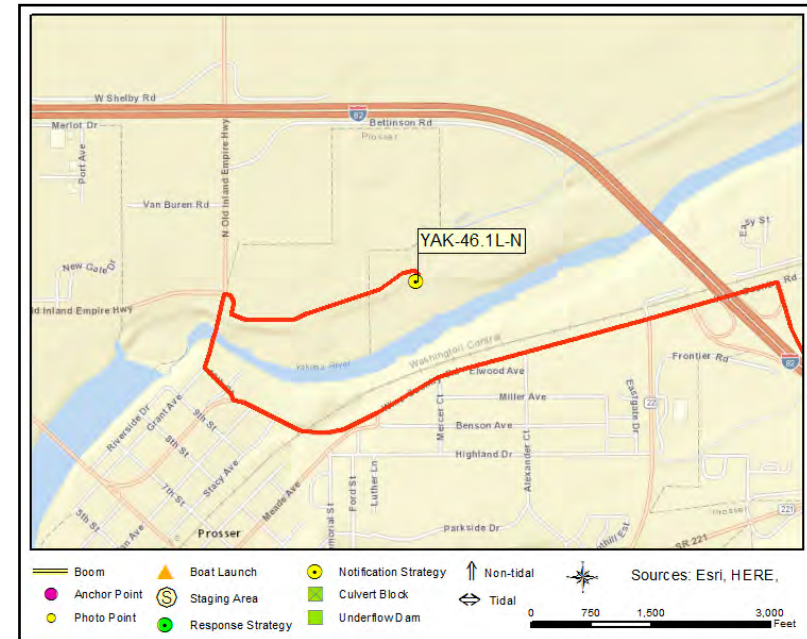
Emergency Contact : Hatchery Managers
509-945-5899

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

999 Grande Rd
Prosser, WA 99350



Driving Directions

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles)
8. Cross the bridge and turn left on service road to strategy location (0.1 miles)
9. Finish at the Yakima Indian Nation Fish Hatchery 999 Grande Road Way, 99350, on the right

Sunnyside Diversion Dam and Canal Head Gate

YAK-103.85L-N

Position - Location: 46° 29.902', -120° 26.663' 46° 29' 54.1", -120° 26' 39.8" 46.49837, -120.44438 Wapato

Strategy Objective: Notification : Notify Sunnyside Valley Irrigation District of spill so they can take timely action to protect the resources under their

Implementation: Notify Sunnyside Valley Irrigation District Manager by calling 509-837-6980

Field Notes: Sunnyside Canal Head Gates are located at 46.49846, -120.44430

Watercourse: River - Below a Dam - Yakima River, at the Sunnyside Diversion Dam

Resources at Risk: Economic Resource, Fish Screens, Public Health and Safety, Public Lands/Facilities, Water Intakes

Communication Process and Action:

Contact Sunnyside Valley Irrigation District at 509-837-6980 and inform the manager of any significant oil spill, or potential spill, that impacts or threatens to impact the Yakima River upstream of river mile 103.85. The Sunnyside Valley Irrigation District will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions may include closing the Sunnyside Canal head gate, or opening the sluice gate to redirect water away from the head gate.

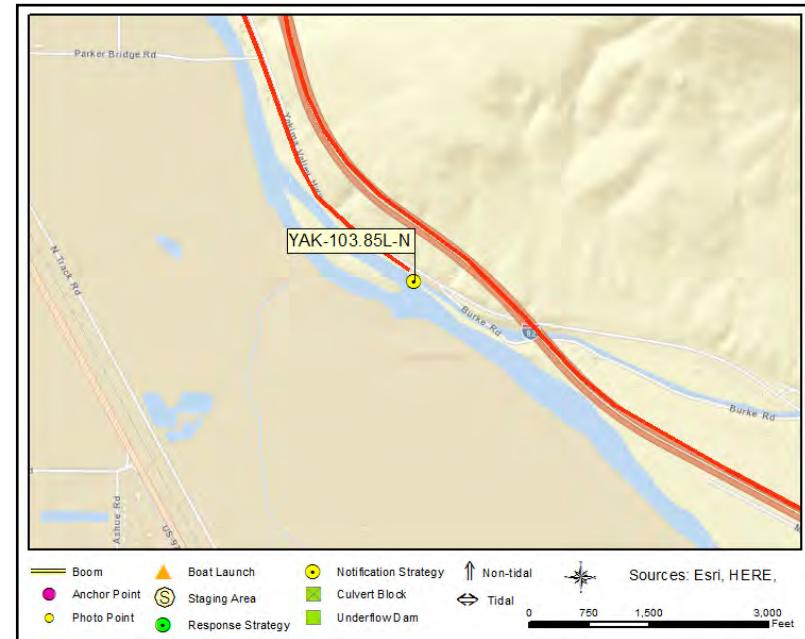


Sunnyside Diversion Dam and Canal Head Gate

YAK-103.85L-N

No Photograph Available

YAK-103.85L-N Photo: Photo Not Available



Site Contact

Sunnyside Valley Irrigation District

Emergency Contact : Manages Sunnyside Diversion Dam & canal

Sunnyside, WA 98944
509-837-6980

Nearest Address

980 Yakima Valley Highway
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.73 miles)
5. Turn off and Finish at 980 Yakima Valley Highway, 98951, the Sunnyside Canal Head Gate is on the right

US Bureau of Reclamation Yakima Field Office

YAK-114.75-N

Position - Location: 46° 36.978', -120° 28.700' 46° 36' 58.7", -120° 28' 42.0" 46.61630, -120.47833 Yakima

Strategy Objective: Notification : Notify the US Bureau of Reclamation about the spill so they can take timely action to protect the resources under their

Implementation: Call US Bureau of Reclamation Yakima Field Office Operations Manager, at 509-406-3031

Field Notes: Individual response strategies located at irrigation facilities will have contact information for those facilities on the 2-pagers found in Appendix 4-A of the YAK-GRP

Watercourse: River - Below a Dam - Yakima River from the Roza Diversion Dam to the Wanawish Diversion Dam

Resources at Risk: Economic Resource, Fish Ladder(s), Fish Screens, Public Lands/Facilities, Water Intakes



Communication Process and Action:

Call the US Bureau of Reclamation Yakima Field Office Operations Manager at 509-406-3031, and inform him of any significant oil spill or potential spill that impacts or threatens to impact the Yakima River within the planning area so that they can take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions might include the closure of water intake pumps, fish ladders and fish gates, or modification of flow through diversion dams. They will also contact the following irrigation districts with diversions off of USBR facilities: Roza, Sunnyside, Wapato, Kennewick, Union Gap, Selah Moxee, and Columbia.



RECLAMATION
Managing Water in the West

YAK-114.75-N Photo: US Bureau of Reclamation



Site Contact

US Bureau of Reclamation

Primary Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

1917 Marsh Rd
Yakima, WA 98901

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (70.8 miles)
2. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
3. At fork keep right on Terrace Hts (0.16 miles)
4. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles)
5. Turn left on Butterfield Rd (0.5 miles)
6. Turn left on Marsh Rd (0.41 miles)
7. Finish at the US Bureau of Reclamation Yakima Field Office 1917 Marsh Rd, 98901, on the left

APPENDIX 4C
Staging Area 2-Pagers

STAGING AREAS - LIST

SA-M-334R **	SA-NACH-10.5L	SA-YAK-0.5R **	SA-YAK-8.75L
SA-YAK-16.25L	SA-YAK-18.7L	SA-YAK-29.6L	SA-YAK-35.95L
SA-YAK-46.5L	SA-YAK-47.65R	SA-YAK-59.8L	SA-YAK-66.8R
SA-YAK-82.8L	SA-YAK-91.05L	SA-YAK-94.5R	SA-YAK-99.4R
SA-YAK-103.05L	SA-YAK-106.3L	SA-YAK-107.1L	SA-YAK-116.7L
SA-YAK-129.4L	SA-YAK-130.6L		

**Staging Areas from the Middle Columbia River McNary Pool GRP that are included in this appendix

Columbia Park Marina

SA-M-334R

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-334.3M, M-334R

Location Information

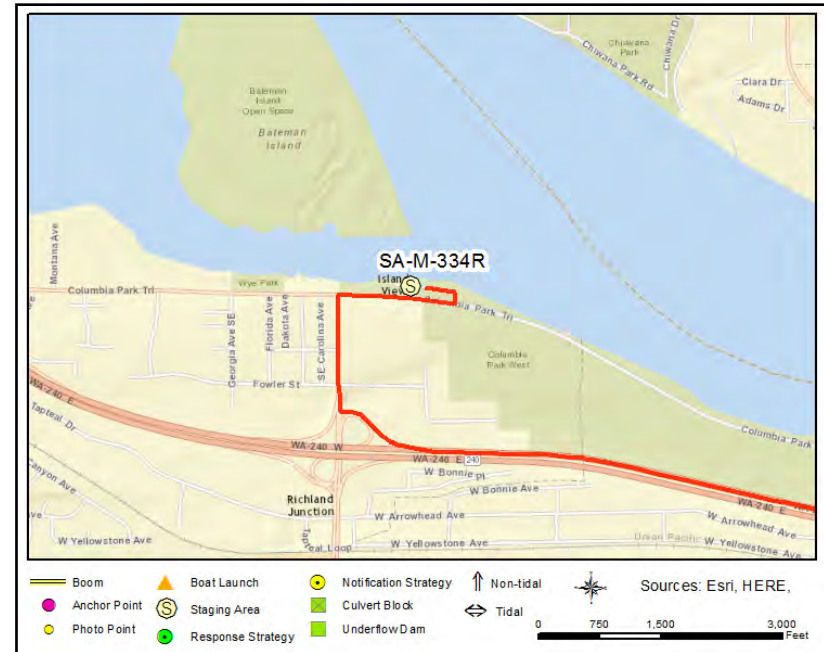
Asset	Type/Status	Amount/Number
		Marina has 4 boat houses
Boat Dock(s)	Yes	Room for ~40 boats at docks
Boat Ramp(s)	Concrete, Solid	Three concrete ramps 7-8 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		Paved and striped 70,000 sq ft
Fuel	Yes	
Parking - Car	Marked	Spaces for 55 cars, 40 trailers
Parking - Trailer	Marked	Spaces for 55 cars, 40 trailers
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	
Water (potable)	Yes	

Columbia Park Marina

SA-M-334R



SA-M-334R 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)

Naches 10.5 Primitive Boat Launch

SA-NACH-10.5L

Staging Area

Position - Location: 46° 42.172', -120° 39.640' 46° 42' 10.3", -120° 39' 38.4" 46.70286, -120.66067 Naches

Comments: WDFW water access site



GRP Response Strategies Served:

NACH-10.15L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	Hand launch only
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		7500 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	3
Power	No	
Restroom	None	
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Naches 10.5 Primitive Boat Launch

SA-NACH-10.5L



SA-NACH-10.5L Photo: View of the shoreline at Naches River Boat Launch

Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

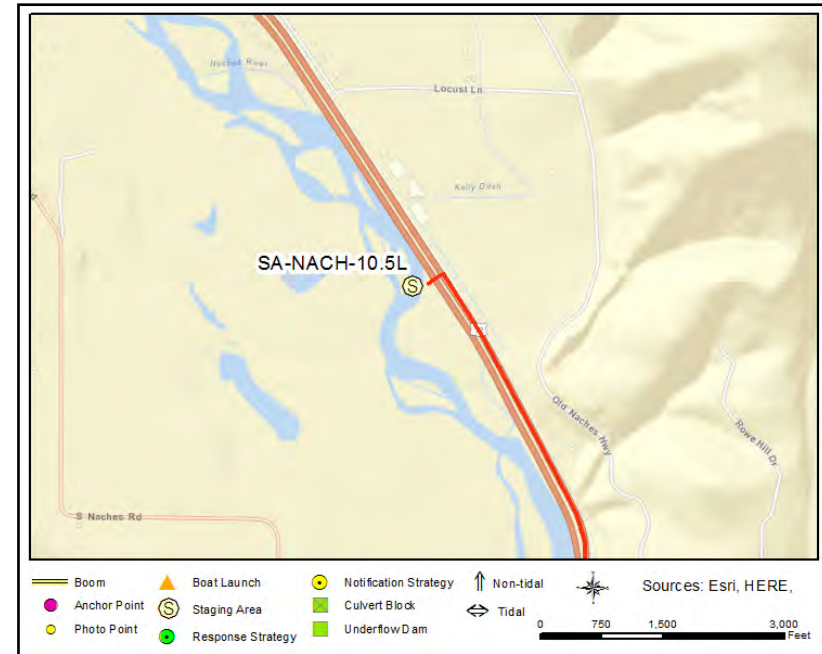
Yakima, WA 98902

509-575-2740

Nearest Address

7458 US-12

Naches, WA 98937



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-NACH10.5L/BL-NACH-10.5L) Naches River Mile 10.5 Water Primitive Boat Launch

1. Head west from Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Finish at 7458 US-12, 98937, on the left

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 can handle 3 boats
Boat Ramp(s)	Gravel	Gravel ramp with 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		10,500 sq ft of paved parking
Parking - Car	Marked	Spaces for 10 cars
Parking - Trailer	Marked	Spaces for 4 trailers
Power	Yes	Power at restroom
Restroom	Restroom - Flush	
User Fee	No	
Waste Disposal		
Water (potable)	Yes	

GRP Response Strategies Served:

YAK-0.5R

Wye Park boat launch

SA-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

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

Hyde Road Boat Launch

SA-YAK-8.75L

Staging Area

Position - Location: 46° 18.032', -119° 19.854' 46° 18' 1.9", -119° 19' 51.2" 46.30054, -119.33090 Richland

Comments: WDFW boat launch



GRP Response Strategies Served:

YAK-6.2R, YAK-11.5R, YAK-10.9L, YAK-8.75L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Single lane, 7 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		14,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	5
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Hyde Road Boat Launch

SA-YAK-8.75L



SA-YAK-8.75L Photo: View of the boat ramp at the end of Hyde Road

Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

3100 Hyde Road
Richland, WA 99354



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354

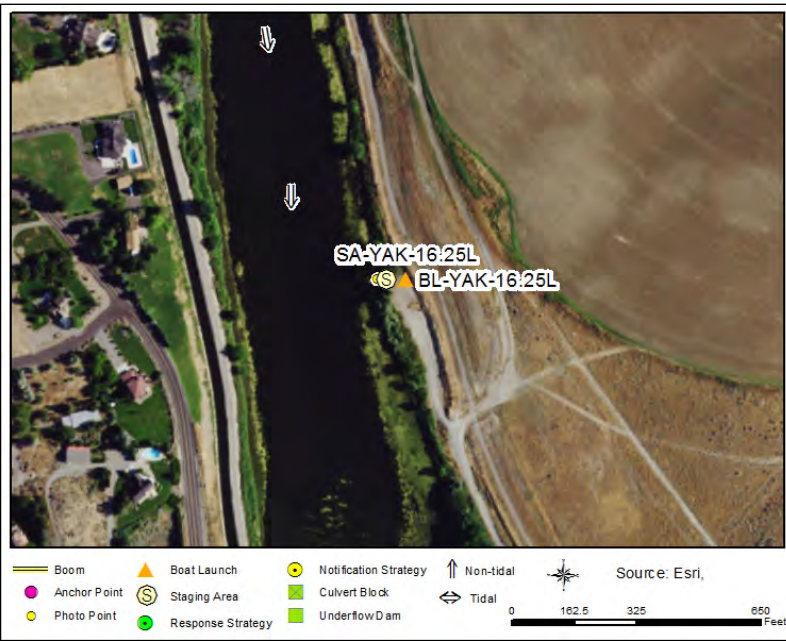
North Snively Road Boat Launch

SA-YAK-16.25L

Staging Area

Position - Location: 46° 21.597', -119° 23.780' 46° 21' 35.8", -119° 23' 46.8" 46.35995, -119.39634 West Richland

Comments: WDFW boat launch, may see heavy use seasonally



GRP Response Strategies Served:

YAK-13.3L, YAK-14.1L, YAK-16.25L, YAK-14.0R, YAK-15.15R

Location Information

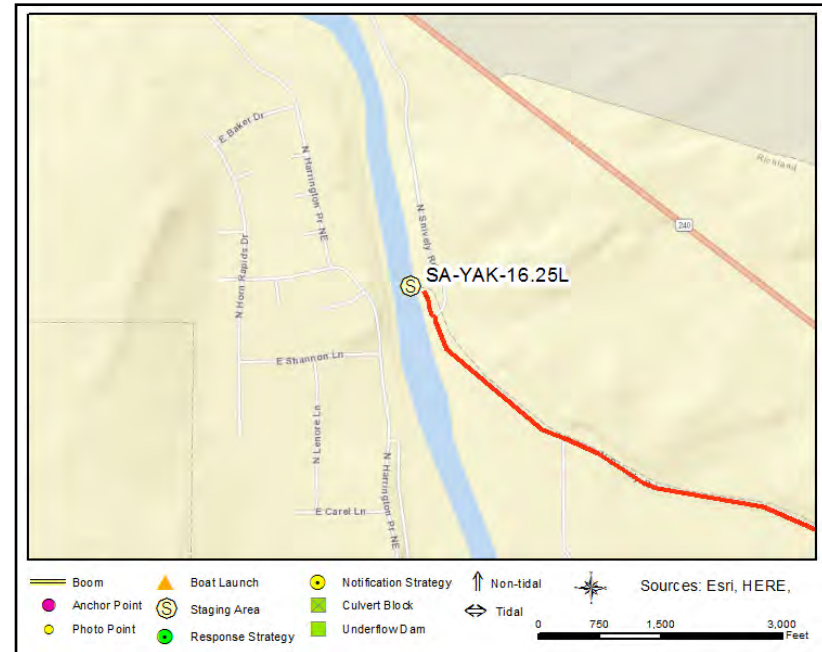
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Singe lane, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		15,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	25
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

North Snively Road Boat Launch

SA-YAK-16.25L



SA-YAK-16.25L Photo: View of the boat ramp at WDFW's Snively Road access site



Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

4116 N Snively Rd
West Richland, WA 99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head west from West Pasco on I-182
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (2.89 miles)
6. Turn right on Grosscup Blvd (0.78 miles)
7. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
8. Turn left on N Grosscup Rd (0.53 miles)
9. Continue on N Yakima River Dr (0.1 miles)
10. Turn right on Twin Bridges Rd (0.29 miles)
11. Turn left on N Snively Rd (2.8 miles)
12. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

Horn Rapids Park Boat Launch

SA-YAK-18.7L

Staging Area

Position - Location: 46° 22.826', -119° 25.932' 46° 22' 49.6", -119° 25' 55.9" 46.38044, -119.43220 Benton City

Comments: Horn Rapids Park has a campground, to the west of the staging area, with flush toilets, showers, power, water, trash etc.



GRP Response Strategies Served:

YAK-22.7L, YAK-20.4L, YAK-18.35R, YAK-18.8L

Location Information

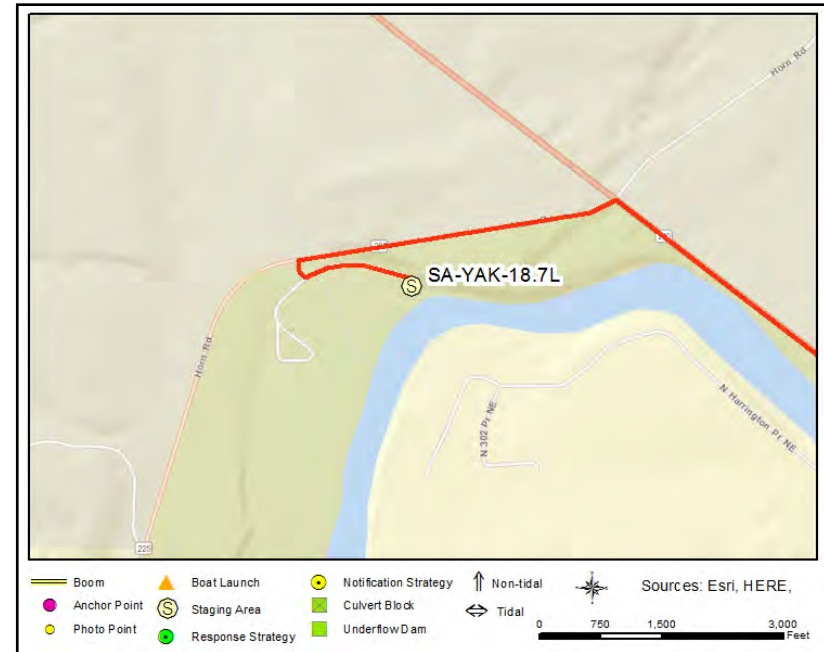
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	2 lanes, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	Yes	
Estimated Lot Size		27,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	50
Parking - Trailer	Marked	6
Power	Yes	At the campground
Restroom	Restroom - Vault	2
User Fee	No	
Waste Disposal	Trash Receptacle	1 Dumpster
Water (potable)	Yes	At the campground

Horn Rapids Park Boat Launch

SA-YAK-18.7L



SA-YAK-18.7L Photo: View of the Horn Rapids Boat Ramp



Site Contact

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

Nearest Address

115799 N WA-225
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage 0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.

Benton City Boat Launch

SA-YAK-29.6L

Staging Area

Position - Location: 46° 15.280', -119° 28.445' 46° 15' 16.8", -119° 28' 26.7" 46.25467, -119.47409 Benton City

Comments: WDFW water access site



GRP Response Strategies Served:

YAK-28.1L, YAK-32.2L, YAK-29.8R, YAK-26.9R, YAK-32.9L, YAK-29.55L

Location Information

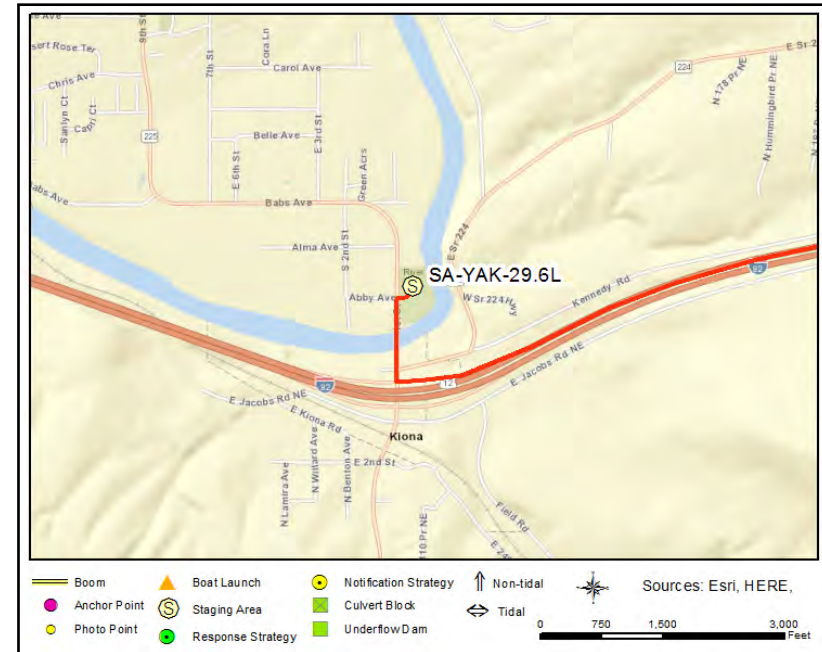
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single ramp, 4 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		50,000 sq ft
Fuel	No	
Lot Cover (Primary)	Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Portable	2
User Fee	Yes	Discover Pass
Waste Disposal	Trash Receptacle	3 cans
Water (potable)	Yes	

Benton City Boat Launch

SA-YAK-29.6L



SA-YAK-29.6L Photo: View of the Benton City boat launch



Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

101 Abby Ave
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

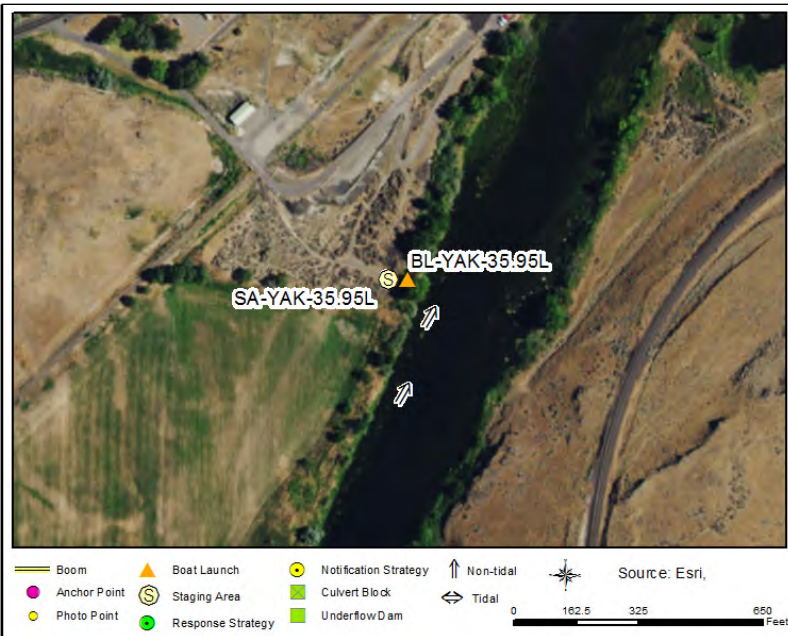
Just Upstream of the Chandler Power Plant

SA-YAK-35.95L

Staging Area

Position - Location: 46° 15.877', -119° 35.467' 46° 15' 52.6", -119° 35' 28.0" 46.26461, -119.59112 Benton City

Comments: Dirt track to a clearing beside the river



GRP Response Strategies Served:

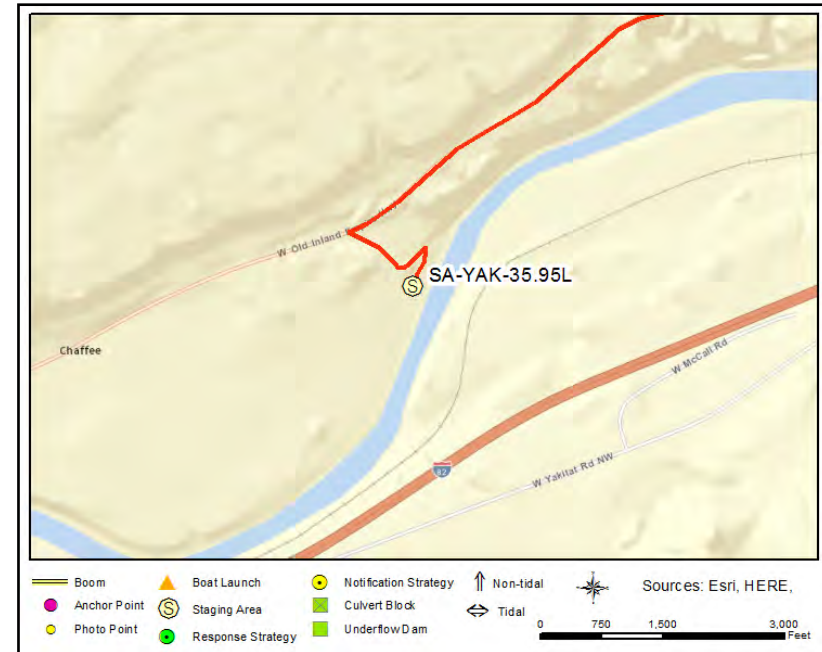
YAK-35.95L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	Steep grade during low water
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		5,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt	100%
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	2
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	



SA-YAK-35.95L Photo: View of the dirt boat ramp just upstream of the Chandler Power Plant



Site Contact

US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

47400 W Old Inland Empire Hwy
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK35.95L/BL-YAK-35.95L) Upstream of Chandler Power Plant

1. Head west from West Pasco on I-82 W to Yakima
2. At exit 96 take ramp on the right to WA-224 E/ WA-225 N to W Richland/Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (4.5 miles)
10. Half a mile before 47400 W Old Inland Empire Hwy turn left at gravel drive for Chandler Power Plant. After a 90 degree turn, take the first right onto a dirt track. Go straight until the track dead ends at a T intersection; turn left and head toward the river.
11. Finish just up from the Chandler Power Plant on Old Inland Empire Hwy, Benton City, WA 99320

Prosser Wastewater Treatment Plant Boat Launch

SA-YAK-46.5L

Staging Area

Position - Location: 46° 12.750', -119° 45.935' 46° 12' 45.0", -119° 45' 56.1" 46.21250, -119.76559 Prosser

Comments: Property is gated and locked after hours. Coordinate with City of Prosser for access; call 509-786-2332. May need to cut chain (not locks) after-hours if city contacts unavailable



GRP Response Strategies Served:

YAK-42.9L, YAK-41.9L

Location Information

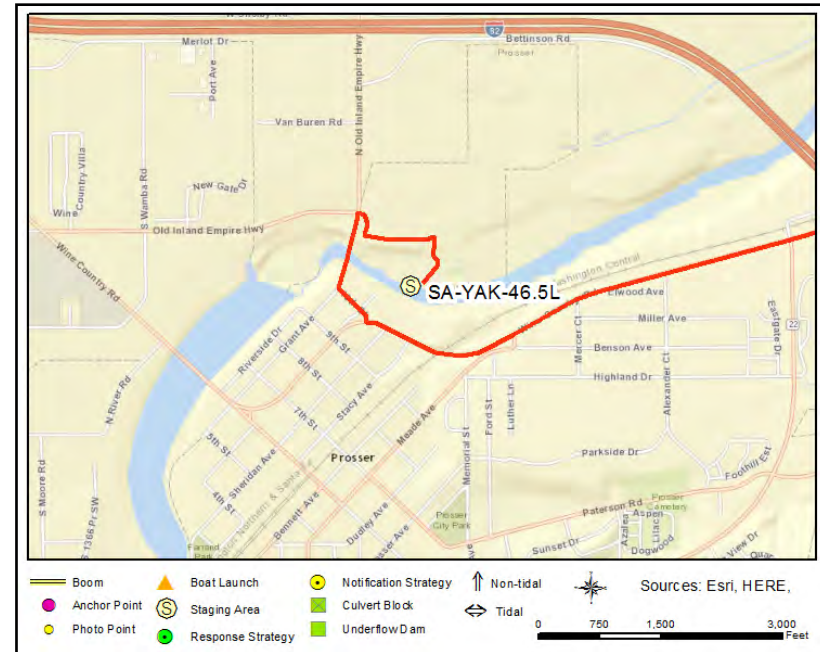
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	Single lane, 5 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		5,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	50%
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	2
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Prosser Wastewater Treatment Plant Boat Launch

SA-YAK-46.5L



SA-YAK-46.5L Photo: View of the river's edge at the Prosser Wastewater Treatment Facility primitive boat launch



Site Contact

City of Prosser

Primary Contact : City Dispatch (Wastewater Treatment Facility)

Prosser, WA 99350
509-786-2332

Nearest Address

999 Grande Rd
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA99350.

Riverfront Park Boat Launch

SA-YAK-47.65R

Staging Area

Position - Location: 46° 12.248', -119° 46.624' 46° 12' 14.9", -119° 46' 37.5" 46.20414, -119.77707 Prosser

Comments: Additional parking close by



GRP Response Strategies Served:

YAK-47.2R, YAK-47.65R

Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Concrete, Solid	Double ramps, 8 degree grade
Cell Phone Coverage	Yes	4G
Covered Spaces	Yes	Pavilion nearby
Estimated Lot Size		22,500 sq ft
Lot Cover (Primary)	Asphalt	70% asphalt, 30% gravel
Parking - Car	Marked	10
Parking - Trailer	Not Marked	10
Power	Yes	
Restroom	Restroom - Flush	Bathrooms at Farrand Park across street
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	

Riverfront Park Boat Launch

SA-YAK-47.65R



SA-YAK-47.65R Photo: View of the boat launch at Riverfront Park in Prosser

Site Contact

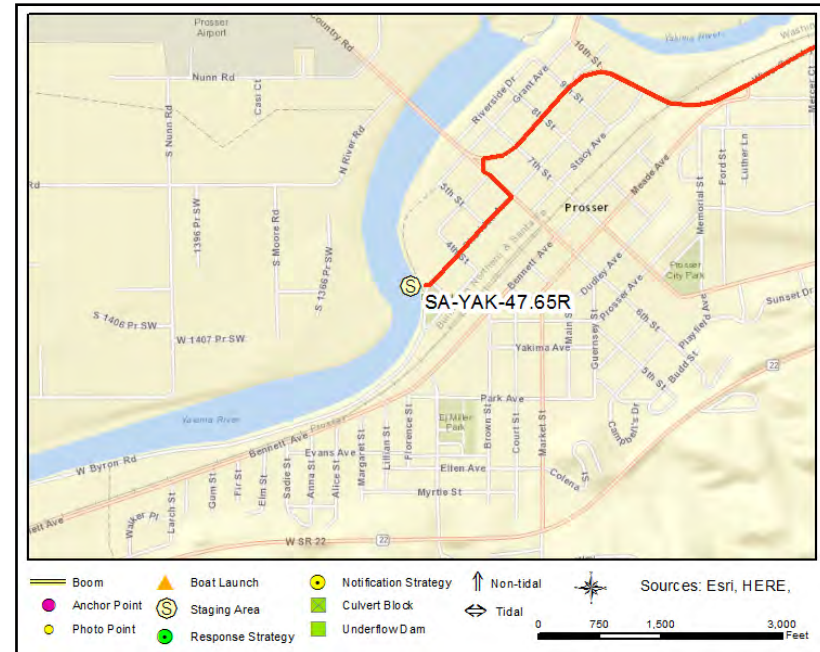
City of Prosser

Land/Property Contact : Parks and Recreation

Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-47.65R/BL-YAK-47.65R) Riverfront Park Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.

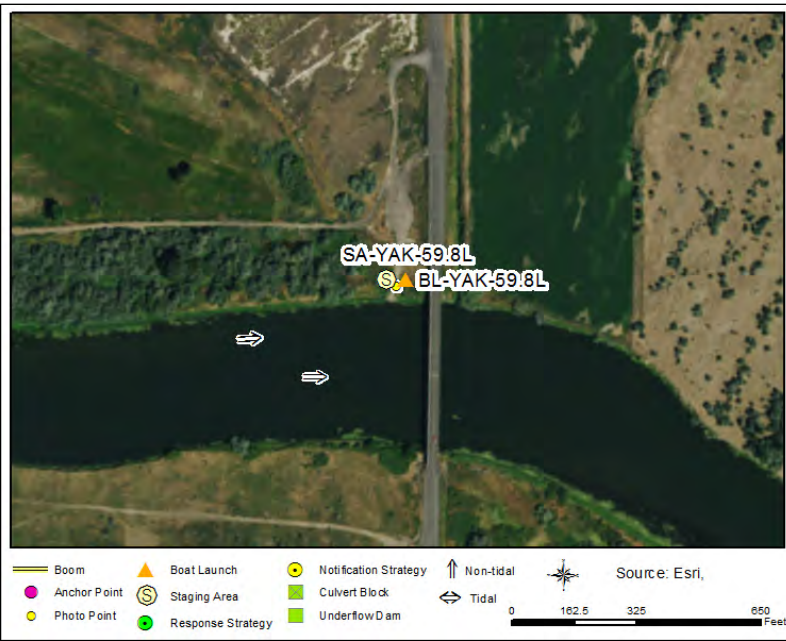
Mabton Bridge Boat Launch

SA-YAK-59.8L

Staging Area

Position - Location: 46° 13.930', -119° 59.993' 46° 13' 55.8", -119° 59' 59.6" 46.23216, -119.99989 Mabton

Comments: WDFW aquatic lands open to hunting



GRP Response Strategies Served:

YAK-61.2L, YAK-55.4R, YAK-60.45R, YAK-59.8L, YAK-55.3M, YAK-60.2R

Location Information

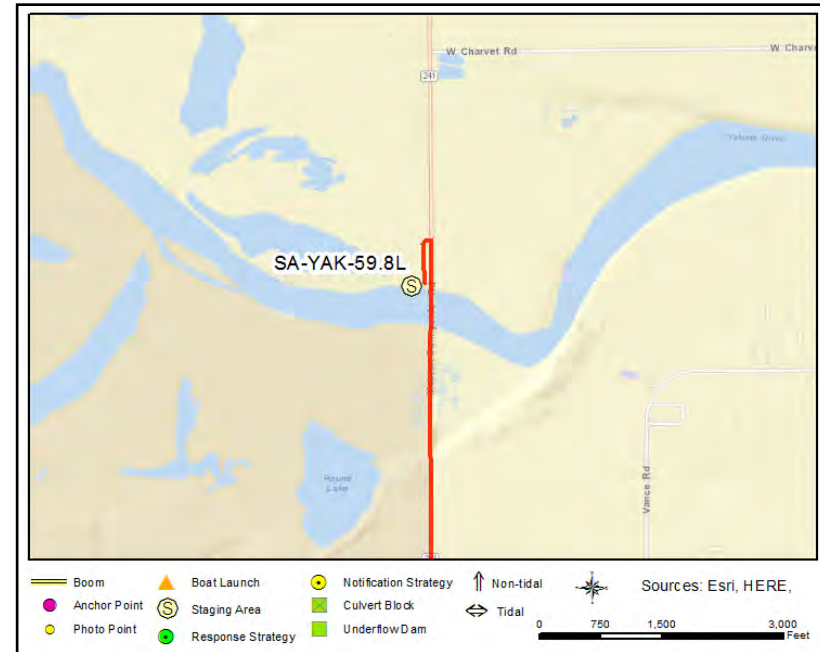
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Single lane, 4 degree grade
Cell Phone Coverage	Yes	4G
Covered Spaces	No	
Estimated Lot Size		10,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	10
Power	No	
Restroom	None	
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Mabton Bridge Boat Launch

SA-YAK-59.8L



SA-YAK-59.8L Photo: View of the Mabton Bridge primitive boat launch



Site Contact

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.

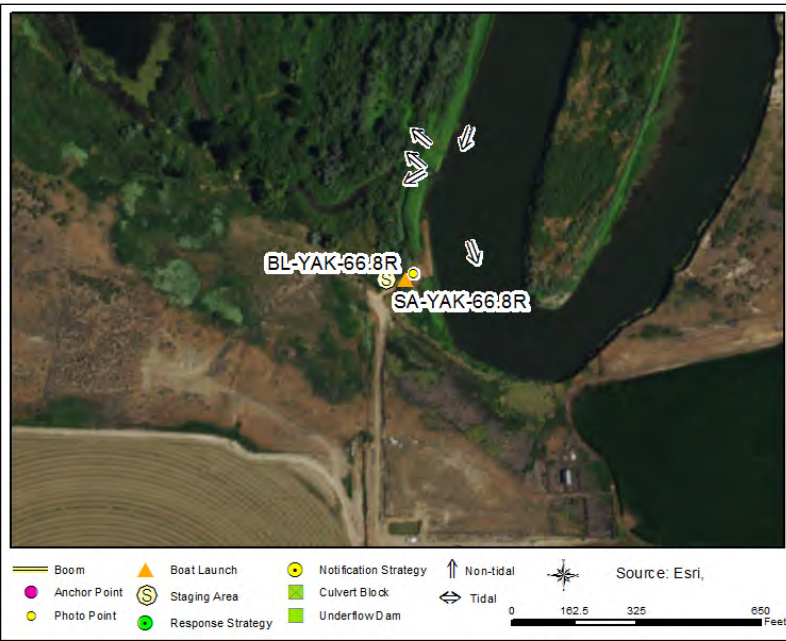
Bond Road Primitive Boat Launch

SA-YAK-66.8R

Staging Area

Position - Location: 46° 14.566', -120° 5.014' 46° 14' 34.0", -120° 5' .8" 46.24277, -120.08356 Mabton

Comments: Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.



GRP Response Strategies Served:

YAK-63.8L, YAK-69.0R, YAK-70.25L, YAK-66.85R, YAK-65.7L, YAK-65.2L, YAK-69.3R, YAK-69.5R, YAK-66.8R

Location Information

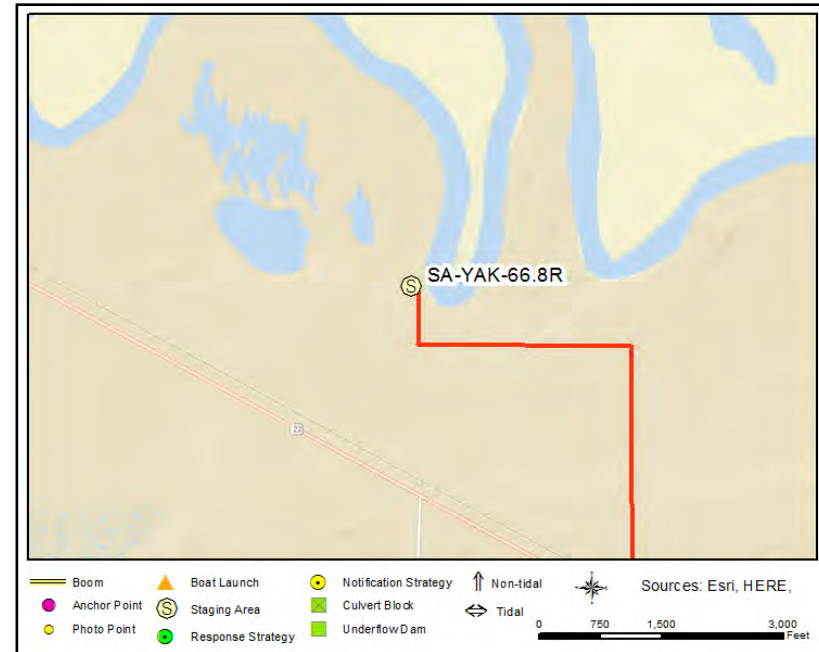
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	single lane, 4 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		3,500 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt	
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	3
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Bond Road Primitive Boat Launch

SA-YAK-66.8R



SA-YAK-66.8R Photo: View of the shoreline at low water conditions, OK for hand launch BL-YAK-66.8R



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Granger Public Works Boat Launch

SA-YAK-82.8L

Staging Area

Position - Location: 46° 20.126', -120° 11.730' 46° 20' 7.6", -120° 11' 43.8" 46.33544, -120.19550 Granger

Comments: No access issues (not gated)



GRP Response Strategies Served:

YAK-78.0L, YAK-80.55R, YAK-84.6R, YAK-77.05R, YAK-77.5R, YAK-74.9L, YAK-84.1R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single lane, 7 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		40,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	10
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Granger Public Works Boat Launch

SA-YAK-82.8L



SA-YAK-82.8L Photo: View of the boat launch at Granger Public Works on East A Street

Site Contact

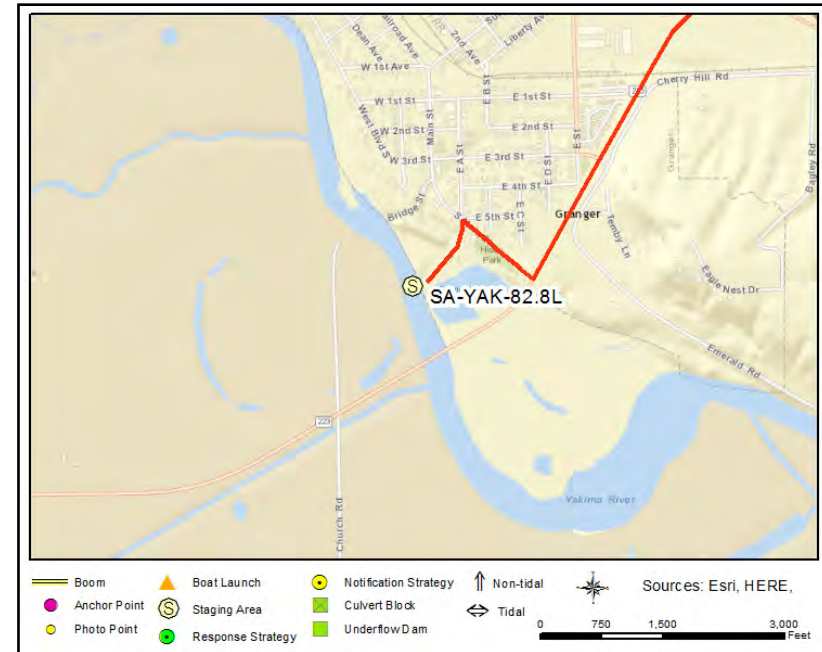
City of Granger

Land/Property Contact : Public Works

Granger, WA 98932
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK82.8L/BL-YAK-82.8L Granger Public Works Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

North Meyers Road Boat Launch

SA-YAK-91.05L

Staging Area

Position - Location: 46° 24.045', -120° 16.856' 46° 24' 2.7", -120° 16' 51.3" 46.40075, -120.28093 Toppenish

Comments: WDFW boat launch



GRP Response Strategies Served:

YAK-87.55L, YAK-91.7L, YAK-90.7R, YAK-92.45M, YAK-88.75L, YAK-90.95R, YAK-91.85R, YAK-92.6L, YAK-87.0L, YAK-89.9R

Location Information

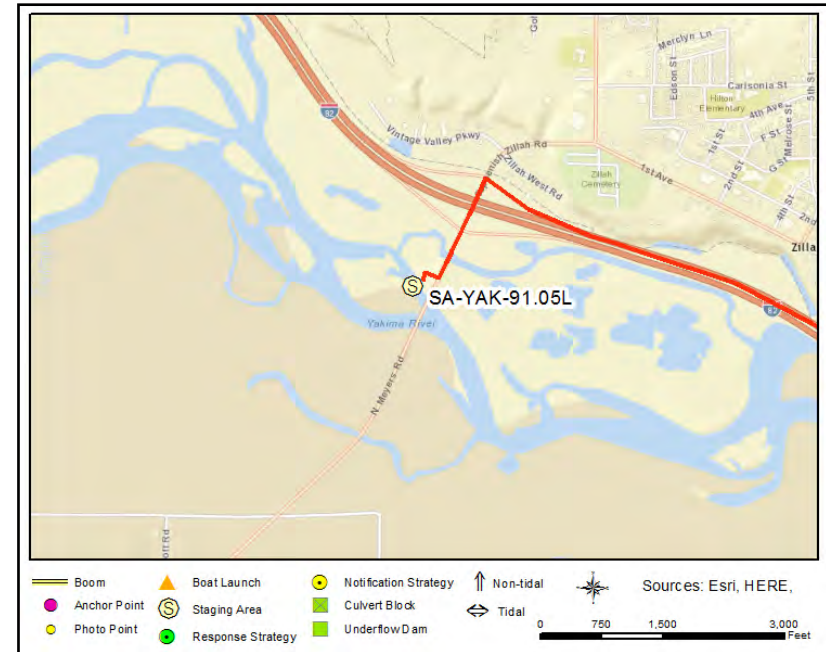
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Single lane, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		13,000 sq ft
Fuel	No	
Lot Cover (Primary)	Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	5
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

North Meyers Road Boat Launch

SA-YAK-91.05L



SA-YAK-91.05L Photo: View of the N Meyers Rd boat launch



Site Contact

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Wierman Road Primitive Boat Launch

SA-YAK-94.5R

Staging Area

Position - Location: 46° 25.150', -120° 20.002' 46° 25' 9.0", -120° 20' .1" 46.41916, -120.33336 Toppenish

Comments: Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.



GRP Response Strategies Served:

YAK-94.15R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Gravel beach, 5 degree grade
Cell Phone Coverage	Yes	4 bars
Covered Spaces	No	
Estimated Lot Size		10,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	15
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Wierman Road Primitive Boat Launch

SA-YAK-94.5R



SA-YAK-94.5R Photo: View of the gravel beach boat launch off Wierman Road



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1402 Wierman Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK94.5R/BL-YAK94.5R) Wierman Road Primitive Boat Launch

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (0.51 miles)
7. Turn right on Wierman Rd (1.65 miles)
8. Turn right just after 1402 Wierman Rd, 98948, on the left, follow dirt track off to the right the river (0.2 miles)

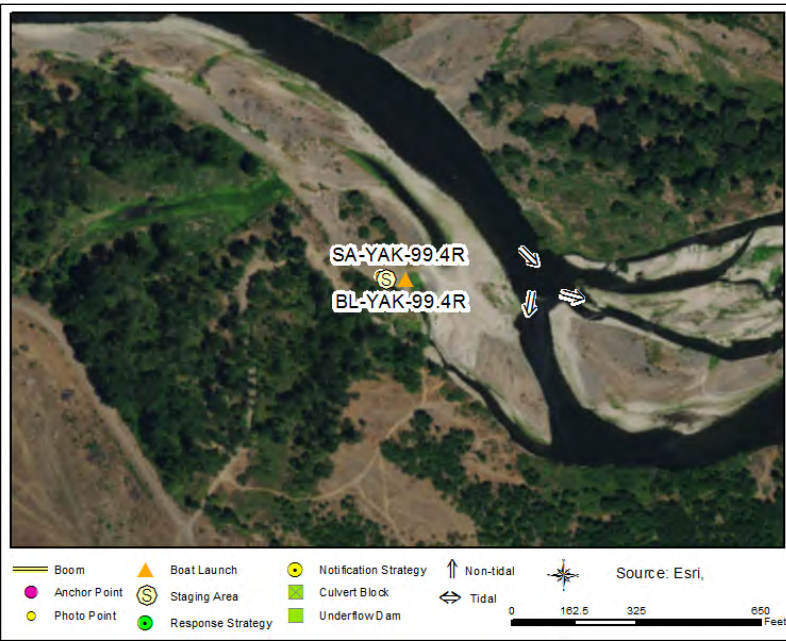
East Wapato Road Primitive Boat Launch

SA-YAK-99.4R

Staging Area

Position - Location: 46° 27.488', -120° 23.065' 46° 27' 29.3", -120° 23' 3.9" 46.45813, -120.38441 Wapato

Comments: Cobblestone beach off dirt/gravel road. Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.



GRP Response Strategies Served:

YAK-99.4L, YAK-97.95M, YAK-98.15L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Beach, 3 degree grade
Cell Phone Coverage	Yes	~2 bars
Covered Spaces	No	
Estimated Lot Size		~4000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	4
Power	No	
Restroom	None	
User Fee	No	Contact Yakama Nation
Waste Disposal	None	
Water (potable)	No	

East Wapato Road Primitive Boat Launch

SA-YAK-99.4R



SA-YAK-99.4R Photo: View of the cobblestone primitive boat launch at SA/BL-YAK-99.4R



Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1561 E Wapato Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752

Mellis Frontage Road Boat Launch

SA-YAK-103.05L

Staging Area

Position - Location: 46° 29.451', -120° 25.854' 46° 29' 27.1", -120° 25' 51.2" 46.49085, -120.43090 Wapato

Comments: WDFW water access site



GRP Response Strategies Served:

YAK-103.1R, YAK-102.2L, YAK-102.1R

Location Information

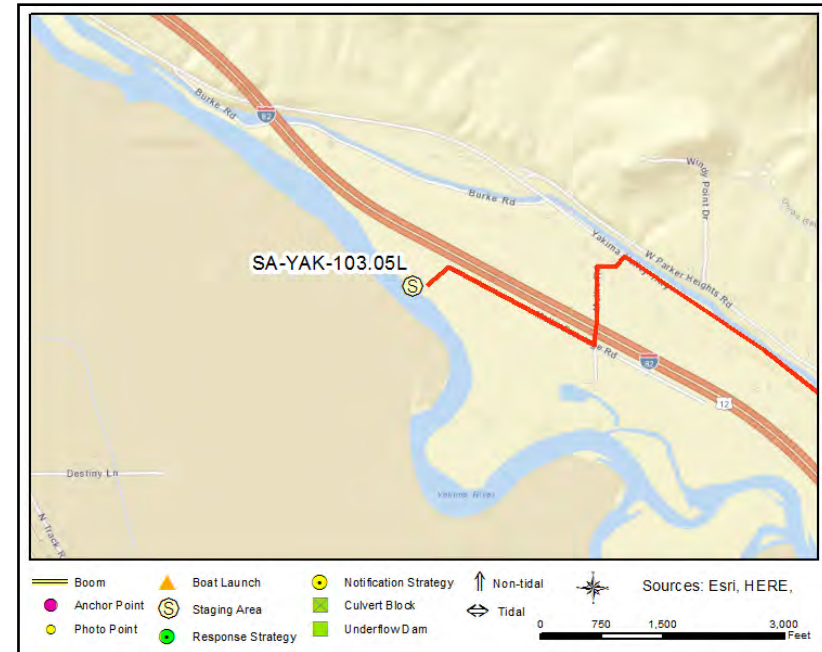
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	1 lane, 9 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		30,000 sq ft
Fuel	No	
Lot Cover (Primary)	Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Mellis Frontage Road Boat Launch

SA-YAK-103.05L



SA-YAK-103.05L Photo: View of the Mellis Frontage Rd boat launch



Site Contact

WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
3. At exit 44 take ramp on the right toward Wapato (0.4 miles)
4. Turn right on Donald Wapato Rd (0.39 miles)
5. Turn left on Yakima Valley Hwy (1.59 miles)
6. Turn left on Mellis Rd (0.3 miles), then turn right as soon as you go under the expressway.
7. Follow Mellis Frontage Rd until it ends at the WDFW boat launch parking area (0.4 miles). Use 300 Mellis Rd, Wapato, WA as an address for your navigation system.

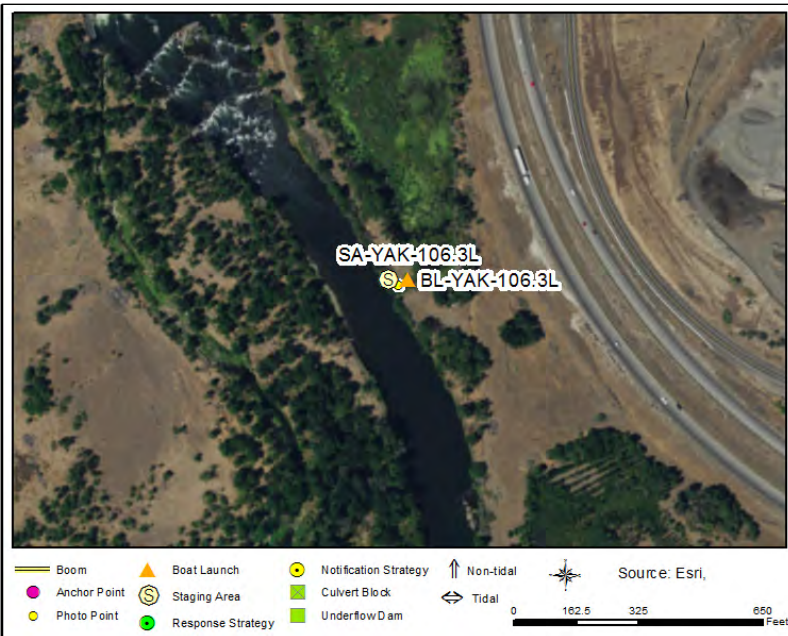
0.2 Miles Downstream of the Wapato East Spillway

SA-YAK-106.3L

Staging Area

Position - Location: 46° 31.355', -120° 28.298' 46° 31' 21.3", -120° 28' 17.9" 46.52258, -120.47163 Wapato

Comments: Call and coordinate access with the Wapato Irrigation District 509-877-3155 ext 2. Site is on Bureau of Indian Affairs land.



GRP Response Strategies Served:

YAK-105.8R

Location Information

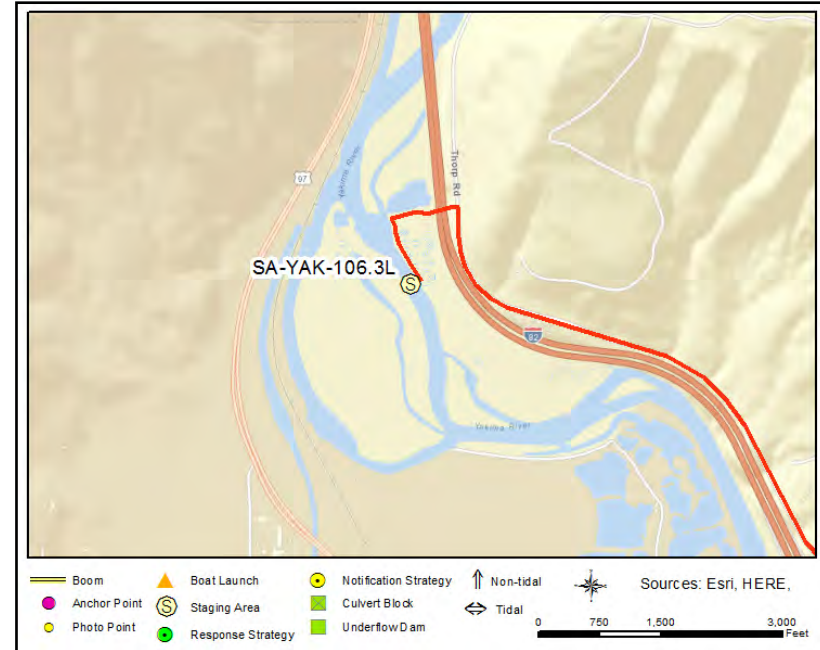
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	None	
Cell Phone Coverage	Yes	2 bars
Covered Spaces	No	
Estimated Lot Size		7500 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	3
Parking - Trailer	Not Marked	2
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

0.2 Miles Downstream of the Wapato East Spillway

SA-YAK-106.3L



SA-YAK-106.3L Photo: View of the put in to hand launch at BL-YAK-106.3L



Site Contact

Wapato Irrigation District (Bureau of Indian Affairs)

Land/Property Contact : Emergency contact
509-877-3155 ext. 3

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

1811 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK106.3L/BL-YAK-106.3L) 0.2 Miles
Downstream of the Wapato East Spillway

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (2 miles)
4. Turn left to go under I-82 through the tunnel. Go past the Wapato spillway then follow the dirt/gravel drive to the left until you reach a stream crossing (0.3 miles).
5. Finish at BL/SA-YAK-106.3L

Century Landing Boat Launch

SA-YAK-107.1L

Staging Area

Position - Location: 46° 31.841', -120° 28.217' 46° 31' 50.5", -120° 28' 13.0" 46.53069, -120.47028 Wapato

Comments: Site is managed by the Yakima Greenway Foundation. No access issues (not gated)



GRP Response Strategies Served:

YAK-106.75R, YAK-108.8L

Location Information

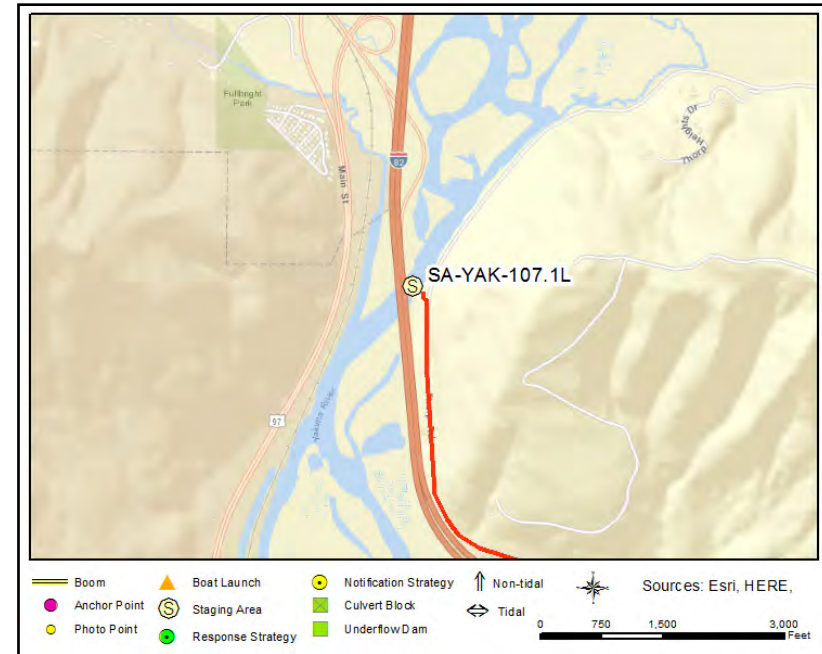
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	1
Cell Phone Coverage	Yes	4G
Covered Spaces	No	
Estimated Lot Size		7,500 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Not Marked	7
Parking - Trailer	Not Marked	7
Power	No	
Restroom	Restroom - Vault	1
User Fee	No	
Waste Disposal	Trash Receptacle	3
Water (potable)	No	

Century Landing Boat Launch

SA-YAK-107.1L



SA-YAK-107.1L Photo: View of the Century Landing Boat Launch



Site Contact

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

82 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.

Harlan Landing Park

SA-YAK-116.7L

Staging Area

Position - Location: 46° 37.895', -120° 31.305' 46° 37' 53.7", -120° 31' 18.3" 46.63158, -120.52175 Yakima

Comments: No access issues (not gated), park may be busy seasonally



GRP Response Strategies Served:

YAK-116.0L, YAK-117.5R, YAK-114.3L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	Single lane, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	Yes	200 sq ft
Estimated Lot Size		20,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	35
Parking - Trailer	Marked	10
Power	No	
Restroom	Restroom - Flush	2
User Fee	No	
Waste Disposal	Trash Receptacle	Dumpster
Water (potable)	No	

Harlan Landing Park

SA-YAK-116.7L



SA-YAK-116.7L Photo: View of the boat launch at Harlan Landing Park

Site Contact

Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

41 Rovetto Road
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK116.7L/BL-YAK-116.7L) Harlan Landing Park

1. Head west from West Richland on I-82 W (65.62 miles)
2. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
3. Turn left on Rest Haven Rd toward Selah (0.08 miles)
4. Continue on Rovetto Rd (0.13 miles)
5. Finish at 41 Rovetto Road, 98901, on the left

Roza Recreation Area

SA-YAK-129.4L

Staging Area

Position - Location: 46° 45.836', -120° 27.397' 46° 45' 50.1", -120° 27' 23.8" 46.76393, -120.45662 Yakima

Comments: Park sees heavy recreational use. Coordinate with US Bureau of Land Management 509-665-2100 for access.



GRP Response Strategies Served:

YAK-129.8L

Location Information

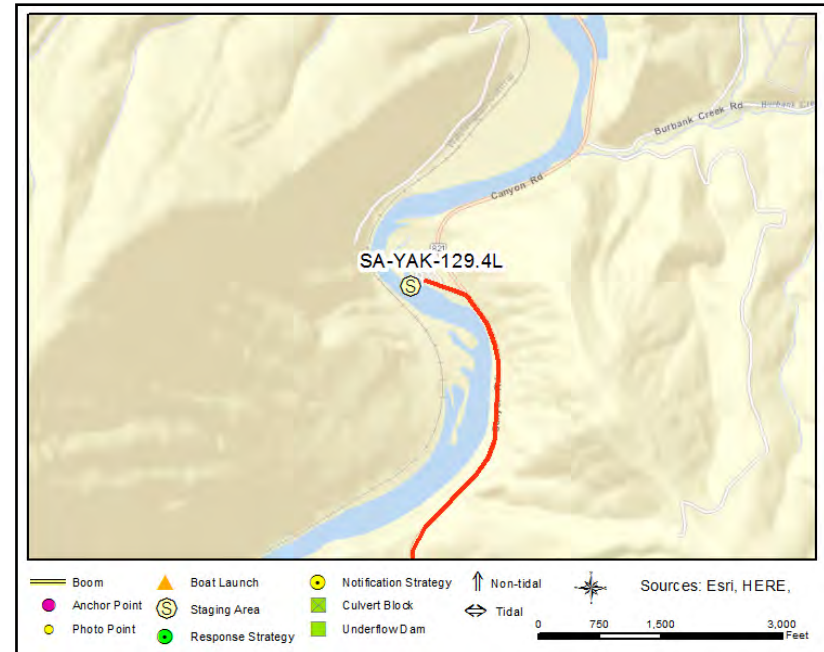
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	2 lanes, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	Yes	75 sq ft
Estimated Lot Size		100,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	100
Parking - Trailer	Marked	20
Power	No	
Restroom	Restroom - Vault	4
User Fee	Yes	\$5 day, \$15 overnight
Waste Disposal	Trash Receptacle	1 Dumpster
Water (potable)	No	

Roza Recreation Area

SA-YAK-129.4L



SA-YAK-129.4L Photo: Roza Recreation Area Boat Ramps



Site Contact

Bureau of Land Management
Primary Contact : Wenatchee Office

Wenatchee, WA 98801
509-665-2100

Nearest Address

8681 Canyon Road
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK129.4L/BL-YAK-129.4L) Roza Recreation Area

1. Head west from Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (74.99 miles)
5. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
6. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
7. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
8. Finish at Roza Recreation Area, 8681 Canyon Road, 98901, on the left.

Mile Post 8 Boat Launch

SA-YAK-130.6L

Staging Area

Position - Location: 46° 46.541', -120° 27.163' 46° 46' 32.5", -120° 27' 9.8" 46.77569, -120.45272 Yakima

Comments: WDFW water access site, may see heavy use seasonally



GRP Response Strategies Served:

YAK-130.6L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single lane, 8 degree grade
Cell Phone Coverage	Yes	2 bars
Covered Spaces	No	
Estimated Lot Size		10,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Vault	2
User Fee	Yes	Discover Pass required
Waste Disposal	None	
Water (potable)	No	

Mile Post 8 Boat Launch

SA-YAK-130.6L



SA-YAK-130.6L Photo: View of the boat launch at WDFW Mile Post 8 water access site

Site Contact

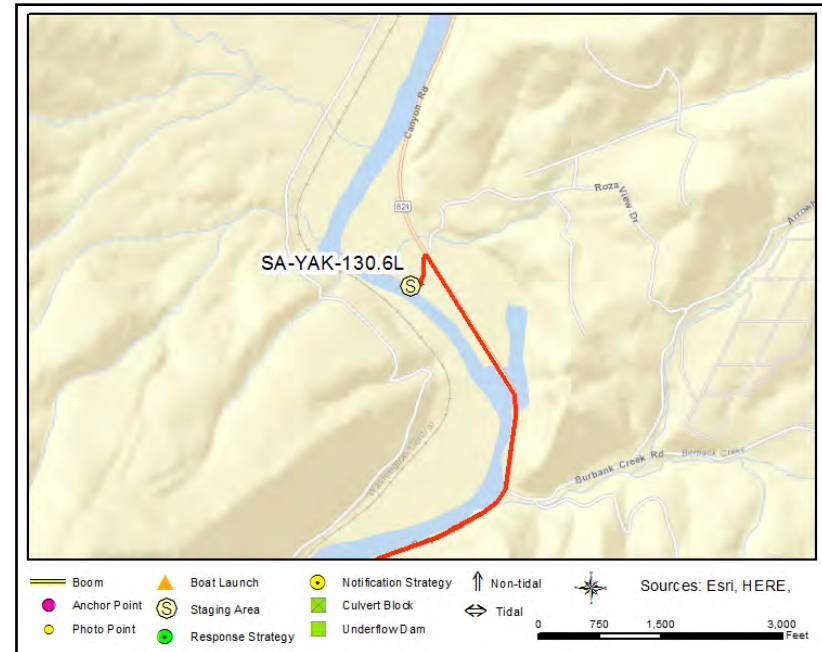
WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

70 Roza View Dr
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK130.6L/BL-YAK-130.6L) Mile Post 8 Boat Launch

1. Head west from West Richland on I-82 W (67.06 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (8.31 miles)
5. Turn left at Roza View Dr (0.01 miles)
6. Finish at Mile Post 8 boat launch (across the Canyon Road from 70 Roza View Dr, 98901), on the left

APPENDIX 4D
Boat Launch 2-Pagers

BOAT LAUNCHES – LIST

BL-M-333.9L **	BL-M-334R **	BL-NACH-10.5L	BL-YAK-0.5R **
BL-YAK-8.75L	BL-YAK-16.25L	BL-YAK-18.7L	BL-YAK-29.6L
BL-YAK-35.95L	BL-YAK-46.5L	BL-YAK-47.65R	BL-YAK-59.8L
BL-YAK-66.8R	BL-YAK-82.8L	BL-YAK-91.05L	BL-YAK-94.5R
BL-YAK-99.4R	BL-YAK-103.05L	BL-YAK-106.3L	BL-YAK-107.1L
BL-YAK-116.7L	BL-YAK-129.4L	BL-YAK-130.6L	

**Boat Launches from the Middle Columbia River McNary Pool GRP that are included in this appendix

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



GRP Response Strategies Served:

M-334.5L

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		Two paved & lined lots = 34,000 sq ft
Parking - Car	Marked	Spaces for 60 cars and 15 trailers
Parking - Trailer	Marked	Spaces for 60 cars and 15 trailers
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	No fee but gated
Waste Disposal	Trash Receptacle	Dumpster and cans
Water (potable)	Yes	

Chiawana Park boat launch **BL-M-333.9L**

Chiawana Park boat launch **BL-M-333.9L**



SA-M-333.9L Photo: Chiawana Park boat launches

Site Contact

City of Pasco Recreation Service

Land/Property Contact :

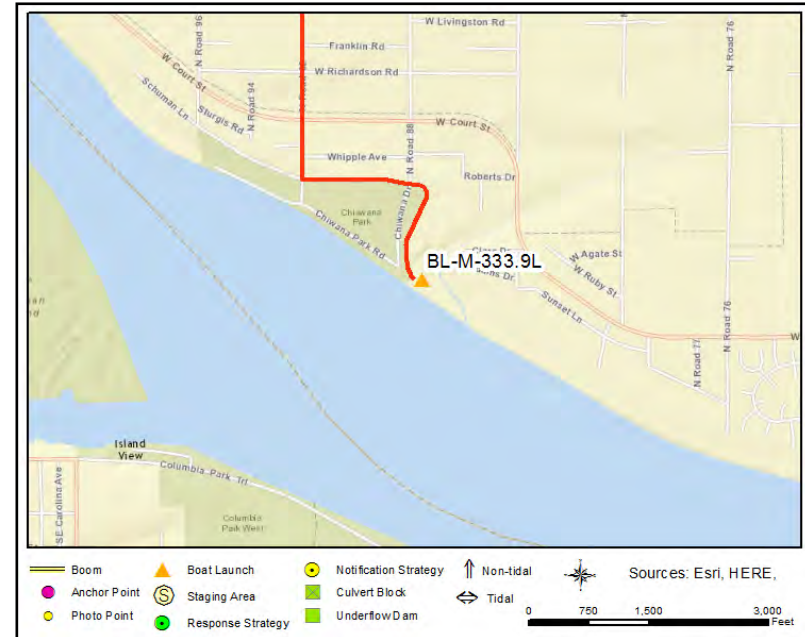
Pasco, WA 99301

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 exit9 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-334R

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



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	Spaces for 55 cars, 40 trailers
Parking - Trailer	Marked	Spaces for 55 cars, 40 trailers
Power	Yes	
Restroom	Restroom - Flush	
User Fee	No	
Water (potable)	Yes	

GRP Response Strategies Served:

M-334.3M, M-334R



SA-M-334R Photo: Columbia Park Marina boat launches

Site Contact

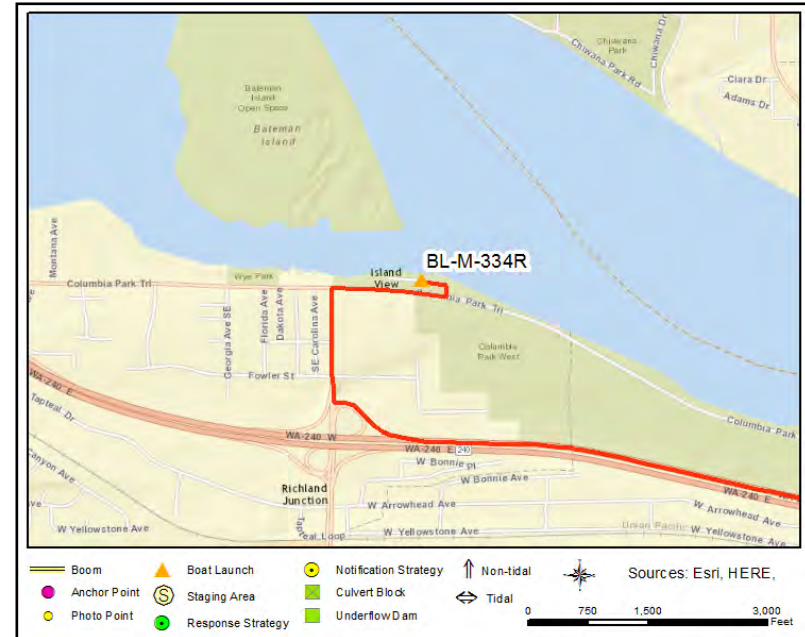
City of Richland Parks and Recreation Department

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 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)

Naches 10.5 Primitive Boat Launch

BL-NACH-10.5L

Boat Launch Location

Position - Location: 46° 42.172', -120° 39.640' 46° 42' 10.3", -120° 39' 38.4" 46.70286, -120.66067 Naches

Comments: HAND LAUNCH SITE ONLY - NO BOAT RAMP AVAILABLE. WDFW water access site



GRP Response Strategies Served:

NACH-10.15L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	Hand launch only
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		7500 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	3
Power	No	
Restroom	None	
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Naches 10.5 Primitive Boat Launch

BL-NACH-10.5L



SA-NACH-10.5L Photo: View of the shoreline at Naches River Boat Launch

Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

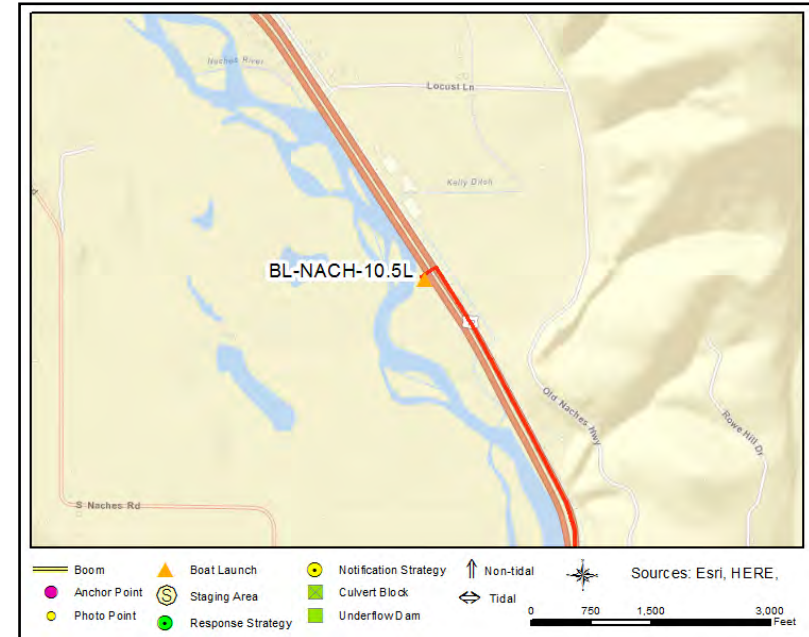
Yakima, WA 98902

509-575-2740

Nearest Address

7458 US-12

Naches, WA 98937



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-NACH10.5L/BL-NACH-10.5L) Naches River Mile 10.5 Water Primitive Boat Launch

1. Head west from Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Finish at 7458 US-12, 98937, on the left

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 can handle 3 boats
Boat Ramp(s)	Gravel	Gravel ramp with 7 degree grade
Cell Phone Coverage	Yes	
Estimated Lot Size		10,500 sq ft of paved parking
Parking - Car	Marked	Spaces for 10 cars
Parking - Trailer	Marked	Spaces for 4 trailers
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-335M

Wye Park boat launch

BL-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

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

Hyde Road Boat Launch

BL-YAK-8.75L

Boat Launch Location

Position - Location: 46° 18.032', -119° 19.854' 46° 18' 1.9", -119° 19' 51.2" 46.30054, -119.33090 Richland

Comments: Launch sees heavy recreational use in summer



GRP Response Strategies Served:

YAK-6.2R, YAK-11.5R, YAK-8.5R, YAK-10.9L, YAK-8.75L, YAK-11.25L, YAK-7.85L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Single lane, 7 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		14,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	5
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Hyde Road Boat Launch

BL-YAK-8.75L



SA-YAK-8.75L Photo: View of the boat ramp at the end of Hyde Road

Site Contact

WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

3100 Hyde Road
Richland, WA 99354



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354

North Snively Road Boat Launch

BL-YAK-16.25L

Boat Launch Location

Position - Location: 46° 21.597', -119° 23.780' 46° 21' 35.8", -119° 23' 46.8" 46.35995, -119.39634 West Richland

Comments: WDFW boat launch, may see heavy use seasonally



GRP Response Strategies Served:

YAK-13.3L, YAK-14.1L, YAK-16.25L, YAK-14.0R, YAK-15.15R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Singe lane, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		15,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	25
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

North Snively Road Boat Launch

BL-YAK-16.25L



SA-YAK-16.25L Photo: View of the boat ramp at WDFW's Snively Road access site

Site Contact

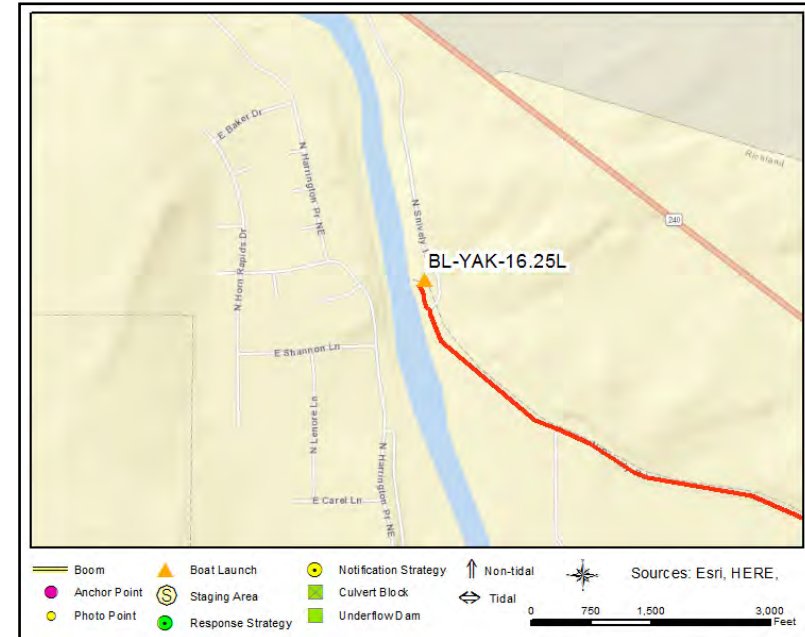
WDFW Region 3 South Central

Primary Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

4116 N Snively Rd
West Richland, WA 99353



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head west from West Pasco on I-182
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (2.89 miles)
6. Turn right on Grosscup Blvd (0.78 miles)
7. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
8. Turn left on N Grosscup Rd (0.53 miles)
9. Continue on N Yakima River Dr (0.1 miles)
10. Turn right on Twin Bridges Rd (0.29 miles)
11. Turn left on N Snively Rd (2.8 miles)
12. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

Horn Rapids Park Boat Launch

BL-YAK-18.7L

Boat Launch Location

Position - Location: 46° 22.826', -119° 25.932' 46° 22' 49.6", -119° 25' 55.9" 46.38044, -119.43220 Benton City

Comments: Horn Rapids Park has a campground, to the west of the staging area, with flush toilets, showers, power, water, trash etc.



GRP Response Strategies Served:

YAK-22.7L, YAK-20.4L, YAK-18.35R, YAK-18.8L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	2 lanes, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	Yes	
Estimated Lot Size		27,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	50
Parking - Trailer	Marked	6
Power	Yes	At the campground
Restroom	Restroom - Vault	2
User Fee	No	
Waste Disposal	Trash Receptacle	1 Dumpster
Water (potable)	Yes	At the campground

Horn Rapids Park Boat Launch

BL-YAK-18.7L



SA-YAK-18.7L Photo: View of the Horn Rapids Boat Ramp

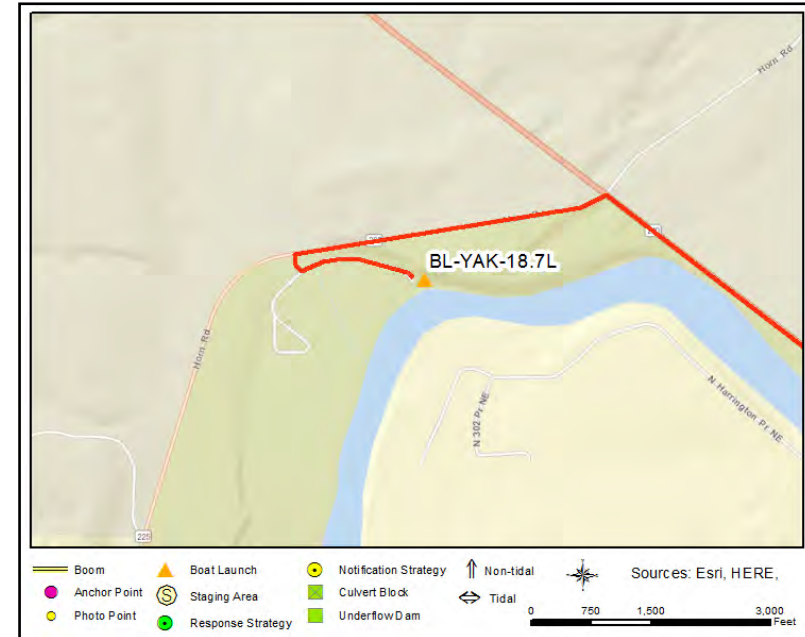
Site Contact

Benton County Parks Department

Primary Contact : Manage parks
5600A West Canal Place, A101
Kennewick, WA 99336
509-783-3118

Nearest Address

115799 N WA-225
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.

Benton City Boat Launch

BL-YAK-29.6L

Boat Launch Location

Position - Location: 46° 15.280', -119° 28.445' 46° 15' 16.8", -119° 28' 26.7" 46.25467, -119.47409 Benton City

Comments: WDFW water access site



GRP Response Strategies Served:

YAK-25.2R, YAK-28.1L, YAK-32.2L, YAK-29.8R, YAK-26.9R, YAK-32.9L, YAK-29.55L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single ramp, 4 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		50,000 sq ft
Fuel	No	
Lot Cover (Primary)	Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Portable	2
User Fee	Yes	Discover Pass
Waste Disposal	Trash Receptacle	3 cans
Water (potable)	Yes	

Benton City Boat Launch

BL-YAK-29.6L



SA-YAK-29.6L Photo: View of the Benton City boat launch

Site Contact

WDFW Region 3 South Central

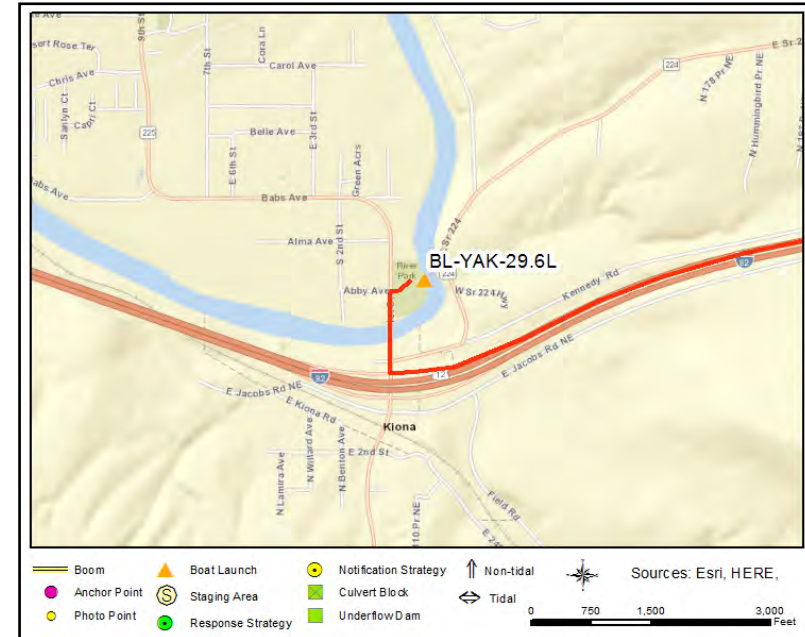
Primary Contact : Management agency for water access site

Yakima, WA 98902

509-575-2740

Nearest Address

101 Abby Ave
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.

Just Upstream of the Chandler Power Plant

BL-YAK-35.95L

Boat Launch Location

Position - Location: 46° 15.877', -119° 35.467' 46° 15' 52.6", -119° 35' 28.0" 46.26461, -119.59112 Benton City

Comments: HAND LAUNCH SITE ONLY - NO BOAT RAMP AVAILABLE



GRP Response Strategies Served:

YAK-35.95L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	Steep grade during low water
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		5,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt	100%
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	2
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	



SA-YAK-35.95L Photo: View of the dirt boat ramp just upstream of the Chandler Power Plant

Site Contact

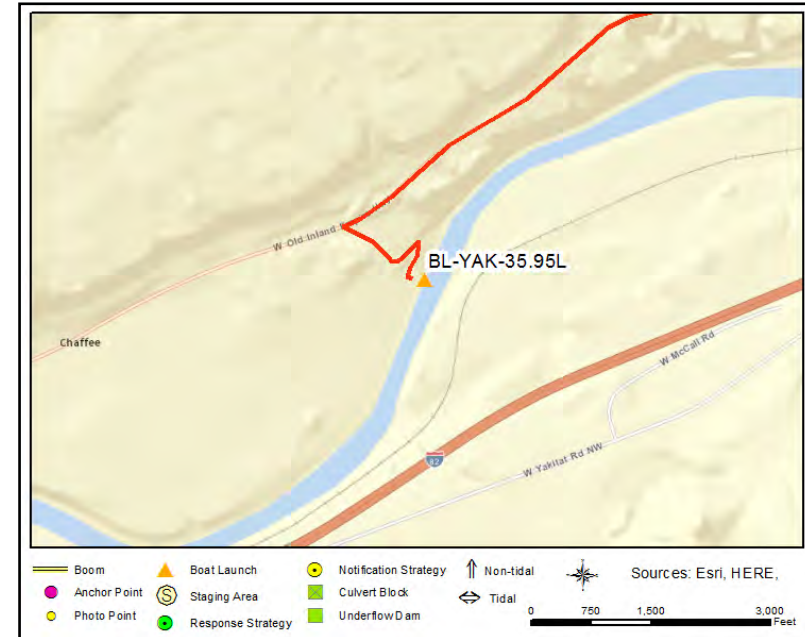
US Bureau of Reclamation

Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

47400 W Old Inland Empire Hwy
Benton City, WA 99320



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK35.95L/BL-YAK-35.95L) Upstream of Chandler Power Plant

1. Head west from West Pasco on I-82 W to Yakima
2. At exit 96 take ramp on the right to WA-224 E/ WA-225 N to W Richland/Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (4.5 miles)
10. Half a mile before 47400 W Old Inland Empire Hwy turn left at gravel drive for Chandler Power Plant. After a 90 degree turn, take the first right onto a dirt track. Go straight until the track dead ends at a T intersection; turn left and head toward the river.
11. Finish just up from the Chandler Power Plant on Old Inland Empire Hwy, Benton City, WA

Prosser Wastewater Treatment Plant Boat Launch

BL-YAK-46.5L

Boat Launch Location

Position - Location: 46° 12.750', -119° 45.935' 46° 12' 45.0", -119° 45' 56.1" 46.21250, -119.76559 Prosser

Comments: Property is gated and locked after hours. Coordinate with City of Prosser for access; call 509-786-2332. May need to cut chain (not locks after-hours if city contacts unavailable)



GRP Response Strategies Served:

YAK-42.9L, YAK-41.9L

Location Information

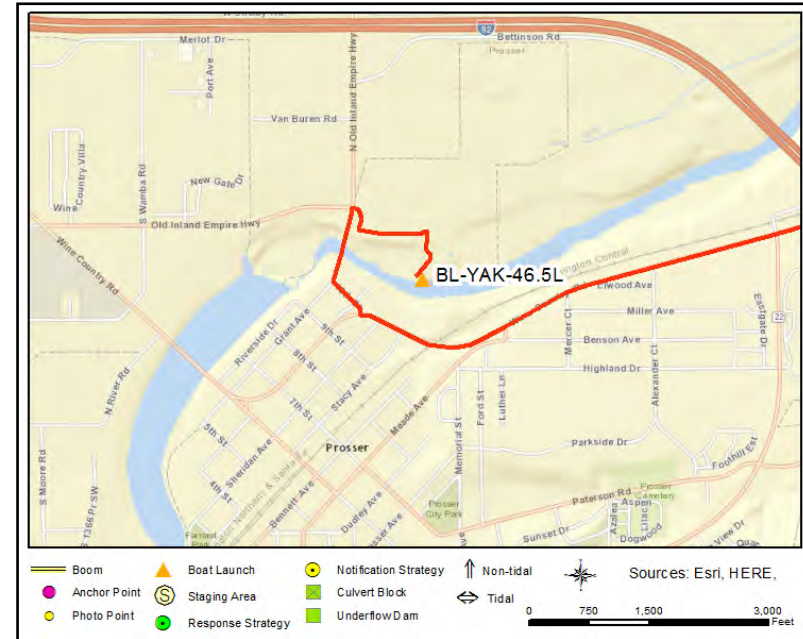
Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	Single lane, 5 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		5,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	50%
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	2
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Prosser Wastewater Treatment Plant Boat Launch

BL-YAK-46.5L



SA-YAK-46.5L Photo: View of the rivers edge at the Prosser Wastewater Treatment Facility primitive boat launch



Site Contact

City of Prosser

Primary Contact : City Dispatch (Wastewater Treatment Facility)

Prosser, WA 99350
509-786-2332

Nearest Address

999 Grande Rd
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK-46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA99350.

Riverfront Park Boat Launch

BL-YAK-47.65R

Boat Launch Location

Position - Location: 46° 12.248', -119° 46.624' 46° 12' 14.9", -119° 46' 37.5" 46.20414, -119.77707 Prosser

Comments: Additional parking close by



GRP Response Strategies Served:

YAK-47.2R, YAK-47.65R

Location Information

Asset	Type/Status	Amount/Number
Boat Ramp(s)	Concrete, Solid	Double ramps, 8 degree grade
Cell Phone Coverage	Yes	4G
Covered Spaces	Yes	Pavilion nearby
Estimated Lot Size		22,500 sq ft
Lot Cover (Primary)	Asphalt	70% asphalt, 30% gravel
Parking - Car	Marked	10
Parking - Trailer	Not Marked	10
Power	Yes	
Restroom	Restroom - Flush	Bathrooms at Farrand Park across street
User Fee	No	
Waste Disposal	Trash Receptacle	
Water (potable)	Yes	

Riverfront Park Boat Launch

BL-YAK-47.65R



SA-YAK-47.65R Photo: View of the boat launch at Riverfront Park in Prosser

Site Contact

City of Prosser

Land/Property Contact : Parks and Recreation

Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-47.65R/BL-YAK-47.65R) Riverfront Park Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.

Mabton Bridge Boat Launch

BL-YAK-59.8L

Boat Launch Location

Position - Location: 46° 13.930', -119° 59.993' 46° 13' 55.8", -119° 59' 59.6" 46.23216, -119.99989 Mabton

Comments: WDFW aquatic lands open to hunting



GRP Response Strategies Served:

YAK-61.2L, YAK-55.4R, YAK-60.45R, YAK-59.8L, YAK-55.3M, YAK-60.2R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Single lane, 4 degree grade
Cell Phone Coverage	Yes	4G
Covered Spaces	No	
Estimated Lot Size		10,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	10
Power	No	
Restroom	None	
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Mabton Bridge Boat Launch

BL-YAK-59.8L



SA-YAK-59.8L Photo: View of the Mabton Bridge primitive boat launch

Site Contact

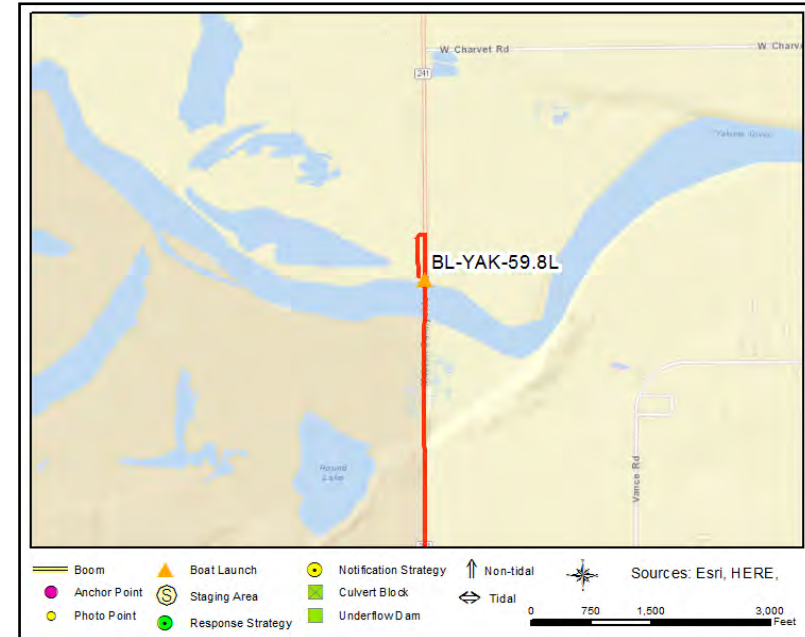
WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate 82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.

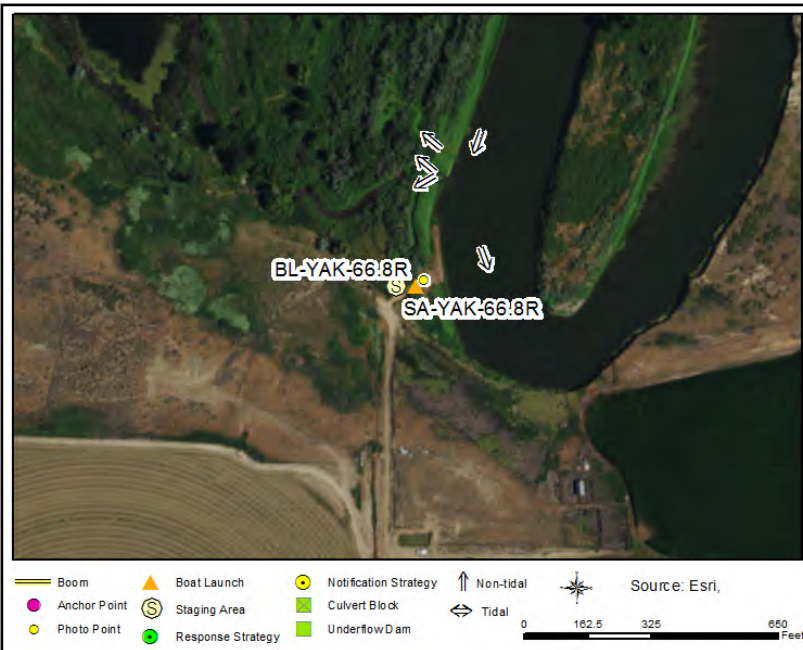
Bond Road Primitive Boat Launch

BL-YAK-66.8R

Boat Launch Location

Position - Location: 46° 14.566', -120° 5.014' 46° 14' 34.0", -120° 5' .8" 46.24277, -120.08356 Mabton

Comments: Narrow dirt track leads to the river, can launch a small boat in high water, must hand launch in low water conditions, 4 degree grade. Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.



GRP Response Strategies Served:

YAK-63.8L, YAK-69.0R, YAK-70.25L, YAK-66.85R, YAK-65.7L, YAK-65.2L, YAK-69.3R, YAK-69.5R, YAK-66.8R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Natural (Grass/Dirt)	single lane, 4 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		3,500 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt	
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	3
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Bond Road Primitive Boat Launch

BL-YAK-66.8R



SA-YAK-66.8R Photo: View of the shoreline at low water conditions, OK for hand launch BL-YAK-66.8R

Site Contact

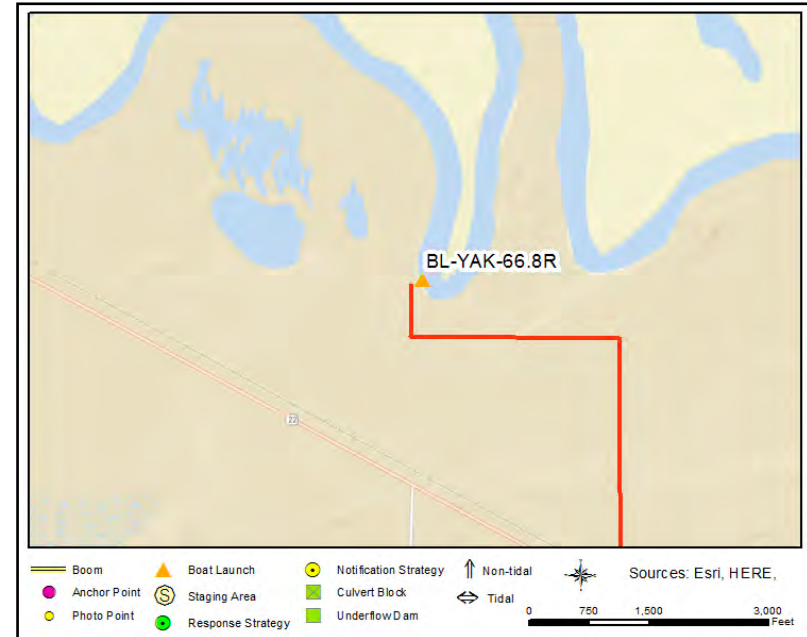
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate 82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.

Granger Public Works Boat Launch

BL-YAK-82.8L

Boat Launch Location

Position - Location: 46° 20.126', -120° 11.730' 46° 20' 7.6", -120° 11' 43.8" 46.33544, -120.19550 Granger

Comments: No access issues (not gated)



GRP Response Strategies Served:

YAK-78.0L, YAK-80.55R, YAK-84.6R, YAK-77.05R, YAK-77.5R, YAK-74.9L, YAK-84.1R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single lane, 7 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		40,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	10
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

Granger Public Works Boat Launch

BL-YAK-82.8L



SA-YAK-82.8L Photo: View of the boat launch at Granger Public Works on East A Street

Site Contact

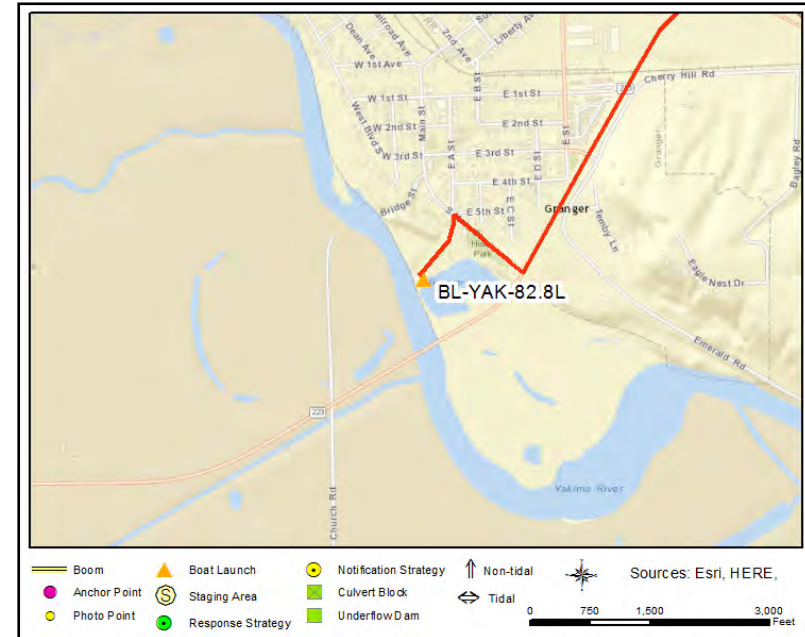
City of Granger

Land/Property Contact : Public Works

Granger, WA 98932
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK82.8L/BL-YAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left

North Meyers Road Boat Launch

BL-YAK-91.05L

Boat Launch Location

Position - Location: 46° 24.045', -120° 16.856' 46° 24' 2.7", -120° 16' 51.3" 46.40075, -120.28093 Toppenish

Comments: WDFW boat launch



GRP Response Strategies Served:

YAK-87.55L, YAK-91.7L, YAK-90.7R, YAK-92.45M, YAK-88.75L, YAK-90.95R, YAK-91.85R, YAK-93.1R, YAK-92.6L, YAK-87.0L, YAK-89.9R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Single lane, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		13,000 sq ft
Fuel	No	
Lot Cover (Primary)	Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	5
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

North Meyers Road Boat Launch

BL-YAK-91.05L



SA-YAK-91.05L Photo: View of the N Meyers Rd boat launch

Site Contact

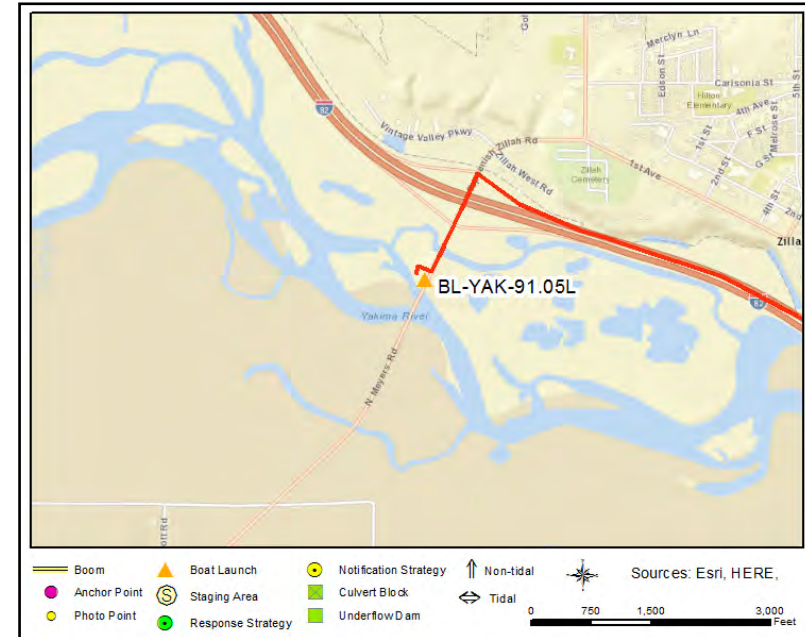
WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right

Wierman Road Primitive Boat Launch

BL-YAK-94.5R

Boat Launch Location

Position - Location: 46° 25.150', -120° 20.002' 46° 25' 9.0", -120° 20' .1" 46.41916, -120.33336 Toppenish

Comments: Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.



Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Gravel beach, 5 degree grade
Cell Phone Coverage	Yes	4 bars
Covered Spaces	No	
Estimated Lot Size		10,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	20
Parking - Trailer	Not Marked	15
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

GRP Response Strategies Served:

YAK-94.15R

Wierman Road Primitive Boat Launch

BL-YAK-94.5R



SA-YAK-94.5R Photo: View of the gravel beach boat launch off Wierman Road

Site Contact

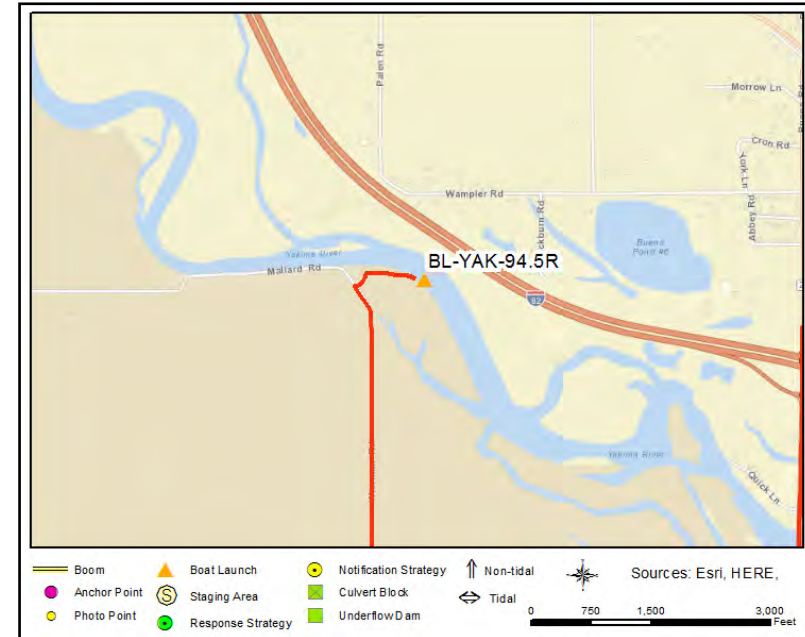
Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1402 Wierman Rd
Toppenish, WA 98948



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK94.5R/BL-YAK-94.5R) Wierman Road Primitive Boat Launch

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (0.51 miles)
7. Turn right on Wierman Rd (1.65 miles)
8. Turn right just after 1402 Wierman Rd, 98948, on the left, follow dirt track off to the right the river (0.2 miles)

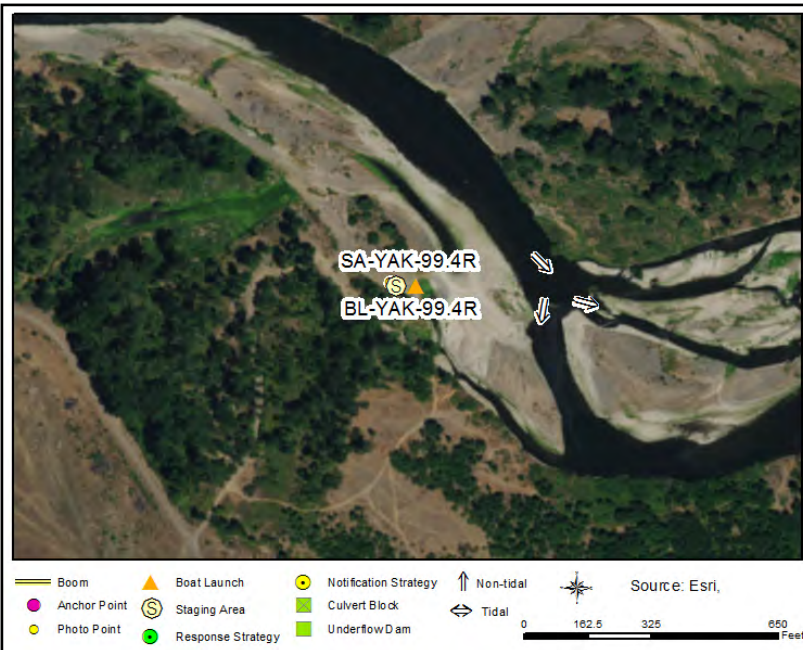
East Wapato Road Primitive Boat Launch

BL-YAK-99.4R

Boat Launch Location

Position - Location: 46° 27.488', -120° 23.065' 46° 27' 29.3", -120° 23' 3.9" 46.45813, -120.38441 Wapato

Comments: Primitive boat launch on cobblestone beach. Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.



GRP Response Strategies Served:

YAK-99.4L, YAK-97.95M, YAK-98.15L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Gravel	Beach, 3 degree grade
Cell Phone Coverage	Yes	~2 bars
Covered Spaces	No	
Estimated Lot Size		~4000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	
Parking - Car	Not Marked	5
Parking - Trailer	Not Marked	4
Power	No	
Restroom	None	
User Fee	No	Contact Yakama Nation
Waste Disposal	None	
Water (potable)	No	

East Wapato Road Primitive Boat Launch

BL-YAK-99.4R



SA-YAK-99.4R Photo: View of the cobblestone primitive boat launch at SA/BL-YAK-99.4R

Site Contact

Yakama Nation

Tribal Contact : Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

1561 E Wapato Rd
Wapato, WA 98951



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752

Mellis Frontage Road Boat Launch

BL-YAK-103.05L

Boat Launch Location

Position - Location: 46° 29.451', -120° 25.854' 46° 29' 27.1", -120° 25' 51.2" 46.49085, -120.43090 Wapato

Comments: WDFW boat launch. Access road between parking lot and ramp may be flooded during winter months but the area of road that floods is paved and should not be too deep for full size trucks to navigate safely.



GRP Response Strategies Served:

YAK-103.1R, YAK-102.2L, YAK-102.1R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	1 lane, 9 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	No	
Estimated Lot Size		30,000 sq ft
Fuel	No	
Lot Cover (Primary)	Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Portable	1
User Fee	Yes	Discover Pass
Waste Disposal	None	
Water (potable)	No	

Mellis Frontage Road Boat Launch

BL-YAK-103.05L



SA-YAK-103.05L Photo: View of the Mellis Frontage Rd boat launch

Site Contact

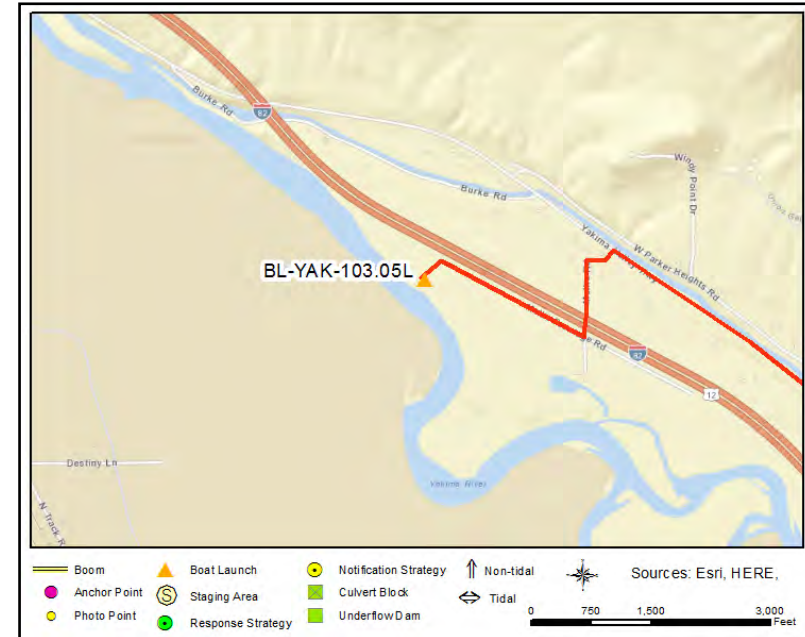
WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
3. At exit 44 take ramp on the right toward Wapato (0.4 miles)
4. Turn right on Donald Wapato Rd (0.39 miles)
5. Turn left on Yakima Valley Hwy (1.59 miles)
6. Turn left on Mellis Rd (0.3 miles), then turn right as soon as you go under the expressway.
7. Follow Mellis Frontage Rd until it ends at the WDFW boat launch parking area (0.4 miles). Use 300 Mellis Rd, Wapato, WA as an address for your navigation system.

0.2 Miles Downstream of the Wapato East Spillway

BL-YAK-106.3L

Boat Launch Location

Position - Location: 46° 31.355', -120° 28.298' 46° 31' 21.3", -120° 28' 17.9" 46.52258, -120.47163 Wapato

Comments: HAND LAUNCH SITE ONLY - NO BOAT RAMP AVAILABLE. Call and coordinate access with the Wapato Irrigation District 509-877-3155 ext 2. Site is on Bureau of Indian Affairs land.



GRP Response Strategies Served:

YAK-105.8R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	None	
Cell Phone Coverage	Yes	2 bars
Covered Spaces	No	
Estimated Lot Size		7500 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	3
Parking - Trailer	Not Marked	2
Power	No	
Restroom	None	
User Fee	No	
Waste Disposal	None	
Water (potable)	No	

0.2 Miles Downstream of the Wapato East Spillway

BL-YAK-106.3L



SA-YAK-106.3L Photo: View of the put in to hand launch at BL-YAK-106.3L

Site Contact

Wapato Irrigation District (Bureau of Indian Affairs)

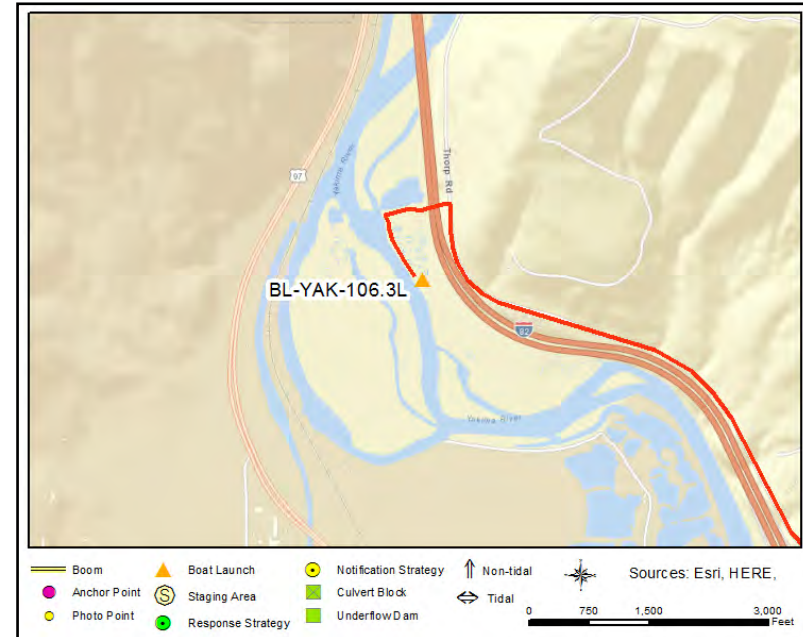
Land/Property Contact : Emergency contact
509-877-3155 ext. 3

Yakama Nation

Tribal Contact : Environmental Management Program
509-945-2939

Nearest Address

1811 Thorp Rd
Wapato, WA 98951



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK106.3L/BL-YAK-106.3L) 0.2 Miles
Downstream of the Wapato East Spillway

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (2 miles)
4. Turn left to go under I-82 through the tunnel. Go past the Wapato spillway then follow the dirt/gravel drive to the left until you reach a stream crossing (0.3 miles).
5. Finish at BL/SA-YAK-106.3L

Century Landing Boat Launch

BL-YAK-107.1L

Boat Launch Location

Position - Location: 46° 31.841', -120° 28.217' 46° 31' 50.5", -120° 28' 13.0" 46.53069, -120.47028 Wapato

Comments: Site is managed by the Yakima Greenway Foundation. No access issues (not gated)



Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	1
Cell Phone Coverage	Yes	4G
Covered Spaces	No	
Estimated Lot Size		7,500 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Not Marked	7
Parking - Trailer	Not Marked	7
Power	No	
Restroom	Restroom - Vault	1
User Fee	No	
Waste Disposal	Trash Receptacle	3
Water (potable)	No	

GRP Response Strategies Served:

YAK-106.75R, YAK-108.8L

Century Landing Boat Launch

BL-YAK-107.1L



SA-YAK-107.1L Photo: View of the Century Landing Boat Launch

Site Contact

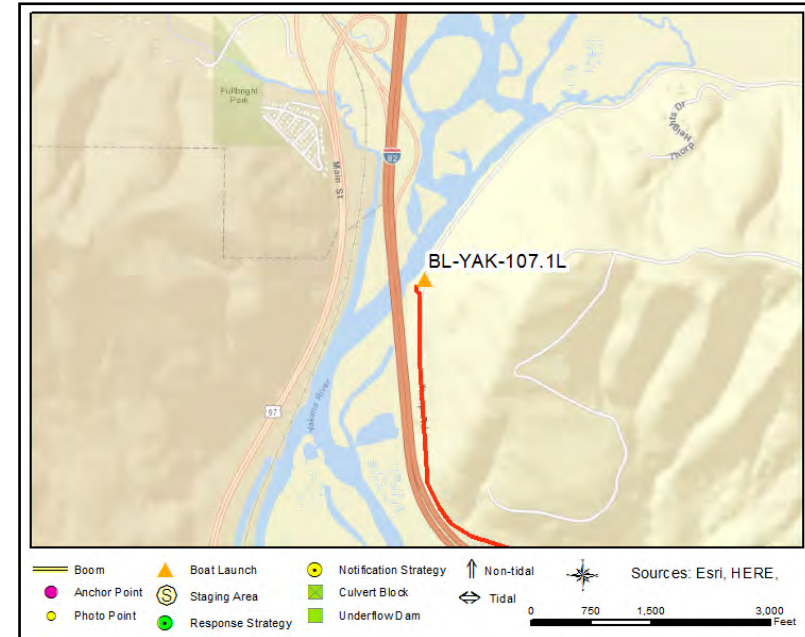
Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

82 Thorp Rd
Wapato, WA 98951



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.

Harlan Landing Park

BL-YAK-116.7L

Boat Launch Location

Position - Location: 46° 37.895', -120° 31.305' 46° 37' 53.7", -120° 31' 18.3" 46.63158, -120.52175 Yakima

Comments: No access issues (not gated), park may be busy seasonally



GRP Response Strategies Served:

NACH-0.1R, YAK-116.0L, YAK-117.5R, YAK-116.8L, YAK-114.3L, YAK-117.2R, YAK-119.1R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Plank	Single lane, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	Yes	200 sq ft
Estimated Lot Size		20,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	35
Parking - Trailer	Marked	10
Power	No	
Restroom	Restroom - Flush	2
User Fee	No	
Waste Disposal	Trash Receptacle	Dumpster
Water (potable)	No	

Harlan Landing Park

BL-YAK-116.7L



SA-YAK-116.7L Photo: View of the boat launch at Harlan Landing Park

Site Contact

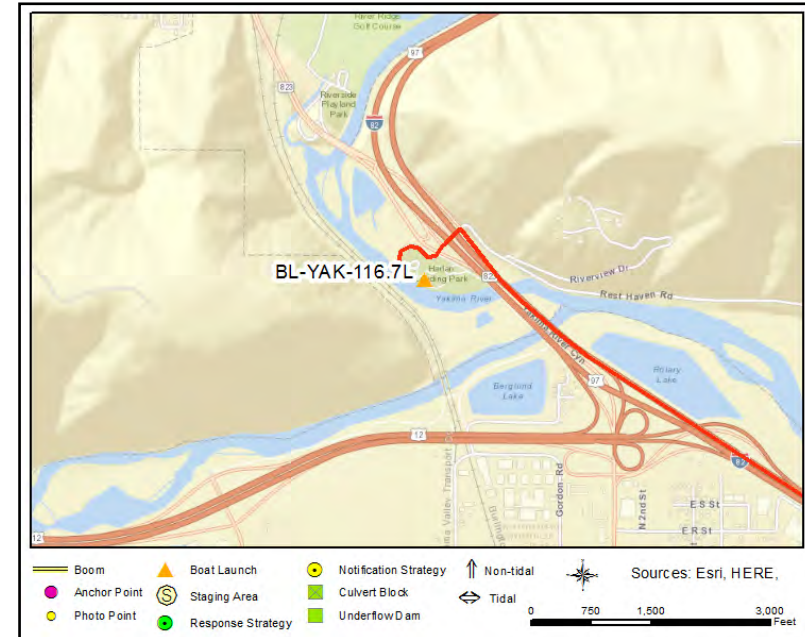
Yakima Greenway Foundation

Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

41 Rovetto Road
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK116.7L/BL-YAK-116.7L) Harlan Landing Park

1. Head west from West Richland on I-82 W (65.62 miles)
2. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
3. Turn left on Rest Haven Rd toward Selah (0.08 miles)
4. Continue on Rovetto Rd (0.13 miles)
5. Finish at 41 Rovetto Road, 98901, on the left

Roza Recreation Area

BL-YAK-129.4L

Boat Launch Location

Position - Location: 46° 45.836', -120° 27.397' 46° 45' 50.1", -120° 27' 23.8" 46.76393, -120.45662 Yakima

Comments: Park sees heavy recreational use. Coordinate with US Bureau of Land Management 509-665-2100 for access.



GRP Response Strategies Served:

YAK-129.8L, YAK-128.05R

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	2 lanes, 8 degree grade
Cell Phone Coverage	Yes	3 bars
Covered Spaces	Yes	75 sq ft
Estimated Lot Size		100,000 sq ft
Fuel	No	
Lot Cover (Primary)	Asphalt	100%
Parking - Car	Marked	100
Parking - Trailer	Marked	20
Power	No	
Restroom	Restroom - Vault	4
User Fee	Yes	\$5 day, \$15 overnight
Waste Disposal	Trash Receptacle	1 Dumpster
Water (potable)	No	



SA-YAK-129.4L Photo: Roza Recreation Area Boat Ramps

Site Contact

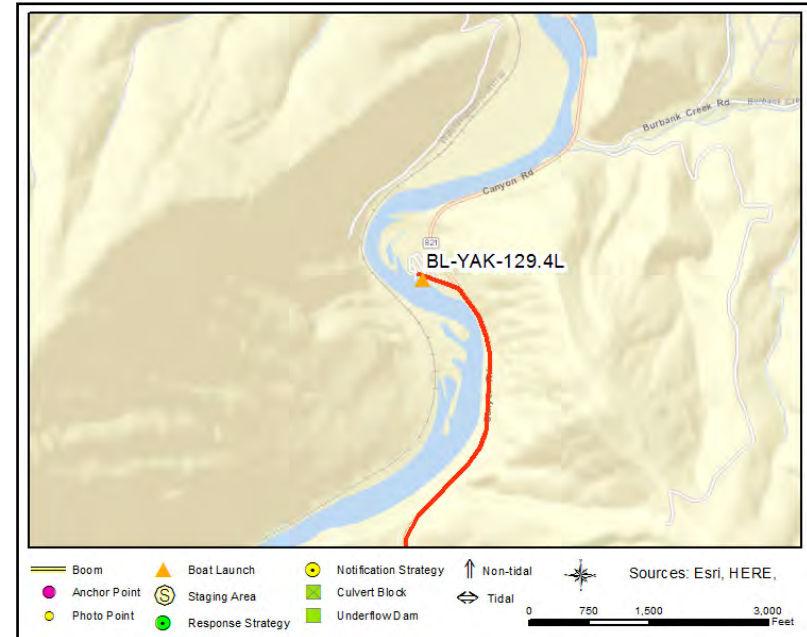
Bureau of Land Management

Primary Contact : Wenatchee Office

Wenatchee, WA 98801
509-665-2100

Nearest Address

8681 Canyon Road
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK129.4L/BL-YAK-129.4L) Roza Recreation Area

1. Head west from Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (74.99 miles)
5. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
6. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
7. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
8. Finish at Roza Recreation Area, 8681 Canyon Road, 98901, on the left.

Mile Post 8 Boat Launch

BL-YAK-130.6L

Boat Launch Location

Position - Location: 46° 46.541', -120° 27.163' 46° 46' 32.5", -120° 27' 9.8" 46.77569, -120.45272 Yakima

Comments: WDFW water access site, may see heavy use seasonally



GRP Response Strategies Served:

YAK-130.6L

Location Information

Asset	Type/Status	Amount/Number
Boat Dock(s)	No	
Boat Ramp(s)	Concrete, Solid	Single lane, 8 degree grade
Cell Phone Coverage	Yes	2 bars
Covered Spaces	No	
Estimated Lot Size		10,000 sq ft
Fuel	No	
Lot Cover (Primary)	Dirt/Gravel	100%
Parking - Car	Not Marked	10
Parking - Trailer	Not Marked	10
Power	No	
Restroom	Restroom - Vault	2
User Fee	Yes	Discover Pass required
Waste Disposal	None	
Water (potable)	No	

Mile Post 8 Boat Launch

BL-YAK-130.6L



SA-YAK-130.6L Photo: View of the boat launch at WDFW Mile Post 8 water access site

Site Contact

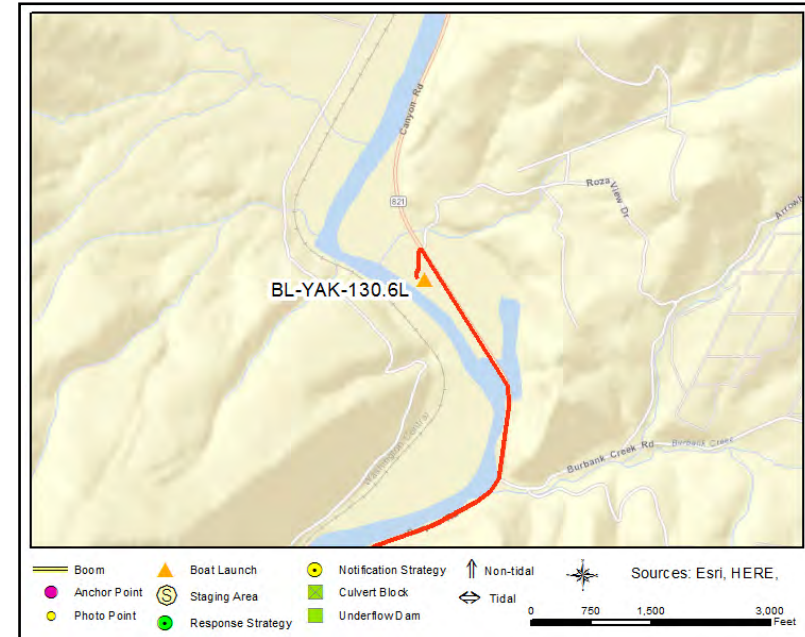
WDFW Region 3 South Central

Land/Property Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

70 Roza View Dr
Yakima, WA 98901



Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK130.6L/BL-YAK-130.6L) Mile Post 8 Boat Launch

1. Head west from West Richland on I-82 W (67.06 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (8.31 miles)
5. Turn left at Roza View Dr (0.01 miles)
6. Finish at Mile Post 8 boat launch (across the Canyon Road from 70 Roza View Dr, 98901), on the left