

Appendix K

Wetlands Delineation Analysis

Shorty's Island / Meander Reach Ecosystem Restoration

Kootenai River, Idaho

Draft Continuing Authorities Program Section 1135 Detailed Project Report and Integrated Environmental Assessment

June 2012

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WETLAND DELINEATION REPORT

FOR THE

WETLAND/WATERS OF THE U.S. DELINEATION

SHORTY'S ISLAND SECTION 1135 ECOSYSTEM RESTORATION

KOOTENAI RIVER, IDAHO

PREPARED FOR:

*The U.S. Army Corps of Engineers
and
Kootenai Tribe of Idaho*

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1. BACKGROUND

1.1 Purpose

The purpose of the proposed project is to provide the physical attributes necessary to support successful spawning and survival of early life stages of Kootenai River white sturgeon (*Acipenser transmontanus*) (will be addressed as KRWS hereafter) in the Meander Reach 1 (river mile 151.7 to 141.8) of the Kootenai River, Idaho (Appendix A, Figure 1).

The first known bottleneck for reproduction and survival of KRWS, a federally endangered species, in the Meander Reach 1 is the lack of suitable substrate for spawning, egg attachment and incubation, and embryo cover. The next 5 to 20 years are critical to the survival of this population. There may still be an adequate number of reproductive KRWS in the Kootenai River population to take advantage of suitable spawning and rearing conditions if appropriate habitat is quickly identified and restored. However, if timely action is not taken, the wild population will continue to decline and mature fish will find it increasingly difficult to find mates. Without intervention, functional extinction will occur well before the last wild fish dies, as the lack of successful reproduction will prohibit the wild population from sustaining itself.

This proposed restoration effort is a critical component of KRWS conservation and recovery. The proposed project will address the lack of suitable habitat for spawning and survival of the early life stages, which will help contribute towards the recovery of a sustainable natural population of the species. Dramatic improvement in suitable spawning habitat within the Meander Reach 1 of the Kootenai River where the fish currently cue to spawn, but suitable substrate for egg attachment and early life stage development are currently non-existent or extremely limited, is critical to the continued survival of wild KRWS.

The proposed project is intended to restore key spawning features for KRWS. In order to construct the proposed project, construction equipment will need to access and stage from the eastern shore of the Kootenai River on lands potentially hosting wetlands. The boundary of the wetland delineation study site (study site) was determined by the maximum potential construction impact area. This wetland and other waters of the U.S. delineation was undertaken to document the extent of wetlands and waters in the area of possible project impact.

1.2 Landscape Setting and Land Use

The study area is located in the broad Kootenai River Valley bounded on the west by the Selkirk Mountains, on the northeast by the Purcell Mountains and on the southeast by the Cabinet Mountains. This mountainous area of the interior Pacific Northwest is generally referred to as the maritime-influenced interior mountain west region. Natural coniferous forest communities surround the proposed project area. The Kootenai River Valley was historically a vast floodplain lowland area dominated by numerous channels, oxbow lakes, marshes, meadows, willow and cottonwood stands (Jamieson and Braatne 2001). It was a highly productive and diverse floodplain ecosystem that spanned over 55,000 acres (70,000 acres including the Canadian floodplain area). The river typically had natural levees along its banks that were 10 feet or higher than the lower floodplain (Jamieson and Braatne 2001).

Currently, the vast majority of the floodplain is in agricultural land uses. Cottonwood riparian forest exists in narrow bands along the dikes, on Shorty's Island, at the Kootenai National Wildlife Refuge, and in the system of sloughs, wetlands, and bottomlands in the greater Creston Valley Wildlife Management Area, British Columbia. Common plant species in the survey area include black cottonwood (*Populus balsamifera*), Pacific willow (*Salix lucida*), and the non-native Great Plains cottonwood (*Populus deltoides*), wood rose (*Rosa woodsii*), and herbaceous species including reed canary grass (*Phalaris arundinaceae*) which is widely established on the river banks above ordinary high water (OHW). Goldenrod (*Solidago canadensis*), and common tansy (*Tanacetum vulgare*) are also common. Agricultural fields in the survey area were planted either with canola, wheat, or potatoes.

Topography throughout most of the survey area is flat except for discrete constructed ditches and levees (in most cases, the former appeared to be created by the construction of the latter) which have slopes ranging from approximately two to three percent. Levees ring and intersect all sides of the survey area except for along the southern boundary. Prominent drainages in the survey area are only located in the southwestern corner. Other drainages, however, are located adjacent but outside of the survey area. The majority of the survey area is a flat, actively farmed parcel which gently slopes towards the southwest following existing drainage patterns towards the river. It is assumed that the drainages were originally constructed to control the high groundwater table found in the area, drawing it away from the agricultural land. It is unknown whether the agriculture lands found in the survey area are tiled and drained, although no evidence of tiling was encountered during the survey. In areas where levees and/or access roads cross over drainages, culverts are located to allow drainage to the river. Two culverts were noted in the survey area and both were found in the southwestern corner in the system of drainage canals. The one culvert connected directly to the river was gated; neither culvert appeared to be fully operational at the time of the survey.

County Road-38 (CR-38), a public right-of-way, is located along the eastern border of the survey area. Agricultural land extends beyond the northern and southern border and hills extend beyond the eastern border. Residences and various agricultural related infrastructure are found throughout the surrounding area. The site is located on 6 adjacent tax lots; RP63N01E310460A, RPN63N01E310460A, RP63N01E311510A, RP63N01E317210A, RP62N01E060140A, and RP62N01E053000A; Section 31, T63N, R1E (a tax lot map is provided in Appendix A, Figure 2).

1.3 Site Alterations

Substantial alterations to the survey area have occurred throughout the past to the present. Hydrology has been altered primarily through the construction of levees and drainage ditches. Levees have successfully constrained flood-flows to the current channel of the Kootenai River, eliminating frequent inundation of the floodplain. The regrading of agricultural lands has likely accentuated drainage patterns to concentrate and move surface water from fields to the constructed drainage canals. Most naturally occurring vegetation has been replaced by exotic species including those cultivated for food crops and other generally weedy or invasive species. The soils have generally been plowed and thus soil profiles may have been disturbed in the top 6 to 18 inches. No-till practices are reported to currently occur on the

agricultural land found in the survey area. Levee construction introduced large amounts of road-fill into the study area. Riprap was also placed in areas along the levee on the eastern bank of the Kootenai River.

The altered state of the study site makes it difficult to discern historical wetland conditions; however, it is likely that before the alterations for agriculture occurred, the survey area was a mosaic of upland and wetland floodplain interspersed with small perennial tributaries of the Kootenai River.

1.4 Precipitation Data and Analysis

Field work for this delineation survey was conducted during a summer with below average precipitation. The month of the delineation (September) as well as all three months preceding the delineation (June through August) had below average precipitation (Table 1) (NOAA-NWFSO 2011; NRCS 2003). No precipitation occurred during the three days of the wetland delineation field investigation; however, a summer storm occurred the day prior to the initiation of the survey. This storm dropped 0.02 inches of rain (no other type of precipitation was reported) on the survey site (AccuWeather.com 2011). Precipitation data from Spokane, Washington was used for this analysis because it was the closest source for NOAA-National Weather Service Forecast Office Observed Weather Report Data to the survey area.

Table 1. Precipitation summary and comparison using the closest spatially comparable WETS data and NOAA weather station data (i.e., Spokane, WA). Monthly precipitation data including the average and 30 percent range (in parenthesis), is presented. All units are in inches.

MONTH OF DELINEATION		PRECEDING MONTHS					
September		August		July		June	
2011	Normal	2011	Normal	2011	Normal	2011	Normal
0.14 ¹	1.16 (0.64-1.59) ²	0.23 ¹	1.07 (0.55-1.51) ²	0.53 ¹	1.02 (0.55-1.31) ²	0.57 ¹	1.62 (1.08-1.95) ²

¹NOAA-NWFSO 2011

²NRCS 2003

2. METHODS

The wetland delineation consisted of three consecutive days of field work; September 19, 20, and 21, 2011. The area surveyed included land found opposite Shorty's Island and to the east of but adjacent to the Kootenai River. County Road-38 constituted the eastern boundary of the survey area and existing access roads formed the northern and southern boundaries (Appendix A, Figure 5). The total area surveyed was 43.55 acres.

This wetland delineation was conducted via field investigations following the 1987 *Corps of Engineers Wetland Delineation Manual* (USACE manual) (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (regional supplement) (USACE 2010). Because initial inspection of the survey area revealed a long history of disturbance to soil, vegetation, and hydrology, Chapter Five of the regional supplement (USACE 2010) was referenced at times during the preparation of this delineation. Tetra Tech staff Jeff Barna (lead biologist) and Susan Novak conducted all field surveys.

National Wetland Inventory (NWI) maps were acquired and reviewed to determine if wetlands had been previously mapped for the survey area (USFWS 2011); no local wetland inventory (LWI) maps exist for the survey area (Appendix A, Figure 3). Soil surveys for Boundary County (NRCS 2011a) were also acquired and reviewed to determine mapped soil characteristics.

The routine methodology described in the USACE manual (USACE 1987) and regional supplement (USACE 2010) was closely followed throughout this field investigation. Additional references utilized for this delineation included the Munsell® Soil Color Charts (2009 Edition) (Munsell 2009), the Pocket Guide to Hydric Soil Field Indicators V. 6.0 (WTI 2008), *Flora of the Pacific Northwest* (Hitchcock and Cronquist 1976), *Wetland Plants of Western Washington and Northwestern Oregon* (Cooke 1997), and *Plants of the Pacific Northwest Coast* (Pojar and MacKinnon 2004). Wetland plant indicator status was provided by the U.S. Army Corps of Engineers North American Digital Flora database (Lichvar and Kartesz 2009) which is based on Reed (1988, 1993).

The entire delineation survey area was initially walked to identify locations where wetland conditions may be present. This initial survey indicated the potential for narrow, linear wetlands lining various drainages and levees adjacent to the river. During the subsequent delineation, plots were sampled within the distinctly wetland areas and within the distinctly upland areas to characterize the distinctions between them. This allows for more obvious identification of the boundary based on where the strongest wetland indicator falls out.

At each sample plot, indicators of vegetation, hydrology, and soils were documented. Tree species sample plots were circular and approximately 20 feet (6 meters) in diameter, while shrub/sapling, herbaceous, and woody vine surveys were approximately 7 feet (2 meters) in diameter. Percent cover was estimated for dominant plant species present in each stratum. All plant species were documented at each sample plot and dominants were calculated based on the percent cover in each stratum. Soil pits were dug to a standard depth of 20 inches for determination of both wetland hydrology and hydric soil indicators. If present, standing water depth or depth to saturated soil was measured and documented. Soil horizons and textures were identified for each plot and soil matrix and mottle colors, if present, were determined using Munsell® Soil Color Charts (Munsell 2009). All wetlands were mapped by global positioning system (GPS) to sub-meter accuracy with a Trimble Geo XT GPS unit. For this wetland delineation report, GPS data was post-processed and transferred to geographic information system (GIS) shapefiles, which were then overlain onto an aerial base map. This figure appears across six map pages as Figure 6 in Appendix A.

Additional methods were employed during this delineation. At a subsample of sample sites, test pits were dug and given the opportunity to fill with groundwater overnight. After taking overnight precipitation into account, the test pits that did not contain water after sitting for 24 hours or show other primary or secondary hydrology indicators, were determined to be upland. In general, these sites corresponded to a predominance of marginally hydrophytic to non-hydrophytic vegetation and also did not have hydric soil indicators.

3. RESULTS

A total of 78 sample plots were completed for this wetland delineation. The majority of the survey area was found to be non-wetland including the agricultural fields (likely prior converted cropland), access roads, and the crown, shoulders, and slopes of all levees.

Wetlands and other non-wetland waters were identified within the survey area. Two wetlands in total were delineated; Wetland 4 and Wetland 5 (three other wetlands were numbered prior to Wetland 4 and 5 but are located outside of the survey area and are not included in this report), both were found fringing the drainage canal system that hydrologically connects the agricultural land to the Kootenai River in the southwest corner of the survey area (Appendix A, Figure 6). Waters of the U.S. were found adjacent to each of the two wetlands. Copies of all wetland determination data forms are provided as Appendix B. The altered state of the survey area makes applying standard wetland classifications somewhat difficult; however, both Wetland 4 and Wetland 5 can be classified as RIVERINE: Flood Plain, Excavated Canal; *herbaceous* (NRCS 2008) or as RIVERINE: Lower Perennial, Emergent, Persistent; *saturated* (Cowardin et al. 1979). No wetlands were identified above or below the OHW mark adjacent to the Kootenai River.

3.1 Vegetation

In general, three vegetation types were documented during the wetland delineation; two non-wetland (*non-wetland cropland* and *semi-invasive upland*) and one wetland (*riverine wetland*). These vegetation types have not been formally named or recognized but were determined based on specific vegetation attributes identified in the survey area. Each of these vegetation types are discussed below:

The two non-wetland vegetation types; *non-wetland cropland* and *semi-invasive upland*, were very common throughout the survey area. *Non-wetland cropland* composed all areas of ongoing agriculture including the fields planted at the time of the survey with either canola, wheat, or potatoes, and adjacent ruderal areas. It is known that these areas are regularly sprayed with herbicides and insecticides, planted, harvested, and generally disturbed by agricultural activities. *Semi-invasive upland* was found on all levee side-slopes in the survey area, including the vegetation strip extending from the OHW mark of the Kootenai River to the levee crown, and on the slopes of drainage canals. This vegetation type consisted of a variety of disturbance-adapted species including both native and exotic species. Plants in this area were mostly herbaceous although woody shrubs and trees were also present. Common species included reed canary grass, common tansy, and goldenrod. Other species present at lower densities included great mullein (*Verbascum thapsus*), Pacific willow, black cottonwood, Woods' rose, and bull thistle (*Cirsium vulgare*).

The only wetland vegetation type identified in the survey area; *riverine wetland*, was restricted to a thin band above the water's edge in the drainage channels, found in the southwestern corner of the survey area. This was the only vegetation type present in Wetland 4 and Wetland 5 and it provided a strong hydrophytic vegetation indicator. The highly incised drainage channels with steep side-slopes restrict wetland vegetation from extending much beyond and above the surface water-edge. All plants in this area were herbaceous perennials known to be at least somewhat invasive. Dominant species in this vegetation type only included broad-leaf cattail (*Typha latifolia*) and reed canary grass. Two other species were present in lower densities; slender wood-reed (*Cinna latifolia*) and climbing nightshade (*Solanum*

dulcamara). Broad-leaf cattail, which has an indicator status of OBL (obligate wetland plant), was emergent, growing directly within standing water. Reed canary grass and slender wood-reed, both with a FACW (facultative wetland plant) indicator status, were found just upland of the water's edge. Climbing nightshade, which has a FAC (facultative plant) indicator status, was found sporadically near the wetland/upland boundary. Unlike the surrounding agricultural fields and access roads, the area of *riverine wetland* vegetation did not appear to have been disturbed in the recent past; however, it is assumed that vegetation clearing activities do occur in the drainage canals with some regularity to ensure drainage.

3.2 Soils

Soils generally had two to three horizons with the first being organic matter or root mass and the second and third, if present, having moderately-low chroma and silty loam texture. A map of the soils in the study site appears as Appendix A, Figure 4. Although the soils were undoubtedly significantly disturbed in the past through construction of levees and dikes and through agricultural activities, they appeared to not be recently disturbed. This was further substantiated in discussions with the landowner who described that only no-till agricultural practices currently occur in the survey area. The Web Soil Survey (NRCS 2011a) indicates that there are five soil types within the survey area. These include:

- ***Caboose-Wishbone complex, 15 to 35 percent slopes***: This soil type covers approximately one percent of the survey area. It is a moderately deep, well-drained soil of escarpments. Permeability is moderately high to high; available water capacity is 11.1 inches. Typically, the surface layer is (0 to 1 inches) is slightly decomposed plant material with the remaining 60 inches being silt loam. The primary components include Caboose and Wishbone, both of which are non-hydric (NRCS 2011b).
- ***Farnhamton silt loam, protected, drained, 2 to 5 percent slopes***: This soil type covers approximately 20 percent of the survey area. It is a moderately deep, moderately well drained soil of natural levees and flood plains. Permeability is moderately high to high; available water capacity is 11.4 inches. Typically, the soil profile is entirely silt loam from 0 to 60 inches. The only component is Farnhamton which is non-hydric (NRCS 2011b).
- ***Ritz-Schnoorson complex, protected, drained, 0 to 2 percent slopes***: This soil type covers approximately 5 percent of the survey area. It is a moderately deep, poorly drained soil of flood plains. Permeability is moderately high to high; available water capacity is 11.4 inches. Typically, the soil profile is silt loam from 0 to 46 inches with 46 inches to 60 inches being stratified silt loam to very fine sandy loam. The primary components include Ritz and Schnoorson, both of which are hydric (NRCS 2011b).
- ***Schnoorson silt loam, protected, drained, 0 to 2 percent slopes***: This soil type covers approximately 8 percent of the survey area. It is a moderately deep, poorly drained soil of flood plains. Permeability is moderately low to moderately high; available water capacity is 11.4 inches. Typically, the soil profile is silt loam from 0 to 31 inches with 31 inches to 65 inches being silty clay loam. The only component is Schnoorson which is hydric (NRCS 2011b).
- ***Schnoorson-DeVoignes complex, protected, drained, 0 to 2 percent slopes***: This soil type covers approximately 21 percent of the study area. It is a moderately deep, poorly drained soil of flood plains. Permeability is moderately low to moderately high; available water capacity is 11.4

inches. Typically, the soil profile is silt loam from 0 to 6 inches, silty clay loam from 6 inches to 40 inches, and silt loam from 40 inches to 65 inches. The primary components include Schnoorson and DeVoignes, both of which are hydric (NRCS 2011b).

None of these mapped soils could be definitively confirmed by the field investigations, as their characteristics did not entirely match what was observed in the field. These discrepancies are likely due to the significant past soil disturbances that have occurred in the area. When present, hydric soil characteristics included moderately developed structure, mottling, and low chroma soil colors. The indicator universal to these sample plots was Depleted Matrix (F3); Hydrogen Sulfide (A4) was also common.

3.3 Hydrology

Hydrology provided a definitive indicator of wetland in the survey area; only sample plots determined to be wetland had hydrologic indicators. Common primary hydrologic indicators, when present, included soil saturation to near the surface, standing water in or near the sample plot, and hydrogen sulfide odor. Secondary indicators were also encountered and included dry-season water table and geomorphic position. In general, the soils in the survey area appeared to be well drained, allowing all precipitation that had fallen the day prior to the start of the survey to be completely absorbed within 24 hours. No evidence of hydrology was found in sample plots that were determined to be non-wetland.

With the exception of the constructed drainages and levees, the majority of the survey area was relatively flat, actively cultivated, agricultural land which gently sloped towards the southwest and the drainage canals connected to the Kootenai River. Water from the agricultural land and the hills beyond the survey area to the east, is presumed to drain towards this area as groundwater. Sources of water in the survey area appear to be restricted to precipitation and possibly irrigation, although no sign of irrigation was obvious in the survey area at the time of the survey. The drainage canals appear to have been constructed at an elevation comparable to that of the current water elevation of the river and approximately 15 feet below the soil surface elevation of the surrounding land. This position presumably facilitates the passive draining of the agricultural fields. The presences of gated culvert connecting the inlet from the river to the drainage canals, however, likely causes the groundwater elevation to be somewhat perched above the water elevation of the river (except during floods when it would be lower than the river elevation).

3.4 Sample Plot Characteristics

The three vegetation types documented during this wetland delineation; *non-wetland cropland*, *semi-invasive upland*, and *riverine wetland*, dictate the three generalized types of sample plots observed during this survey. Each type of sample plots is discussed below.

3.4.1 Non-Wetland Cropland Sample Plots

Non-wetland cropland sample plots were all non-wetland. The location of these sample plots in active and highly managed agricultural fields precluded all characteristics to be uniform and rather simple across like areas. Each *non-wetland cropland* sample plot was solely dominated by canola, wheat, or potato plants; virtually no other plant species were present. Soil was silty loam with a uniform color of 10YR 5/3 from

the surface to a depth of 20 inches. No hydrology was observed. Sample plot SI-14 is a type example of a *non-wetland cropland* sample plot (Appendix B).

3.4.2 *Semi-Invasive Upland Sample Plots*

Semi-invasive upland sample plots were all non-wetland. Their location on levee side-slopes subjected them to regular maintenance including the clearing of vegetation, introduced and/or highly disturbed soils, and highly drained conditions. These characteristics have prevented wetland conditions from being formed. Plants at *semi-invasive upland* sample plots were usually invasive exotic species with FAC or drier indicator status. Soils were typically composed of roots or organic matter in the first 3 inches, with the remainder of the sample to a depth of 20 inches, having a uniform color of 10YR 4/2 or 5/2 and a texture of silt loam and cobble. No hydrology was observed. All paired sample plots to the wetland sample plots found in Wetland 4 and Wetland 5 were *semi-invasive upland* sample plots. Sample plot SI-33 is a type example of a *non-wetland cropland* sample plot (Appendix B).

3.4.3 *Riverine Wetland Sample Plots*

Riverine wetland sample plots all had positive indicators for hydrophytic vegetation, hydric soil, and wetland hydrology, and were determined to all be wetland – all wetland sample plots in Wetland 4 and Wetland 5 were *riverine wetland* sample plots. The location of these sample plots in the drainage canals allowed them to develop clear wetland characteristics. Vegetation in these sample plots were moderate or strongly hydric and appeared to be largely undisturbed at the time of the survey. Evidence of wetland hydrology was ubiquitous with standing water, water table, soil saturation, and hydrogen sulfide odor all being common. The first few inches of soil were roots followed by moderately hydric soil indicators such as a silt loam texture and a color of 10YR 4/1 with 40% redox features of 10YR 3/6 down to a depth of 20 inches. Sample plot SI-46 is a type example of a *riverine wetland* sample plot; other *riverine wetland* sample plots include SI-48, SI-75, SI-77, SI-79, SI-80, and SI-83 (Appendix B).

3.5 **Wetland Boundary Determination**

Wetland boundaries were identified when indicators for all wetland parameters were lost in the survey plots. The wetland boundaries were delineated primarily by hydrology indicators and topography and secondarily by vegetation and soil indicators. Soil pits were dug and surface features were cataloged to determine where hydrology indicators and other wetland indicators disappeared within the survey area. All sample plots taken on agricultural land, levees, and steep slopes in the upper portion of the drainage canals were non-wetland. No wetlands were identified above or below the OHW mark adjacent to the Kootenai River.

For the two wetlands delineated during the survey, Wetland 4 and Wetland 5, hydrology provided the most robust indicator to delineate wetland from non-wetland. All wetland sample plots had hydrology indicators including saturated soils and shallow water table within 12 inches of the soil surface. In some cases, surface water and other primary indicators as well as secondary indicators were also present. Sample plots that were determined to have strong hydric soil indicators and were delineated to be within a wetland had low chroma matrices and extensive mottling as well as hydrophytic vegetation. Plots that were delineated to fall outside of wetland boundaries had either no or marginal hydrophytic vegetation as well as no hydrology or hydric soil indicators.

Wetlands and wetland types identified in the survey area are summarized in Table 2. A total of 0.114 acres of wetland and 1.561 acres of other waters of the U.S. were identified in the survey area. The altered state of the survey area makes applying standard wetland classifications somewhat difficult; however, both Wetland 4 and Wetland 5 can be classified as RIVERINE: Flood Plain, Excavated Canal; *herbaceous* (NRCS 2008) or as RIVERINE: Lower Perennial, Emergent, Persistent; *saturated* (Cowardin et al. 1979).

Table 2. Acreages of wetlands and other waters of the U.S. found in the survey area.

Wetland/Waters Type	Wetland 4	Wetland 5	Entire Survey Area
Wetland Acreages	0.039	0.075	0.114
Other Waters Acreages	0.105	0.139	1.561

4. CONCLUSIONS

According to the 1987 Manual and implementing guidance, there must be positive indicators of each parameter (hydrophytic vegetation, hydrology, and hydric soils) present to make a wetland determination (USACE 1987). All wetland sample plots had clear wetland hydrology, hydrophytic vegetation, and hydric soils indicators. Hydrology indicators, which provided the best means to delineate wetland from non-wetland in the survey area, were found at all survey plots determined to be within a wetland. Vegetation indicators were also clearly identified. All soils in wetland sample plots had hydric indicators.

The highly altered nature of the survey area has caused the wetlands identified by this survey to be of marginal to low quality. Artificially controlled hydrology, mechanical and chemical maintenance of vegetation, substantial past topographical manipulations, small size, and reduced connectivity to the Kootenai River all result in Wetlands 4 and 5 to have poor function in the existing ecosystem.

5. DISCLAIMER

This report documents the investigation, best professional judgment, and conclusions of the investigators. It should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been approved in writing by the reviewing agency/agencies.

APPENDIX A: MAPS

Figure 1: Location Map

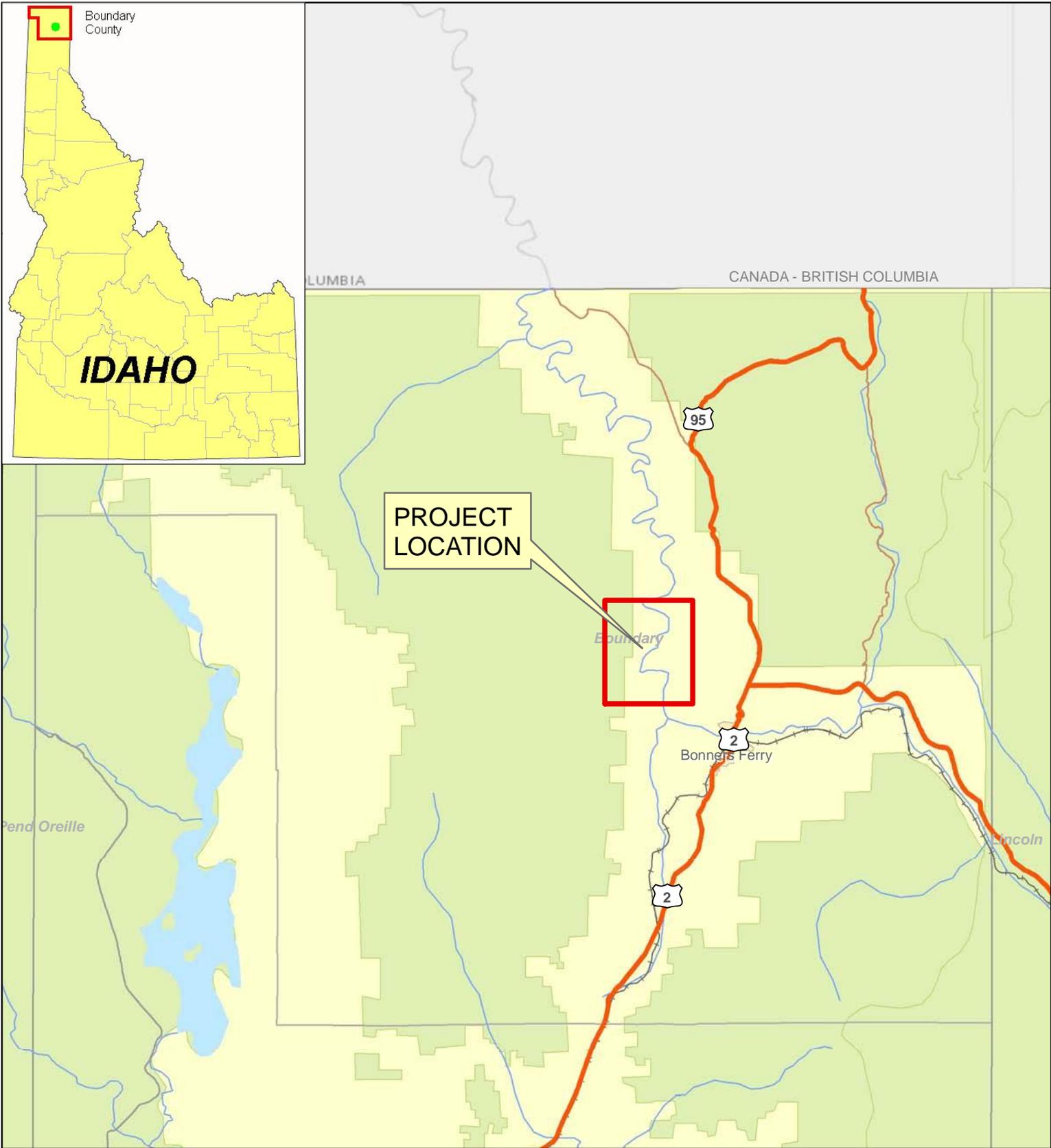
Figure 2: Tax Lot Map

Figure 3: NWI Map / LWI Map

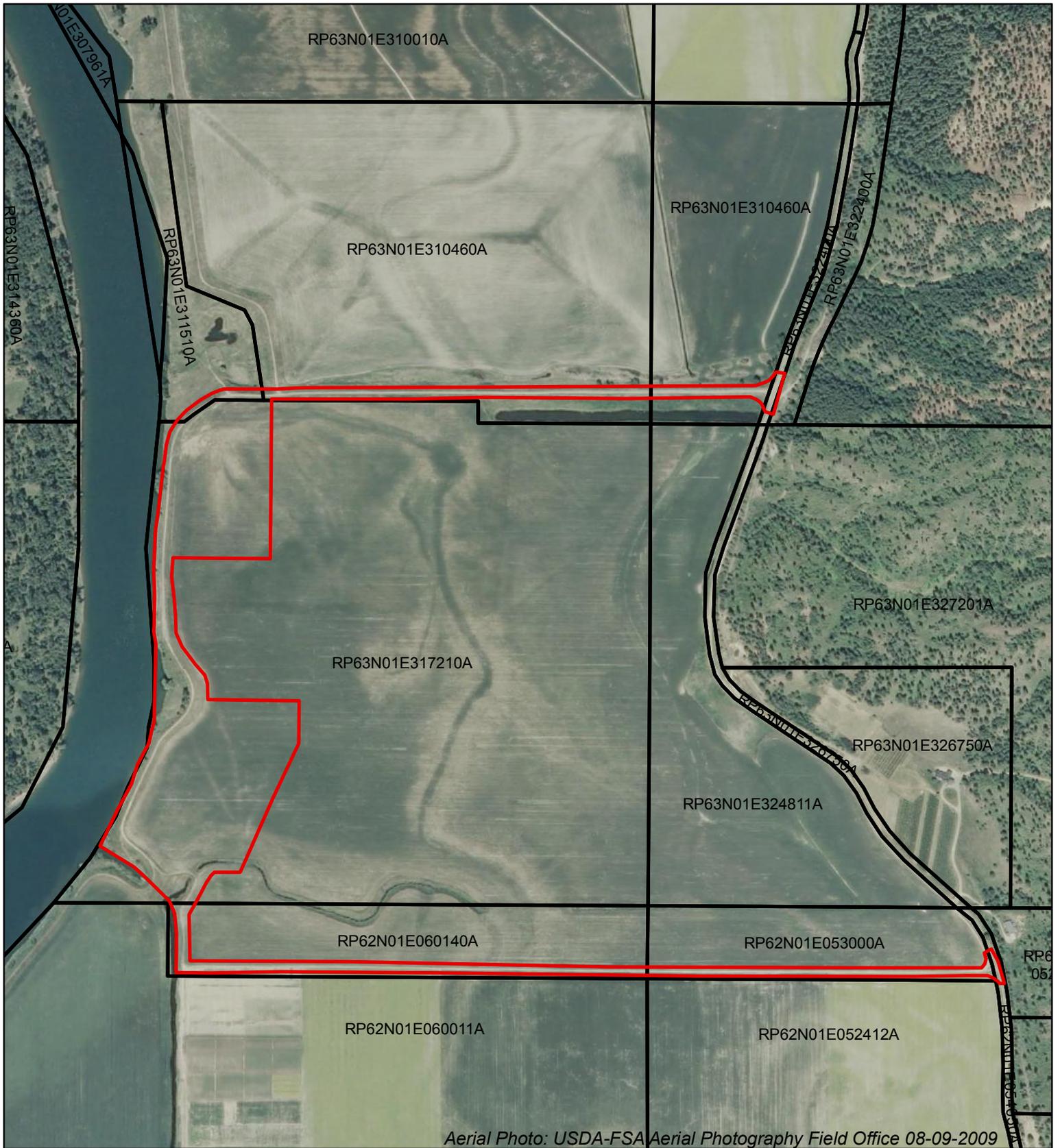
Figure 4: County Soil Survey / NRCS Map / Hydric ratings for the study site

Figure 5: Current Aerial Photograph

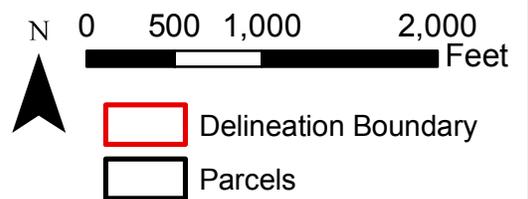
Figure 6: Wetland Delineation Map



**SHORTYS ISLAND
WETLAND DELINEATION
PROJECT LOCATION:
BONNERS FERRY
BOUNDARY COUNTY, ID
APPENDIX A, FIGURE 1**



**SHORTYS ISLAND
WETLAND DELINEATION
TAX LOT MAP
BONNERS FERRY
BOUNDARY COUNTY, ID
APPENDIX A, FIGURE 2**





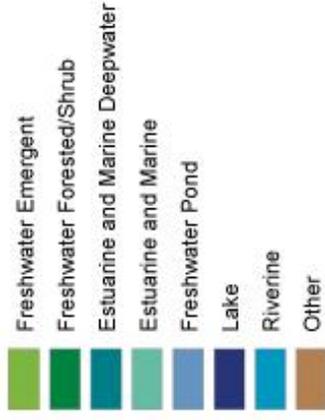
U.S. Fish and Wildlife Service

National Wetlands Inventory

Shortys Island

Sep 30, 2011

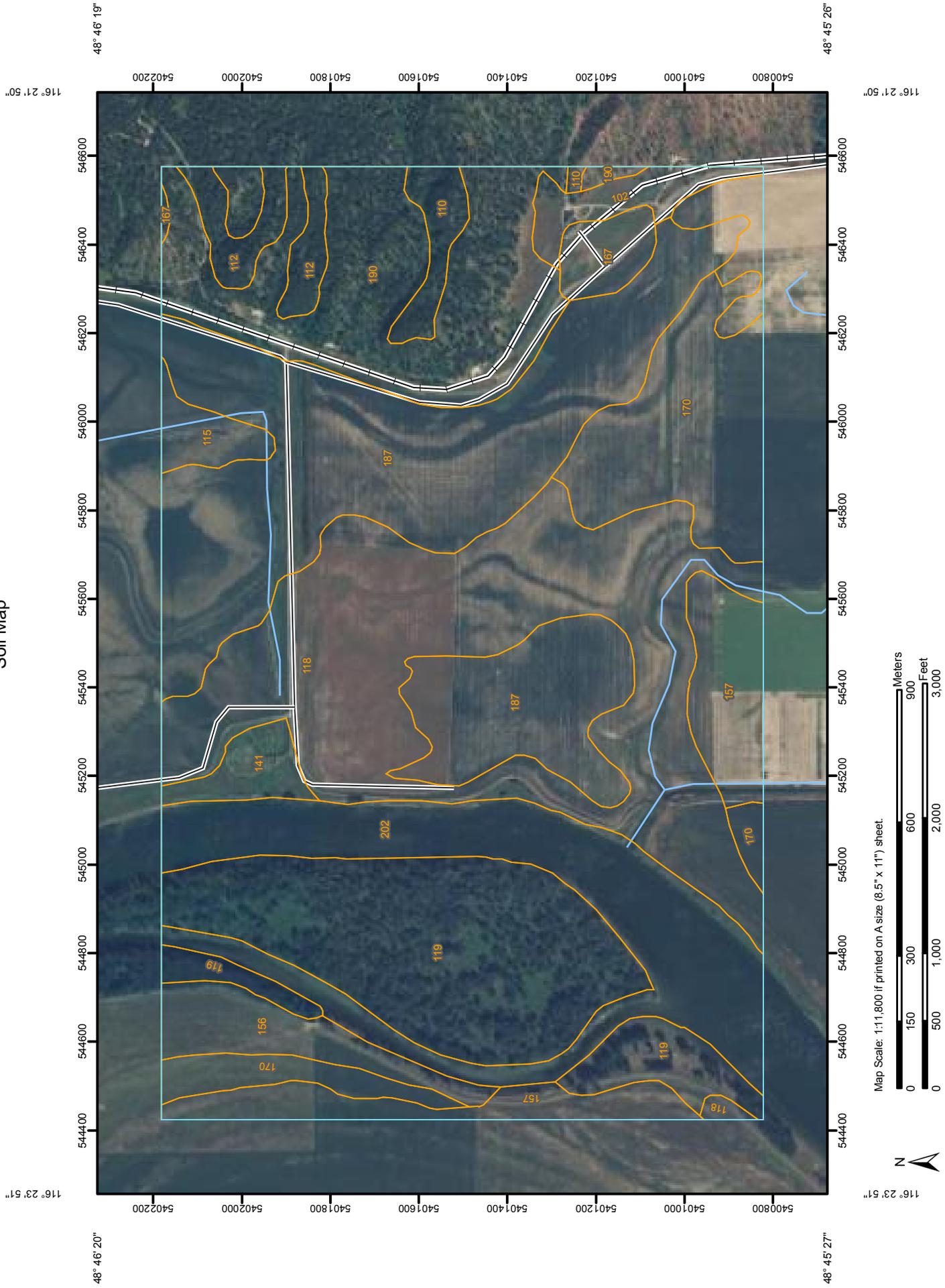
Wetlands



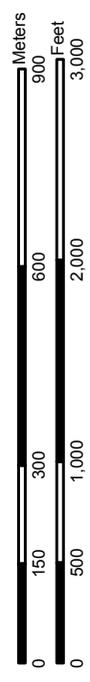
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

SHORTYS ISLAND
WETLAND DELINEATION
NWI MAP
BONNERS FERRY, BOUNDARY COUNTY, ID
APPENDIX A, FIGURE 3

Custom Soil Resource Report Soil Map



Map Scale: 1:11,800 if printed on A size (8.5" x 11") sheet.



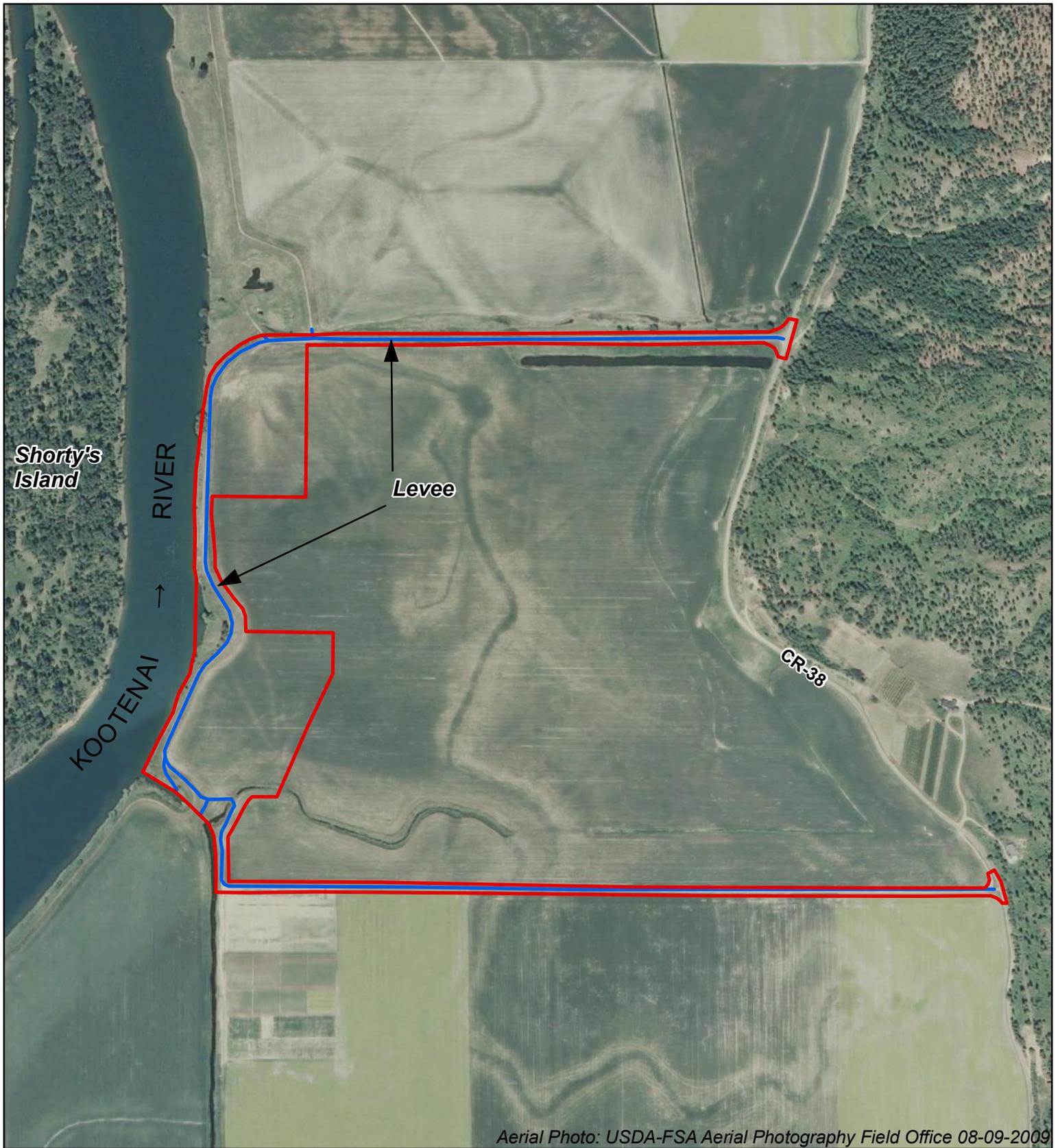
Map Unit Legend

Boundary County Area, Idaho (ID601)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
102	Caboose-Wishbone complex, 15 to 35 percent slopes	10.3	1.4%
110	Crash silt loam, 35 to 75 percent slopes	8.6	1.2%
112	Crash-Artnoc complex, 35 to 75 percent slopes	13.2	1.8%
115	DeVoignes mucky silt loam, protected, drained, 0 to 1 percent slopes	7.6	1.0%
118	Farnhamton silt loam, protected, drained, 2 to 5 percent slopes	147.4	20.4%
119	Farnhamton silt loam, unprotected, undrained, 0 to 4 percent slopes	99.8	13.8%
141	Farnhamton silt loam, unprotected, drained, 0 to 4 percent slopes	8.8	1.2%
156	Ritz silt loam, protected, drained, 0 to 2 percent slopes	18.3	2.5%
157	Ritz-Schnoorson complex, protected, drained, 0 to 2 percent slopes	36.7	5.1%
167	Rubson ashy silt loam, 8 to 15 percent slopes	8.8	1.2%
170	Schnoorson silt loam, protected, drained, 0 to 2 percent slopes	57.3	7.9%
187	Schnoorson-DeVoignes complex, protected, drained, 0 to 2 percent slopes	151.4	21.0%
190	Wishbone-Caboose complex, 35 to 75 percent slopes	78.2	10.8%
202	Water	76.0	10.5%
Totals for Area of Interest		722.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.



Aerial Photo: USDA-FSA Aerial Photography Field Office 08-09-2009

**SHORTYS ISLAND
WETLAND DELINEATION
AERIAL MAP
BONNERS FERRY
BOUNDARY COUNTY, ID
APPENDIX A, FIGURE 5**

N

0 500 1,000 2,000 Feet

Delineation Boundary

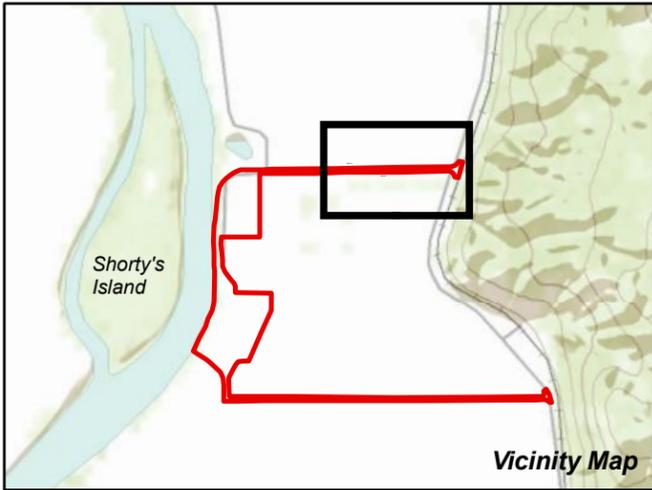
Access Road

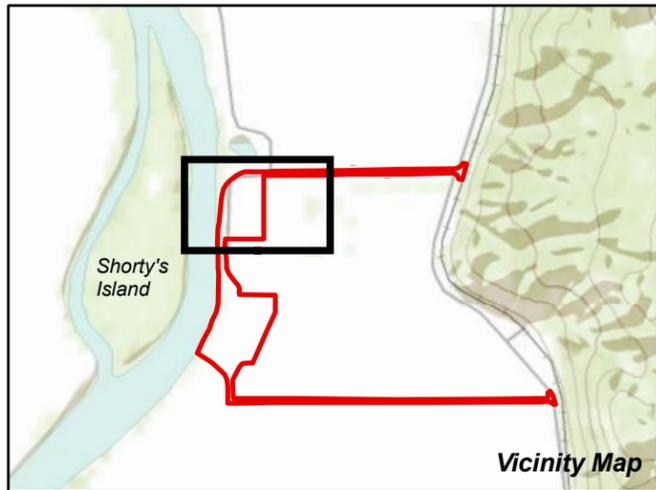
SHORTYS ISLAND WETLAND DELINEATION MAP

BONNERS FERRY

BOUNDARY COUNTY, ID

APPENDIX A, FIGURE 6

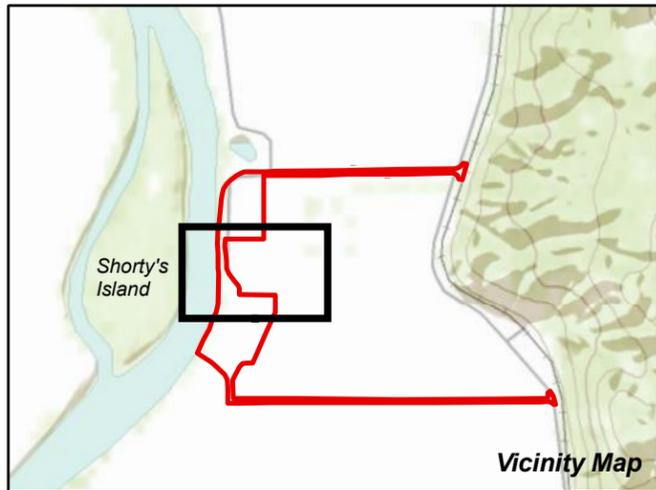




Legend

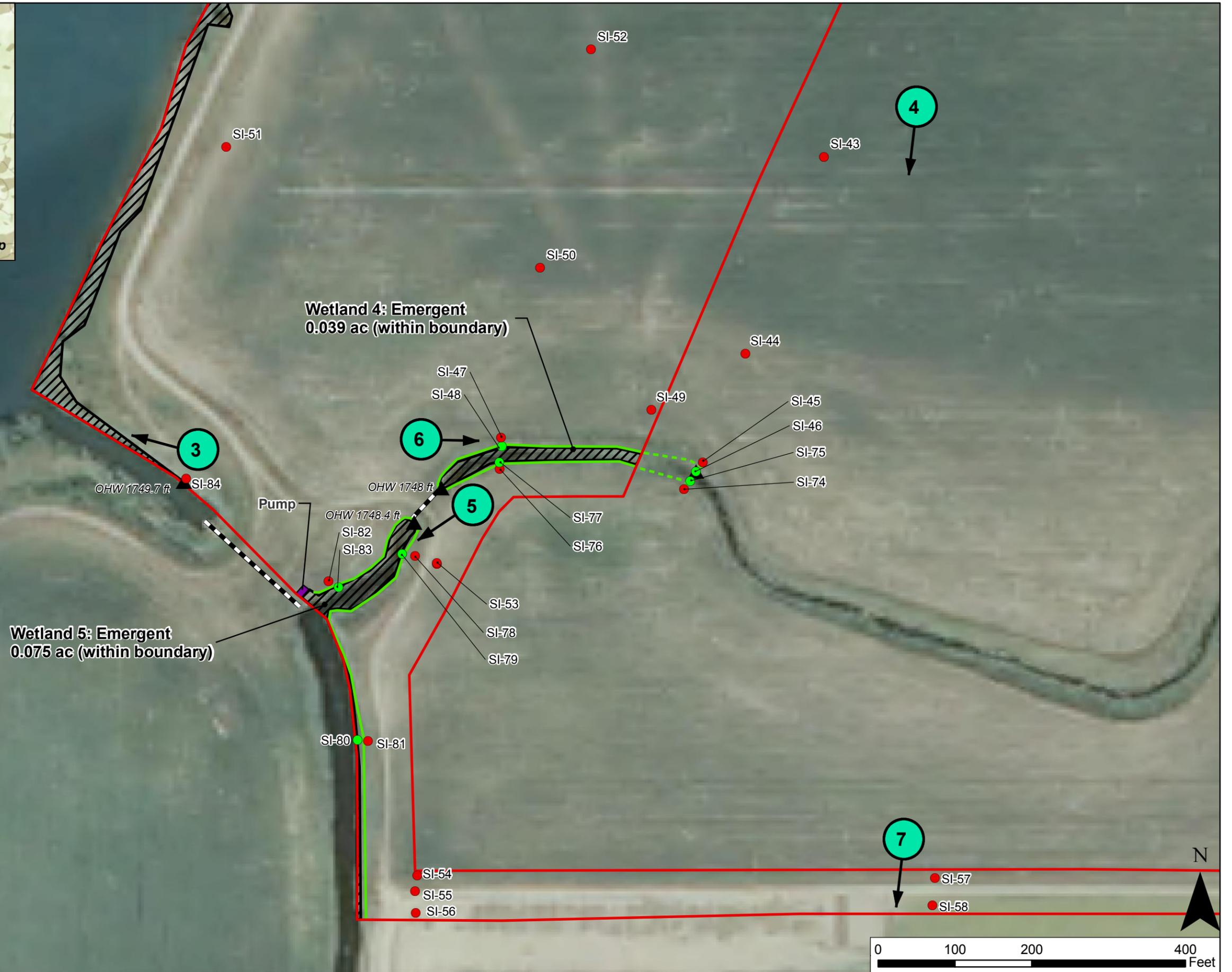
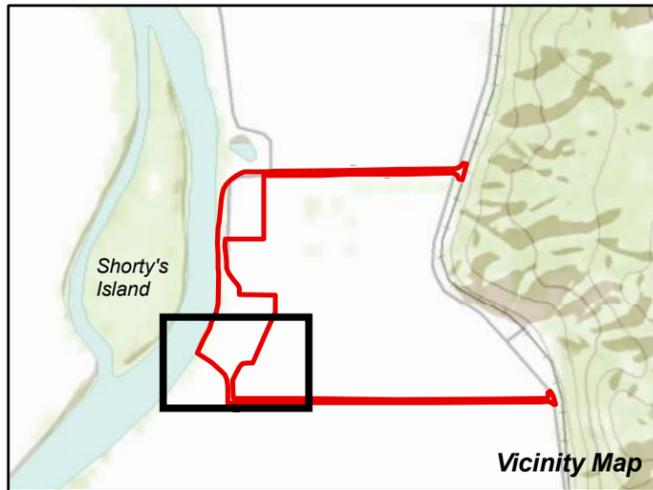
- Upland Plot
- ▲ OHW
- ▨ OHW Polygon
- Delineation Boundary
- Photo Point





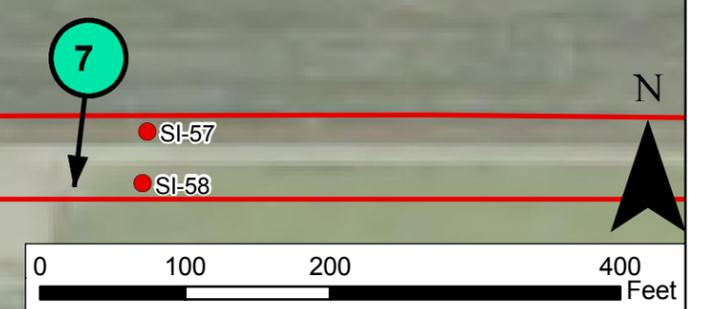
Legend

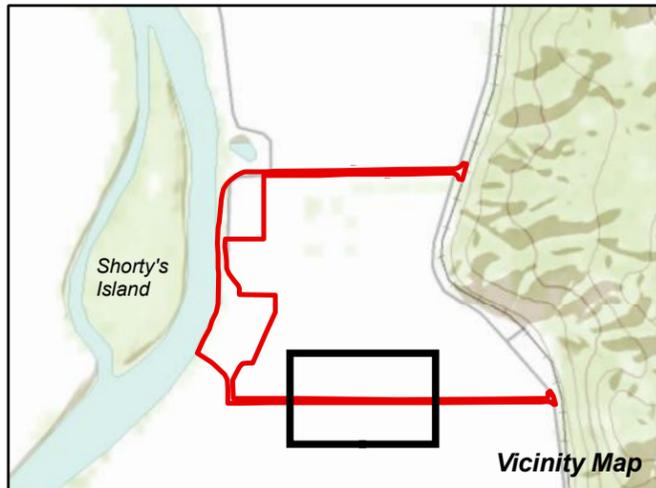
- Upland Plot
- ▲ OHW
- ▨ OHW Polygon
- Delineation Boundary
- Photo Point



Legend

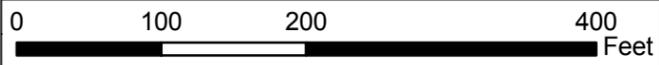
- Wetland Plot
- Upland Plot
- ▲ OHW
- OHW Polygon
- Wetlands
- culvert
- Pump Platform
- Delineation Boundary
- Photo Point

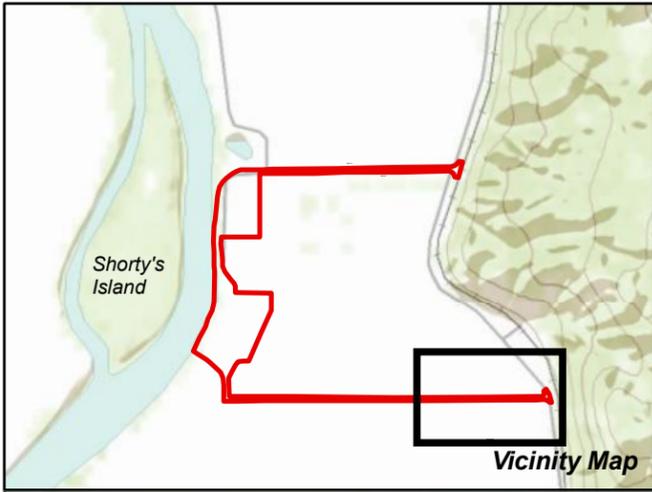




Legend

- Upland Plot
- Delineation Boundary





APPENDIX B: DATA FORMS

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-1
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): basin Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken at the toe of the levee in area between levee and ag field (near ponded water) – plot area not planted. Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	Plot size: <input type="text" value="3m"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Phalaris arundinacea</u>		100	x	FACW		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						

Remarks: Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-3
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: In middle of access road (road on levee composed of road fill), no plants in plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text"/> (A) Total Number of Dominant Species Across All Strata: <input type="text"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text"/> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>100</u>					

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants¹
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
--	------------------------------	--

Remarks: No plants in plot

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-4
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): basin Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken at the toe of the levee in area between levee and ag field – plot area not planted. Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	Plot size: <input type="text" value="3m"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Phalaris arundinacea</u>		100	x	FACW		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						
					Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
					Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

SOIL

Sampling Point: SI-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	Roots						Roots	
6-20	10YR 4/3	100					Silt loam	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-5
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): basin Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken at the toe of the levee in area between levee and ag field (near ponded water) – plot area not planted. Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
(Plot size: <input type="checkbox"/>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> 1 (A) Total Number of Dominant Species Across All Strata: <input type="checkbox"/> 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> 100 (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="checkbox"/> x 1 = <input type="checkbox"/> FACW species <input type="checkbox"/> x 2 = <input type="checkbox"/> FAC species <input type="checkbox"/> x 3 = <input type="checkbox"/> FACU species <input type="checkbox"/> x 4 = <input type="checkbox"/> UPL species <input type="checkbox"/> x 5 = <input type="checkbox"/> Column Totals: <input type="checkbox"/> (A) <input type="checkbox"/> (B) Prevalence Index = B/A = <input type="checkbox"/>
Sapling/Shrub Stratum				
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(Plot size: <u>3m</u>)				
1. <u>Phalaris arundinacea</u>	100	x	FACW	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
100 = Total Cover				
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum	_____			

Remarks: Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-7
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): basin Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken at the toe of the levee in area between levee and ag field – plot area not planted. Only species are very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	Plot size: <input type="text" value="3m"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Phalaris arundinacea</u>		90	x	FACW		
2. <u>Verbascum thapsus</u>		10		FACU		
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - 5 - Wetland Non-Vascular Plants¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks: Only species are very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-8
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Basin shoulder Slope (%): 3
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken at the toe of the levee in area between levee and ag field (near ponded water) – plot area not planted. Species are very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
(Plot size: <input type="checkbox"/>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> 1 (A) Total Number of Dominant Species Across All Strata: <input type="checkbox"/> 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> 100 (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="checkbox"/> x 1 = <input type="checkbox"/> FACW species <input type="checkbox"/> x 2 = <input type="checkbox"/> FAC species <input type="checkbox"/> x 3 = <input type="checkbox"/> FACU species <input type="checkbox"/> x 4 = <input type="checkbox"/> UPL species <input type="checkbox"/> x 5 = <input type="checkbox"/> Column Totals: <input type="checkbox"/> (A) <input type="checkbox"/> (B) Prevalence Index = B/A = <input type="checkbox"/>
Sapling/Shrub Stratum				
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(Plot size: <input type="checkbox"/>)				
1. <u>Phalaris arundinacea</u>	90	x	FACW	
2. <u>Cinna latifolia</u>	10		FACW	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
_____ = Total Cover				
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				

Remarks: Species are very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-12
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Remarks: Taken at the toe of the levee in area between levee and ag field – plot area not planted. Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Phalaris arundinacea</u>	100	x	FACW	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

Remarks: Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

SOIL

Sampling Point: SI-12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	Roots						Roots	
7-14	10YR 4/2	100					Silt loam	
15-20	10YR 4/2	70	10yr4/6	30	RM	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic
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Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-14
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
(Plot size: <input type="text"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A)
1. _____				Total Number of Dominant Species Across All Strata:	<input type="text" value="1"/> (B)
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A/B)
3. _____					
4. _____					
	_____ = Total Cover				
Sapling/Shrub Stratum				Prevalence Index worksheet:	
(Plot size: <input type="text"/>)				Total % Cover of:	Multiply by:
1. _____				OBL species <input type="text"/>	x 1 = <input type="text"/>
2. _____				FACW species <input type="text"/>	x 2 = <input type="text"/>
3. _____				FAC species <input type="text"/>	x 3 = <input type="text"/>
4. _____				FACU species <input type="text"/>	x 4 = <input type="text"/>
5. _____				UPL species <input type="text"/>	x 5 = <input type="text"/>
	_____ = Total Cover			Column Totals: <input type="text"/> (A)	<input type="text"/> (B)
				Prevalence Index = B/A = <input type="text"/>	
Herb Stratum				Hydrophytic Vegetation Indicators:	
(Plot size: <u>3m</u>)				<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
1. <u>Brassica sp. (canola)</u>	70	x	FACU	<input type="checkbox"/> 2 - Dominance Test is >50%	
2. _____				<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
3. _____				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____				<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹	
5. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
6. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
	70 = Total Cover				
Woody Vine Stratum				Hydrophytic Vegetation Present?	
(Plot size: <input type="text"/>)				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
1. _____					
2. _____					
	_____ = Total Cover				
% Bare Ground in Herb Stratum	<u>30</u>				

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-15
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): slope Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Remarks: Taken at the toe of the levee in area between levee and ag field – plot area not planted. Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Phalaris arundinacea</u>		100	x	FACW		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						

Remarks: Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-16
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	Plot size: <input type="text"/>				
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	Plot size: <input type="text" value="3m"/>				
1. <u>Brassica sp. (canola)</u>		70	x	FACU	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
70 = Total Cover					
Woody Vine Stratum	Plot size: <input type="text"/>				
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 19 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-19
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken at the toe of the levee in area between levee and ag field – plot area not planted. Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
(Plot size: <input type="checkbox"/>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> 1 (A) Total Number of Dominant Species Across All Strata: <input type="checkbox"/> 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> 100 (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
	_____ = Total Cover			Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="checkbox"/> x 1 = <input type="checkbox"/> FACW species <input type="checkbox"/> x 2 = <input type="checkbox"/> FAC species <input type="checkbox"/> x 3 = <input type="checkbox"/> FACU species <input type="checkbox"/> x 4 = <input type="checkbox"/> UPL species <input type="checkbox"/> x 5 = <input type="checkbox"/> Column Totals: <input type="checkbox"/> (A) <input type="checkbox"/> (B) Prevalence Index = B/A = <input type="checkbox"/>
Sapling/Shrub Stratum				
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
	_____ = Total Cover			
Herb Stratum				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(Plot size: <u>3m</u>)				
1. <u>Phalaris arundinacea</u>	100	x	FACW	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	100 = Total Cover			
Woody Vine Stratum				
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
	_____ = Total Cover			
% Bare Ground in Herb Stratum _____				

Remarks: Only species is very weedy – likely a false positive given the preponderance of non-wetland indicators at this sample plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-20
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-21
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-22
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
(Plot size: <input type="text"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A)		
1. _____				Total Number of Dominant Species Across All Strata:	<input type="text" value="1"/> (B)		
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A/B)		
3. _____							
4. _____							
_____ = Total Cover							
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:			
(Plot size: <input type="text"/>)						Total % Cover of:	Multiply by:
1. _____				OBL species	<input type="text"/> x 1 = <input type="text"/>		
2. _____				FACW species	<input type="text"/> x 2 = <input type="text"/>		
3. _____				FAC species	<input type="text"/> x 3 = <input type="text"/>		
4. _____				FACU species	<input type="text"/> x 4 = <input type="text"/>		
5. _____				UPL species	<input type="text"/> x 5 = <input type="text"/>		
_____ = Total Cover				Column Totals:	<input type="text"/> (A) <input type="text"/> (B)		
				Prevalence Index = B/A = <input type="text"/>			
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:			
(Plot size: <u>3m</u>)						<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
1. <u>Brassica sp. (canola)</u>	70	x	FACU			<input type="checkbox"/> 2 - Dominance Test is >50%	
2. _____						<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
3. _____						<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____						<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹	
5. _____						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. _____							
8. _____							
9. _____							
10. _____							
11. _____							
70 = Total Cover							
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?			
(Plot size: <input type="text"/>)						Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
1. _____							
2. _____							
_____ = Total Cover							
% Bare Ground in Herb Stratum <u>30</u>							

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-23
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-24
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-25
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-26
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)	
2.						
3.						
4.						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.						
2.						
3.						
4.						
5.						
_____ = Total Cover						
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.	<u>Brassica sp. (canola)</u>	70	x	FACU		
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
70 = Total Cover						
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.						
2.						
_____ = Total Cover						
% Bare Ground in Herb Stratum <input type="text" value="30"/>						

Remarks:

SOIL

Sampling Point: SI-26

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	10YR 5/3	100					Silty loam	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-27
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status		
(Plot size: <input type="text"/>)				Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text"/> 0 (A)
2. _____				Total Number of Dominant Species Across All Strata:	<input type="text"/> 1 (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text"/> 0 (A/B)
4. _____					
_____ = Total Cover				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: <input type="text"/>)				OBL species	<input type="text"/> x 1 = <input type="text"/>
1. _____				FACW species	<input type="text"/> x 2 = <input type="text"/>
2. _____				FAC species	<input type="text"/> x 3 = <input type="text"/>
3. _____				FACU species	<input type="text"/> x 4 = <input type="text"/>
4. _____				UPL species	<input type="text"/> x 5 = <input type="text"/>
5. _____				Column Totals:	<input type="text"/> (A) <input type="text"/> (B)
_____ = Total Cover				Prevalence Index = B/A = <input type="text"/>	
Herb Stratum (Plot size: <u>3m</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Brassica sp. (canola)</u>	70	x	FACU	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
2. _____				<input type="checkbox"/> 2 - Dominance Test is >50%	
3. _____				<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
4. _____				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____				<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹	
6. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
7. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____					
9. _____					
10. _____					
11. _____					
70 = Total Cover				Hydrophytic Vegetation Present?	
Woody Vine Stratum (Plot size: <input type="text"/>)				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-29
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-30
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 31
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): slope Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Plot taken on waterward side of levee above east bank Kootenai River at low point – below access road and ag field and above river. Veg is composed of many weedy species; it is also marginal – likely a false positive considering the preponderance of non-wetland indicators at this plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="3"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="5"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="60"/> (A/B)
1.					
2.					
3.					
				= Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text" value="3m"/>)				
1.	<u>Cornus alba</u>	10	x	FACW	
2.	<u>Symphotrichum subspicatum</u>	10	x	FACW	
3.	<u>Rosa woodsii</u>	15	x	FACU	
				35 = Total Cover	
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				
1.	<u>Tanacetum vulgare</u>	20	x	FACU	
2.	<u>Cinna latifolia</u>	90	x	FACW	
				110 = Total Cover	
Woody Vine Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
				= Total Cover	
% Bare Ground in Herb Stratum <input type="text"/>					

Remarks: Veg is composed of many weedy species; it is also marginal – likely a false positive considering the preponderance of non-wetland indicators at this plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 32
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Plot taken on waterward side of levee above east bank Kootenai River at low point above OHW – below access road and ag field and above river. Veg is composed of weedy species; it is also marginal – likely a false positive considering the preponderance of non-wetland indicators at this plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <u>40</u> x 2 = <u>80</u> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <u>45</u> x 4 = <u>90</u> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <u>85</u> (A) <u>170</u> (B) Prevalence Index = B/A = <u>2.0</u>
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	Plot size: <u>3m</u>	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Tanacetum vulgare</u>		<u>40</u>	<u>x</u>	<u>FACU</u>	
2. <u>Cinna latifolia</u>		<u>40</u>	<u>x</u>	<u>FACW</u>	
3. <u>Verbascum thapsus</u>		<u>5</u>		<u>FACU</u>	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
<u>85</u> = Total Cover					
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants¹
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks: Veg is composed of weedy species; it is also marginal – likely a false positive considering the preponderance of non-wetland indicators at this plot.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 33
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): slope Slope (%): 3
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Plot taken on waterward side of levee above east bank Kootenai River at low point above OHW – below access road and ag field and above river. Veg solely weedy plant species

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
(Plot size: <input type="checkbox"/>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> (A) Total Number of Dominant Species Across All Strata: <input type="checkbox"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="checkbox"/> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="checkbox"/> x 1 = <input type="checkbox"/> FACW species <input type="checkbox"/> x 2 = <input type="checkbox"/> FAC species <input type="checkbox"/> x 3 = <input type="checkbox"/> FACU species <input type="checkbox"/> x 4 = <input type="checkbox"/> UPL species <input type="checkbox"/> x 5 = <input type="checkbox"/> Column Totals: <input type="checkbox"/> (A) <input type="checkbox"/> (B) Prevalence Index = B/A = <input type="checkbox"/>
Sapling/Shrub Stratum				
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum				
(Plot size: <u>3m</u>)				
1. <u>Tanacetum vulgare</u>	40	x	FACU	
2. <u>Solidago canadensis</u>	40	x	FACU	
3. <u>Verbascum thapsus</u>	5		FACU	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
85 = Total Cover				
Woody Vine Stratum				
(Plot size: <input type="checkbox"/>)				
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-34
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-35
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Brassica sp.</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-36
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
(Plot size: <input type="text"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A)	
1. _____				Total Number of Dominant Species Across All Strata:	<input type="text" value="1"/> (B)	
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A/B)	
3. _____						
4. _____						
_____ = Total Cover						
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:		
(Plot size: <input type="text"/>)						Total % Cover of:
1. _____				OBL species	<input type="text"/> x 1 = <input type="text"/>	
2. _____				FACW species	<input type="text"/> x 2 = <input type="text"/>	
3. _____				FAC species	<input type="text"/> x 3 = <input type="text"/>	
4. _____				FACU species	<input type="text"/> x 4 = <input type="text"/>	
5. _____				UPL species	<input type="text"/> x 5 = <input type="text"/>	
_____ = Total Cover				Column Totals:	<input type="text"/> (A) <input type="text"/> (B)	
				Prevalence Index = B/A = <input type="text"/>		
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:		
(Plot size: <u>3m</u>)						<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
1. <u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>			<input type="checkbox"/> 2 - Dominance Test is >50%
2. _____						<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
3. _____						<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____						<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹
5. _____						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
_____ = Total Cover						
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?		
(Plot size: <input type="text"/>)						Yes <input type="checkbox"/>
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum <u>30</u>						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-37
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 38
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Basin/bench Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Plot taken on cove-bench above east bank Kootenai River at lowest point – below access road and ag field and above river. Veg solely weedy plant species – likely a false positive indicator. BPJ=plot dominated by non-wetland characteristics, save for veg and considered upland.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
1.					
2.					
3.					
				= Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Phalaris arundinacea</u>	100	x	FACW	
2.	<u>Cirsium vulgare</u>	5		FACU	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
				105 = Total Cover	
Woody Vine Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
				= Total Cover	
% Bare Ground in Herb Stratum <input type="text"/>					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Remarks: weedy plant species – likely a false positive indicator.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 39
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Basin/bench Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Plot taken on cove-bench above east bank Kootenai River at lowest point – below access road and ag field and above river. Veg solely weedy plant species – likely a false positive indicator. BPJ=plot dominated by non-wetland characteristics, save for veg and considered upland.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
1.					
2.					
3.					
				= Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text" value="80"/> x 2 = <input type="text" value="160"/> FAC species <input type="text" value="15"/> x 3 = <input type="text" value="45"/> FACU species <input type="text" value="5"/> x 4 = <input type="text" value="20"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text" value="100"/> (A) <input type="text" value="225"/> (B) Prevalence Index = B/A = <input type="text" value="2.25"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Phalaris arundinacea</u>	80	x	FACW	
2.	<u>Verbascum thapsus</u>	5		FACU	
3.	<u>Agrostis capillaris</u>	15		FAC	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
				100 = Total Cover	
Woody Vine Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
				= Total Cover	
% Bare Ground in Herb Stratum <input type="text"/>					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Remarks: weedy plant species – likely a false positive indicator.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-40
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	(Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
_____ = Total Cover					
Herb Stratum (Plot size: <u>3m</u>)					
1. <u>Brassica sp. (canola)</u>		70	x	FACU	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
70 = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-41
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	(Plot size: <input type="text"/>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	(Plot size: <input type="text"/>)					
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Brassica sp. (canola)</u>	(Plot size: <u>3m</u>)	70	x	FACU		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
70 = Total Cover						
Woody Vine Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	(Plot size: <input type="text"/>)					
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum <u>30</u>						
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)						
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-42
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	(Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
_____ = Total Cover					
Herb Stratum (Plot size: <u>3m</u>)					
1. <u>Brassica sp. (canola)</u>		70	x	FACU	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
70 = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-43
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	(Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum (Plot size: <u>3m</u>)					
1. <u>Brassica sp. (canola)</u>		70	x	FACU	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
70 = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-44
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
6.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
7.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
8.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
9.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
10.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-45
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Top of slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken on edge of ag field, above ditch wetland. No-till practices are currently used in this agricultural field – likely tilled, leveled, and tiled and drained in the past, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
1.	_____	_____	<input type="checkbox"/>	_____	
2.	_____	_____	<input type="checkbox"/>	_____	
3.	_____	_____	<input type="checkbox"/>	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	_____	<input type="checkbox"/>	_____	
1.	_____	_____	<input type="checkbox"/>	_____	
2.	_____	_____	<input type="checkbox"/>	_____	
3.	_____	_____	<input type="checkbox"/>	_____	
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	_____	<input type="checkbox"/>	_____	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Equisetum fluviatile</u>	2	<input type="checkbox"/>	OBL	
2.	<u>Cirsium vulgare</u>	5	<input type="checkbox"/>	FACU	
3.	<u>Cinna latifolia</u>	95	x	FACW	
4.	_____	_____	<input type="checkbox"/>	_____	
5.	_____	_____	<input type="checkbox"/>	_____	
6.	_____	_____	<input type="checkbox"/>	_____	
7.	_____	_____	<input type="checkbox"/>	_____	
8.	_____	_____	<input type="checkbox"/>	_____	
9.	_____	_____	<input type="checkbox"/>	_____	
10.	_____	_____	<input type="checkbox"/>	_____	
11.	_____	_____	<input type="checkbox"/>	_____	
102 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	_____	<input type="checkbox"/>	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1.	_____	_____	<input type="checkbox"/>	_____	
2.	_____	_____	<input type="checkbox"/>	_____	
_____ = Total Cover					
% Bare Ground in Herb Stratum		_____			

Remarks: Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 46
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="2"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="2"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
1.					
2.					
3.					
				= Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
				= Total Cover	
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Phalaris arundinacea</u>	40	x	FACW	
2.	<u>Typha latifolia</u>	60	x	OBL	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
				100 = Total Cover	
Woody Vine Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
				= Total Cover	
% Bare Ground in Herb Stratum <input type="text"/>					Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-47
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Top of slope Slope (%): 3
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken on edge of ag field, above ditch wetland. No-till practices are currently used in this agricultural field – likely tilled, leveled, and tiled and drained in the past, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

VEGETATION – Use scientific names of plants.

Stratum	Plot size	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u>	(Plot size: <u> </u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. _____					
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
<u>Sapling/Shrub Stratum</u>	(Plot size: <u> </u>)				
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
<u>Herb Stratum</u>	(Plot size: <u>3m</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Agrostis scabra</u>		10	x	FAC	
2. <u>Cirsium vulgare</u>		10		FACU	
3. <u>Lolium perenne</u>		70	x	FAC	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
90 = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u> </u>					

Remarks: Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

SOIL

Sampling Point: SI-47

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	Roots	100					Roots	
5-20	10YR 5/2	100					Silty loam	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 48
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>		40	x	FACW	
2. <u>Typha latifolia</u>		60	x	OBL	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-49
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Plot is upland.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <u>60</u> x 3 = <u>160</u> FACU species <u>40</u> x 4 = <u>120</u> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <u>100</u> (A) <u>280</u> (B) Prevalence Index = B/A = <u>2.8</u>
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	Plot size: <u>3m</u>	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Brassica sp. (canola)</u>		<u>40</u>	<u>x</u>	<u>FACU</u>	
2. <u>Equisetum arvense</u>		<u>60</u>	<u>x</u>	<u>FAC</u>	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
<u>100</u> = Total Cover					
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants¹
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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Remarks: marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Plot is upland.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-50
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-51
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
6.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
7.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
8.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
9.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
10.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
11.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
= Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - 5 - Wetland Non-Vascular Plants¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-52
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-53
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)	
2.						
3.						
4.						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.						
2.						
3.						
4.						
5.						
_____ = Total Cover						
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>		
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
_____ = Total Cover						
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1.						
2.						
_____ = Total Cover						
% Bare Ground in Herb Stratum <u>30</u>						

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - 5 - Wetland Non-Vascular Plants¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-54
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	Plot size: <u>3m</u>	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Brassica sp. (canola)</u>		70	x	FACU		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
70 = Total Cover						
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum <u>30</u>						
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-55
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Remarks: In middle of access road – likely tilled, leveled, and tilled and drained in the past, area sprayed periodically with herbicides, No plants in plot.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text"/> (A) Total Number of Dominant Species Across All Strata: <input type="text"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text"/> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>100</u>					

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants¹
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks: No plants in plot

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-56
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: in disturbed ag field planted with potatoes. Given the weedy nature of the two species in the plot, the fact it's in a disturbed ag field, and the low density of plants in general, it has been determined that veg is not hydrophytic = false positive.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status			
1. _____				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)		
2. _____						
3. _____						
4. _____						
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species _____ x 5 = _____ Column Totals: <u>17</u> (A) <u>53</u> (B) Prevalence Index = B/A = <u>3.1</u>		
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status			
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
1. <u>Chenopodium album</u>	15	x	FAC			
2. <u>Cirsium vulgare</u>	2		FACU			
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
17 = Total Cover						
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status			
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum <u>40</u>						
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Hydrophytic Vegetation Present?</td> <td style="width: 10%;">Yes <input checked="" type="checkbox"/></td> <td style="width: 10%;">No <input type="checkbox"/></td> </tr> </table>				Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>				

Remarks: Given the weedy nature of the two species in the plot, the fact it's in a disturbed ag field, and the low density of plants in general, it has been determined that veg is not hydrophytic = false positive.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-57
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-58
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: in disturbed ag field planted with potatoes. Given the weedy nature of the two species in the plot, the fact it's in a disturbed ag field, and the low density of plants in general, it has been determined that veg is not hydrophytic = false positive.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
(Plot size: <input type="text"/>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
1. _____				
2. _____				
3. _____				
4. _____				
	_____ = Total Cover			Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text" value="15"/> x 3 = <input type="text" value="45"/> FACU species <input type="text" value="2"/> x 4 = <input type="text" value="8"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text" value="17"/> (A) <input type="text" value="53"/> (B) Prevalence Index = B/A = <input type="text" value="3.1"/>
Sapling/Shrub Stratum				
(Plot size: <input type="text"/>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
	_____ = Total Cover			
Herb Stratum				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(Plot size: <input type="text" value="3m"/>)				
1. <u>Chenopodium album</u>	15	x	FAC	
2. <u>Cirsium vulgare</u>	2		FACU	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	17 = Total Cover			
Woody Vine Stratum				
(Plot size: <input type="text"/>)				
1. _____				
2. _____				
	_____ = Total Cover			
% Bare Ground in Herb Stratum	<u>40</u>			

Remarks: Given the weedy nature of the two species in the plot, the fact it's in a disturbed ag field, and the low density of plants in general, it has been determined that veg is not hydrophytic = false positive.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-59
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-60
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	Plot size: <input type="text"/>				
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	Plot size: <u>3m</u>				
1. <u>Brassica sp. (canola)</u>		70	x	FACU	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
70 = Total Cover					
Woody Vine Stratum	Plot size: <input type="text"/>				
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-62
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all wheat, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
(Plot size: <input type="text"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A)	
1. _____				Total Number of Dominant Species Across All Strata:	<input type="text" value="1"/> (B)	
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A/B)	
3. _____						
4. _____						
_____ = Total Cover						
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:		
(Plot size: <input type="text"/>)						Total % Cover of:
1. _____				OBL species	<input type="text"/> x 1 = <input type="text"/>	
2. _____				FACW species	<input type="text"/> x 2 = <input type="text"/>	
3. _____				FAC species	<input type="text"/> x 3 = <input type="text"/>	
4. _____				FACU species	<input type="text"/> x 4 = <input type="text"/>	
5. _____				UPL species	<input type="text"/> x 5 = <input type="text"/>	
_____ = Total Cover				Column Totals:	<input type="text"/> (A) <input type="text"/> (B)	
				Prevalence Index = B/A = <input type="text"/>		
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:		
(Plot size: <u>3m</u>)						<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
1. <u>Triticum sp. (wheat)</u>	100	x	FACU			<input type="checkbox"/> 2 - Dominance Test is >50%
2. _____						<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
3. _____						<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____						<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹
5. _____						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?		
(Plot size: <input type="text"/>)						Yes <input type="checkbox"/>
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-63
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
(Plot size: <input type="text"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A)		
1. _____				Total Number of Dominant Species Across All Strata:	<input type="text" value="1"/> (B)		
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A/B)		
3. _____							
4. _____							
_____ = Total Cover							
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:			
(Plot size: <input type="text"/>)						Total % Cover of:	Multiply by:
1. _____						OBL species	<input type="text"/> x 1 = <input type="text"/>
2. _____						FACW species	<input type="text"/> x 2 = <input type="text"/>
3. _____						FAC species	<input type="text"/> x 3 = <input type="text"/>
4. _____						FACU species	<input type="text"/> x 4 = <input type="text"/>
5. _____						UPL species	<input type="text"/> x 5 = <input type="text"/>
_____ = Total Cover				Column Totals:	<input type="text"/> (A) <input type="text"/> (B)		
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:			
(Plot size: <u>3m</u>)						<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
1. <u>Brassica sp. (canola)</u>	70	x	FACU			<input type="checkbox"/> 2 - Dominance Test is >50%	
2. _____						<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
3. _____						<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____						<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹	
5. _____						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. _____							
8. _____							
9. _____							
10. _____							
11. _____							
70 = Total Cover							
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?			
(Plot size: <input type="text"/>)						Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
1. _____							
2. _____							
_____ = Total Cover							
% Bare Ground in Herb Stratum <u>30</u>							

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-64
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all wheat, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
(Plot size: <input type="text"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A)	
1. _____				Total Number of Dominant Species Across All Strata:	<input type="text" value="1"/> (B)	
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="text" value="0"/> (A/B)	
3. _____						
4. _____						
	_____ = Total Cover					
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:		
(Plot size: <input type="text"/>)						Total % Cover of:
1. _____				OBL species	<input type="text"/> x 1 = <input type="text"/>	
2. _____				FACW species	<input type="text"/> x 2 = <input type="text"/>	
3. _____				FAC species	<input type="text"/> x 3 = <input type="text"/>	
4. _____				FACU species	<input type="text"/> x 4 = <input type="text"/>	
5. _____				UPL species	<input type="text"/> x 5 = <input type="text"/>	
	_____ = Total Cover			Column Totals:	<input type="text"/> (A) <input type="text"/> (B)	
	_____ = Total Cover			Prevalence Index = B/A = <input type="text"/>		
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:		
(Plot size: <u>3m</u>)						<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
1. <u>Triticum sp. (wheat)</u>	100	x	FACU			<input type="checkbox"/> 2 - Dominance Test is >50%
2. _____						<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
3. _____						<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____						<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹
5. _____						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
	100 = Total Cover					
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?		
(Plot size: <input type="text"/>)						Yes <input type="checkbox"/>
1. _____						
2. _____						
	_____ = Total Cover					
% Bare Ground in Herb Stratum _____						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-65
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	70	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
70 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="30"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-66
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all wheat, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Triticum sp. (wheat)</u>		100	x	FACU		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)						
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-67
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-68
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all wheat, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)	
2. _____						
3. _____						
4. _____						
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>	
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
3. _____						
4. _____						
5. _____						
_____ = Total Cover						
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Triticum sp. (wheat)</u>		100	x	FACU		
2. _____						
3. _____						
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - 5 - Wetland Non-Vascular Plants¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-69
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	(Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					
Prevalence Index worksheet:					
Sapling/Shrub Stratum (Plot size: _____)				Total % Cover of: _____ Multiply by:	
1. _____				OBL species	_____ x 1 = _____
2. _____				FACW species	_____ x 2 = _____
3. _____				FAC species	_____ x 3 = _____
4. _____				FACU species	_____ x 4 = _____
5. _____				UPL species	_____ x 5 = _____
				Column Totals:	_____ (A) _____ (B)
				Prevalence Index = B/A = _____	
Hydrophytic Vegetation Indicators:					
<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present?					
				Yes	<input type="checkbox"/>
				No	<input checked="" type="checkbox"/>
% Bare Ground in Herb Stratum <u>30</u>					

Remarks:

SOIL

Sampling Point: SI-69

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	10YR 5/3	100					Silty loam	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-70
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all wheat, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Triticum sp. (wheat)</u>	100	x	FACU	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - 5 - Wetland Non-Vascular Plants¹
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-71
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all canola stubble, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.	<u>Brassica sp. (canola)</u>	<u>70</u>	<u>x</u>	<u>FACU</u>	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>30</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-72
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, plants all wheat, area sprayed periodically with herbicides

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="0"/> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				
1. <u>Triticum sp. (wheat)</u>		100	x	FACU	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)				
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text"/>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-73
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Farnhamton silt loam, protected, drained, 2 to 5% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: in open ruderal area between forks of access road.					

VEGETATION – Use scientific names of plants.

Stratum	Plot size	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u>	(Plot size: <u> </u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____					
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>
<u>Sapling/Shrub Stratum</u>	(Plot size: <u> </u>)				
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
<u>Herb Stratum</u>	(Plot size: <u>3m</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____					
2. <u>Verbascum thapsus</u>		<u>5</u>		<u>FACU</u>	
3. <u>Avena sativa</u>		<u>40</u>	<u>x</u>	<u>UPL</u>	
4. <u>Amsinckia menziesii</u>		<u>20</u>	<u>x</u>	<u>NL</u>	
5. <u>Cirsium vulgare</u>		<u>10</u>		<u>FACU</u>	
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum		<u>20</u>			
Remarks:					

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-74
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Top of slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken on edge of ag field, above ditch wetland. No-till practices are currently used in this agricultural field – likely tilled, leveled, and tiled and drained in the past, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	(Plot size: _____)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum (Plot size: <u>3m</u>)					
1. <u>Equisetum fluviatile</u>		2		OBL	
2. <u>Cirsium vulgare</u>		5		FACU	
3. <u>Cinna latifolia</u>		95	x	FACW	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
102 = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Remarks: Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 75
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>		40	x	FACW	
2. <u>Typha latifolia</u>		60	x	OBL	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants¹
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-76
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Top of slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken on edge of ag field, above ditch wetland. No-till practices are currently used in this agricultural field – likely tilled, leveled, and tiled and drained in the past, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
1.					
2.					
3.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				
1.	<u>Equisetum fluviatile</u>	2		OBL	
2.	<u>Cirsium vulgare</u>	5		FACU	
3.	<u>Cinna latifolia</u>	95	x	FACW	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
102 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text"/>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Remarks: Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 77
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>		40	x	FACW	
2. <u>Typha latifolia</u>		60	x	OBL	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 20 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-78
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Top of slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Remarks: Taken on edge of ag field, above ditch wetland. No-till practices are currently used in this agricultural field – likely tilled, leveled, and tiled and drained in the past, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="1"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="1"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	Plot size: <input type="text" value="3m"/>	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Equisetum fluviatile</u>		2		OBL	
2. <u>Cirsium vulgare</u>		5		FACU	
3. <u>Cinna latifolia</u>		95	x	FACW	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
102 = Total Cover					
Woody Vine Stratum	Plot size: <input type="text"/>	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text"/>					

Remarks: Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

SOIL

Sampling Point: SI-78

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	Roots	100					Roots	
4-20	10YR 6/3	100					Silty loam	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 79
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Stratum	Plot size	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u>	(Plot size: <u> </u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. _____					
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="checkbox"/> x 1 = <input type="checkbox"/> FACW species <input type="checkbox"/> x 2 = <input type="checkbox"/> FAC species <input type="checkbox"/> x 3 = <input type="checkbox"/> FACU species <input type="checkbox"/> x 4 = <input type="checkbox"/> UPL species <input type="checkbox"/> x 5 = <input type="checkbox"/> Column Totals: <input type="checkbox"/> (A) <input type="checkbox"/> (B) Prevalence Index = B/A = <input type="checkbox"/>
<u>Sapling/Shrub Stratum</u>	(Plot size: <u> </u>)				
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
<u>Herb Stratum</u>	(Plot size: <u>3m</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Cinna latifolia</u>		10		FACW	
2. <u>Typha latifolia</u>		65	x	OBL	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
75 = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size: <u>3m</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. <u>Solanum dulcamara</u>		20	x	FAC	
2. _____					
20 = Total Cover					
% Bare Ground in Herb Stratum _____					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 80
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 2
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum	(Plot size: <u>3m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>		40	x	FACW	
2. <u>Typha latifolia</u>		60	x	OBL	
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
100 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

5 - Wetland Non-Vascular Plants¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnors Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 81
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: plot taken above drainage canal – near access road and ag field. Veg likely a false positive – weedy species in a highly disturbed area. All other indicators strongly suggest non-wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____				
3. _____				
4. _____				
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
_____ = Total Cover				
_____ = Total Cover				
1. <u>Phalaris arundinacea</u>	85	x	FACW	
2. <u>Equisetum arvense</u>	10		FAC	
3. <u>Agrostis capillaris</u>	10		FAC	
105 = Total Cover				
_____ = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_____ = Total Cover				
_____ = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				

Remarks: Likely a false positive – weedy species in a highly disturbed area. All other indicators strongly suggest non-wetland.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI-82
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope Slope (%): 1
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0 to 2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Taken on edge of ag field, above ditch wetland. No-till practices are currently used in this agricultural field – likely tilled, leveled, and tilled and drained in the past, area sprayed periodically with herbicides. Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	(Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. _____					
3. _____					
4. _____					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species <u>45</u> x 2 = <u>90</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species _____ x 5 = _____ Column Totals: <u>85</u> (A) <u>240</u> (B) Prevalence Index = B/A = <u>2.82</u>
Sapling/Shrub Stratum (Plot size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum (Plot size: <u>3m</u>)					
1. <u>Lolium perenne</u>		10		FAC	
2. <u>Cirsium vulgare</u>		25	x	FACU	
3. <u>Cinna latifolia</u>		45	x	FACW	
4. <u>Verbascum thapsus</u>		5		FACU	
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>15</u>					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Remarks: Marginal veg – BPJ=veg is a false positive particularly when considering all other characteristics at this sample plot. Species in plot are known to be weedy.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnars Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 83
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Slope toe/basin Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			

Remarks: plot taken in drainage canal – below access road and ag field.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <input type="text"/>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="2"/> (A) Total Number of Dominant Species Across All Strata: <input type="text" value="2"/> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <input type="text" value="100"/> (A/B)
2.					
3.					
4.					
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <input type="text"/> x 1 = <input type="text"/> FACW species <input type="text"/> x 2 = <input type="text"/> FAC species <input type="text"/> x 3 = <input type="text"/> FACU species <input type="text"/> x 4 = <input type="text"/> UPL species <input type="text"/> x 5 = <input type="text"/> Column Totals: <input type="text"/> (A) <input type="text"/> (B) Prevalence Index = B/A = <input type="text"/>
Sapling/Shrub Stratum	(Plot size: <input type="text"/>)				
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					
Herb Stratum	(Plot size: <input type="text" value="3m"/>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>Phalaris arundinacea</u>	10		FACW	
2.	<u>Typha latifolia</u>	25	x	OBL	
3.	<u>Cinna latifolia</u>	80	x	FACW	
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
115 = Total Cover					
Woody Vine Stratum	(Plot size: <input type="text"/>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1.					
2.					
_____ = Total Cover					
% Bare Ground in Herb Stratum <input type="text" value="10"/>					

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Kootenai R., Shorty's Island City/County: Bonnerr Ferry, Boundary Sampling Date: 21 September 2011
 Applicant/Owner: USACE State: ID Sampling Point: SI - 84
 Investigator(s) J. Barna / S. Novak Section, Township, Range: T63N, R1E, sec31
 Landform (hillslope, terrace, etc.): River terrace Local relief (concave, convex, none): Bench Slope (%): 0
 Subregion (LRR): L. Kootenai 17010104 Lat: 48.7654°N Long: 116.3821°W Datum: NAD 88
 Soil Map Unit Name: Schnoorson-DeVoignes cmplx, prot, drained, 0-2% slope NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: Plot taken on bench above incised inlet connected to the Kootenai River – below access road and ag field. Veg is marginal – dominated by weedy species and mostly does not align with other indicators noted at this plot, which are non-wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
(Plot size: <input type="checkbox"/>)				Number of Dominant Species That Are OBL, FACW, or FAC:	<input type="checkbox"/> 1 (A)	
1. _____				Total Number of Dominant Species Across All Strata:	<input type="checkbox"/> 1 (B)	
2. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<input type="checkbox"/> 100 (A/B)	
3. _____						
4. _____						
_____ = Total Cover						
Sapling/Shrub Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:		
(Plot size: <input type="checkbox"/>)						Total % Cover of:
1. _____				OBL species	<input type="checkbox"/> x 1 = <input type="checkbox"/>	
2. _____				FACW species	<input type="checkbox"/> x 2 = <input type="checkbox"/>	
3. _____				FAC species	<input type="checkbox"/> x 3 = <input type="checkbox"/>	
4. _____				FACU species	<input type="checkbox"/> x 4 = <input type="checkbox"/>	
5. _____				UPL species	<input type="checkbox"/> x 5 = <input type="checkbox"/>	
_____ = Total Cover				Column Totals:	<input type="checkbox"/> (A) <input type="checkbox"/> (B)	
				Prevalence Index = B/A = <input type="checkbox"/>		
Herb Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:		
(Plot size: <u>3m</u>)						<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
1. <u>Phalaris arundinacea</u>	5		FACW			<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
2. <u>Symphotrichum subspicatum</u>	10		FACW			<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
3. <u>Cinna latifolia</u>	85	x	FACW			<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____						<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹
5. _____						<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____						¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
100 = Total Cover						
Woody Vine Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?		
(Plot size: <input type="checkbox"/>)						Yes <input checked="" type="checkbox"/>
1. _____						
2. _____						
_____ = Total Cover						
% Bare Ground in Herb Stratum _____						

Remarks: Veg is marginal – dominated by weedy species, likely a false positive although may also be legitimate.

APPENDIX C: GROUND LEVEL COLOR PHOTOGRAPHS

Photo 1: Looking south from the existing levee down the Kootenai River; typical vegetation on the waterward side of the levee; Shorty's Island on opposite shore to the right.



Photo 2: Looking south from the existing levee over the cove found upslope of Kootenai River; typical vegetation found within the cove and between the waterward side of the levee and the river; overlooking sample plots SI-38 and SI-39.



Photo 3: Looking WNW from the bench located just above the inlet extending from the Kootenai River to the drainage of Wetland 5; near sample plot SI-84; unvegetated waterline visible on the left bank (OHW located above this line and not visible).



Photo 4: Looking SWS towards sample plot SI-43; typical conditions in canola agricultural field.



Photo 5: Looking SW from access road down Wetland 5 and towards the existing non-functioning pump (visible in the top right corner); typical conditions for Wetland 5; sample plots SI-78 and SI-79 located on the left side of the channel.



Photo 6: Looking ESE from edge of the canola field down Wetland 4; typical conditions for Wetland 4; sample plots SI-45 and SI-46 located on the left side of the channel; SI-74 and SI-75 on the right.



Photo 7: Looking S from access road across potato agricultural field; near sample plot SI-58.



Photo 8: Looking south from access road across wheat agricultural field; near sample plot SI-68.



APPENDIX D: ADDITIONAL TABLES AND INFORMATION

(None)

APPENDIX E: LITERATURE CITATIONS

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