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Regulatory Program



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INTERIM APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in the Interim Approved Jurisdictional Determination Form User Manual.

SECTION I: BACKGROUND INFORMATION

A. COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (AJD): 31 August 2018

B. ORM NUMBER IN APPROPRIATE FORMAT (e.g., HQ-2015-00001-SMJ): LRH-2018-452-OHR-Ditch 1-4

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Ohio

County/parish/borough: Gallia

City: Bidwell

Center coordinates of site (lat/long in degree decimal format): Lat. 38.89470, Long. -82.30015.

Map(s)/diagram(s) of review area (including map identifying single point of entry (SPOE) watershed and/or potential jurisdictional areas where applicable) is/are: attached in report/map titled Surface Water Delineation Report for the Dan Evans Industrial Park – Figure 2 – Surface Waters.

Other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form. List JD form ID numbers (e.g., HQ-2015-00001-SMJ-1): .

D. REVIEW PERFORMED FOR SITE EVALUATION:

Office (Desk) Determination Only. Date: .

Office (Desk) and Field Determination. Office/Desk Dates: 30 August 2018 Field Date(s): 8 August 2018.

SECTION II: DATA SOURCES

Check all that were used to aid in the determination and attach data/maps to this AJD form and/or references/citations in the administrative record, as appropriate.

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant. Title/Date: Figure 1 – Site Location Map (Surface Water Delineation Report for the Dan Evans Industrial Park, Jun 2018), Figure 2 – Surface Water Significant Nexus Map (Significant Nexus Memorandum, Aug 2018), and SPOE Watershed Map 1.

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Data sheets/delineation report are sufficient for purposes of AJD form. Title/Date: .

Data sheets/delineation report are not sufficient for purposes of AJD form. Summarize rationale and include information on revised data sheets/delineation report that this AJD form has relied upon: .

Revised Title/Date: .

Data sheets prepared by the Corps. Title/Date: .

Corps navigable waters study. Title/Date: .

CorpsMap ORM map layers. Title/Date: USGS NHD, USFWS NWI, and FEMA Flood Hazard Zones.

USGS Hydrologic Atlas. Title/Date: .

USGS, NHD, or WBD data/maps. Title/Date: .

USGS 8, 10 and/or 12 digit HUC maps. HUC number: 05090101 – Middle Ohio, 050901010602 – Barren Creek-Raccoon Creek.

USGS maps. Scale & quad name and date: 7.5 Minute Series Topographic Map (1:24K), Vinton, Ohio Quadrangle, 1961.

USDA NRCS Soil Survey. Citation: Figure 2 – NWI and Soils Map (Surface Water Delineation Report for the Dan Evans Industrial Park, Jun 2018)..

USFWS National Wetlands Inventory maps. Citation: Figure 2 – NWI and Soils Map (Surface Water Delineation Report for the Dan Evans Industrial Park, Jun 2018)..

State/Local wetland inventory maps. Citation: .

FEMA/FIRM maps. Citation: .

- Photographs: Aerial. Citation: . or Other. Citation: Attachment A – Photographs (Surface Water Delineation Report for the Dan Evans Industrial Park, Jun 2018).
- LiDAR data/maps. Citation: .
- Previous JDs. File no. and date of JD letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .
- Other information (please specify): .

SECTION III: SUMMARY OF FINDINGS

Complete ORM “Aquatic Resource Upload Sheet” or Export and Print the Aquatic Resource Screen from ORM for All Waters and Features, Regardless of Jurisdictional Status – Required

A. RIVERS AND HARBORS ACT (RHA) SECTION 10 DETERMINATION OF JURISDICTION:

“navigable waters of the U.S.” within RHA jurisdiction (as defined by 33 CFR part 329) in the review area.

• **Complete Table 1 - Required**

NOTE: If the navigable water is not subject to the ebb and flow of the tide or included on the District’s list of Section 10 navigable waters list, **DO NOT USE THIS FORM TO MAKE THE DETERMINATION.** The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Section 10 RHA navigability determination.

B. CLEAN WATER ACT (CWA) SECTION 404 DETERMINATION OF JURISDICTION: “waters of the U.S.” within CWA jurisdiction (as defined by 33 CFR part 328.3) in the review area. Check all that apply.

(a)(1): All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide. (Traditional Navigable Waters (TNWs))

• **Complete Table 1 - Required**

This AJD includes a case-specific (a)(1) TNW (Section 404 navigable-in-fact) determination on a water that has not previously been designated as such. Documentation required for this case-specific (a)(1) TNW determination is attached.

(a)(2): All interstate waters, including interstate wetlands.

• **Complete Table 2 - Required**

(a)(3): The territorial seas.

• **Complete Table 3 - Required**

(a)(4): All impoundments of waters otherwise identified as waters of the U.S. under 33 CFR part 328.3.

• **Complete Table 4 - Required**

(a)(5): All tributaries, as defined in 33 CFR part 328.3, of waters identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• **Complete Table 5 - Required**

(a)(6): All waters adjacent to a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.

• **Complete Table 6 - Required**

Bordering/Contiguous.
Neighboring:

(c)(2)(i): All waters located within 100 feet of the ordinary high water mark (OHWM) of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3.

(c)(2)(ii): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 and not more than 1,500 feet of the OHWM of such water.

(c)(2)(iii): All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of 33 CFR part 328.3, and all waters within 1,500 feet of the OHWM of the Great Lakes.

(a)(7): All waters identified in 33 CFR 328.3(a)(7)(i)-(v) where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• **Complete Table 7 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(7) waters identified in the similarly situated analysis. - Required**

Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

(a)(8): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3 not covered by (c)(2)(ii) above and all waters located within 4,000 feet of the high tide line or OHWM of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 where they are determined on a

case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 8 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(8) waters identified in the similarly situated analysis. - Required**

Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

C. NON-WATERS OF THE U.S. FINDINGS:

Check all that apply.

The review area is comprised entirely of dry land.

Potential-(a)(7) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(7) waters identified in the similarly situated analysis. - Required**

Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

Potential-(a)(8) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(8) waters identified in the similarly situated analysis. - Required**

Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

Excluded Waters (Non-Waters of U.S.), even where they otherwise meet the terms of paragraphs (a)(4)-(a)(8):

- **Complete Table 10 - Required**

(b)(1): Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA.

(b)(2): Prior converted cropland.

(b)(3)(i): Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.

(b)(3)(ii): Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.

(b)(3)(iii): Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1)-(a)(3).

(b)(4)(i): Artificially irrigated areas that would revert to dry land should application of water to that area cease.

(b)(4)(ii): Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds.

(b)(4)(iii): Artificial reflecting pools or swimming pools created in dry land.¹

(b)(4)(iv): Small ornamental waters created in dry land.¹

(b)(4)(v): Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.

(b)(4)(vi): Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways.¹

(b)(4)(vii): Puddles.¹

(b)(5): Groundwater, including groundwater drained through subsurface drainage systems.¹

(b)(6): Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.¹

(b)(7): Wastewater recycling structures created in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.

Other non-jurisdictional waters/features within review area that do not meet the definitions in 33 CFR 328.3 of (a)(1)-(a)(8) waters and are not excluded waters identified in (b)(1)-(b)(7).

- **Complete Table 11 - Required.**

D. ADDITIONAL COMMENTS TO SUPPORT AJD: See Tables 6, 8, and 10 below.

¹ In many cases these excluded features will not be specifically identified on the AJD form, unless specifically requested. Corps Districts may, in case-by-case instances, choose to identify some or all of these features within the review area.

Jurisdictional Waters of the U.S.

Default field entry is “N/A”. Delete “N/A” and fill out all fields in the table where applicable for waters/features present in the review area.

Table 1. (a)(1) Traditional Navigable Waters

(a)(1) Waters Name	(a)(1) Criteria	Rationale to Support (a)(1) Designation Include High Tide Line or Ordinary High Water Mark indicators, when applicable.
N/A	N/A	N/A

Table 2. (a)(2) Interstate Waters

(a)(2) Waters Name	Rationale to Support (a)(2) Designation
N/A	N/A

Table 3. (a)(3) Territorial Seas

(a)(3) Waters Name	Rationale to Support (a)(3) Designation
N/A	N/A

Table 4. (a)(4) Impoundments

(a)(4) Waters Name	Rationale to Support (a)(4) Designation
N/A	N/A

Table 5. (a)(5) Tributaries

(a)(5) Waters Name	Flow Regime	(a)(1)-(a)(3) Water Name to which this (a)(5) Tributary Flows	Tributary Breaks	Rationale for (a)(5) Designation and Additional Discussion. Identify flowpath to (a)(1)-(a)(3) water or attach map identifying the flowpath; explain any breaks or flow through excluded/non-jurisdictional features, etc.
N/A	N/A	N/A	N/A	N/A

Table 6. (a)(6) Adjacent Waters

(a)(6) Waters Name	(a)(1)-(a)(5) Water Name to which this Water is Adjacent	Rationale for (a)(6) Designation and Additional Discussion. Identify the type of water and how the limits of jurisdiction were established (e.g., wetland, 87 Manual/Regional Supplement); explain how the 100-year floodplain and/or the distance threshold was determined; whether this water extends beyond a threshold; explain if the water is part of a mosaic, etc.
Wetland B	Unnamed tributary to Barren Creek (a)(5)	Wetland B is bordering the head an unnamed tributary to Barren Creek via a culvert located immediately south of the site. This unnamed tributary to Barren Creek is located outside of the approved JD review area; however, this tributary exhibits a defined bed and bank, an ordinary high water mark, and contributes flow to a downstream (a)(1) water, the Ohio River. Therefore, the unnamed tributary to Barren Creek is an (a)(5) water. Wetland B in conjunction with the unnamed tributary to Barren Creek conveys flow to the tributary system (Wetland B > UNT Barren Creek > Barren Creek > Raccoon Creek > Ohio River). Wetland B is located outside of the ordinary high water mark of the unnamed tributary to Barren Creek. The lateral limits of jurisdiction for Wetland B were established by the 1987 Manual and applicable Regional Supplement. Wetland B has been determined to be an (a)(6) water because it is bordering the head of an (a)(5) tributary; therefore, the 100-year floodplain and distance thresholds for neighboring determinations are not applicable for Wetland B.

Table 7. (a)(7) Waters

SPOE Name	(a)(7) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; discuss whether any similarly situated waters were present and aggregated for SND; discuss data, provide analysis, and summarize how the waters have more than speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A

Table 8. (a)(8) Waters

SPOE Name	(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to subject water and aggregated for SND; discuss data, provide analysis, and then summarize how the waters have more than speculative or insubstantial effect the on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
1	Wetland A	Ohio River (a)(1)	The SPOE 1 watershed lateral limits were delineated using the ORM JD Viewer SPOE tool. The SPOE watershed is depicted on the attached map labeled SPOE 1 – LRH-2018-452-OHR. The 100-year floodplain was determined via the CorpsMap ORM layer FEMA Flood Hazards. Wetland A is not located within the floodplain of an (a)(1)-(a)(3) water. The distance to an (a)(5) water was measured via the CorpsMap ORM distance tool. Wetland A is located approximately 230 linear feet

			<p>(If) from an unnamed tributary to Barren Creek located north of the approved JD boundary. This unnamed tributary to Barren Creek is located outside of the approved JD review area; however, this tributary exhibits a defined bed and bank, an ordinary high water mark, and contributes flow to a downstream (a)(1) water, the Ohio River. Therefore, the unnamed tributary to Barren Creek is an (a)(5) water.</p> <p>Similarly situated waters were determined using the ORM JD Viewer SPOE tool SVL (Soil, Vegetation, and Landform) layers which include: (S) soil drainage class (SSURGO), (V) gap land cover-vegetation class, and (L) landforms (USGS HUC 10). The gap land cover-vegetation class was the limiting factor in this determination. The approved JD site includes one continuous vegetation class (Agricultural Vegetation); however, it is bordered by a differing vegetation class (Developed or Other Human Use); thus, limiting the similarly situated review area to the approved JD site. No waters within the SPOE watershed were determined to be similarly situated.</p> <p>Climatological information and hydrologic information were considered in the analysis of the physical characteristics of Wetland A. Based on the climatological information provided in the Significant Nexus Memorandum (report), the area surrounding the subject site receives an average annual precipitation of 41 inches per year and an average annual snowfall of 7 inches per year. Based on the National Climate Data Center climatological information for Columbus, Ohio (World Meteorological Organization Station 72428), located approximately 80 aerial miles west of the subject site, central and southern Ohio receives on average approximately 104 days per year with precipitation greater than or equal to 0.1 inch. Wetland A conveys storm water and surface runoff to the tributary system via Ditch 4 to an unnamed tributary to Barren Creek located approximately 230 feet north of Wetland A outside of the approved JD review area. Ditch 4 has been determined to be an excluded feature per (b)(3)(i). See Table 10 for additional information. Wetland A is located outside of the ordinary high water mark of Ditch 4; and therefore, is not considered an excluded feature associated with Ditch 4. Ditch 4 provides ephemeral flow to an unnamed tributary to Barren Creek which flows to Barren Creek then into Raccoon Creek, a direct tributary to the Ohio River, an (a)(1) water. Raccoon Creek is listed on the Section 303(d) of the Clean Water Act list of Ohio's impaired waters. The Ohio Environmental Protection Agency (Ohio EPA) completed the Total Maximum Daily Loads (TMDLs) for the Upper Raccoon Creek in December 2002 which identified alkalinity (pH) and metals from coal mining as the main source of impairment for the watershed. The TMDLs for Lower Raccoon Creek have been completed but not approved by the USEPA. Barren Creek is characterized as a warm-water habitat (WWH) by the Ohio EPA under the Ohio Administrative Code, Chapter 3745-1 Water Quality Standards.</p> <p>Given the amount of annual precipitation for the area surrounding the subject site, Wetland A consistently conveys storm water and surface runoff to the tributary system via Ditch 4 to an unnamed tributary to Barren Creek located approximately</p>
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			<p>230 feet north of Wetland A outside of the approved JD review area. Wetlands protect and improve water quality, provide fish and wildlife habitats, and store floodwaters. Wetland A provides additional sediment and nutrient trapping, flow attenuation, and habitat for non-riverine plant and animal species. Wetland A also has the ability to provide nutrients and organic carbon that support food webs for plants and wildlife via Ditch 4 into an unnamed tributary to Barren Creek and further downstream into Raccoon Creek and the Ohio River. The on-site investigation observed crayfish burrows within Wetland A and frogs and tadpoles directly utilizing Wetland A. Wetland A has the capacity to carry and reduce pollutants or flood waters to the receiving (a)(1) water, the Ohio River, via Ditch 4. Wetland A helps maintain the integrity of Barren Creek while also reducing any further impairment of Raccoon Creek. Wetland A has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of the receiving (a)(1) water, the Ohio River.</p> <p>Wetland A provides the following functions as observed by the evidence of hydrological indicators (surface water, high water table, saturation, iron deposits, hydrogen sulfide odor, drainage patterns, geomorphic position, and FAC-neutral test): sediment trapping; nutrient recycling, specifically nitrogen and phosphors from adjacent agriculture; pollutant trapping, transformation, filtering, and transport, specifically excess nitrogen and phosphors from adjacent agriculture that could cause downstream algal blooms; and retention and attenuation of flood waters; runoff storage. Wetland A has been determined to be an (a)(8) water and is considered a jurisdictional water of the United States.</p>
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Non-Jurisdictional Waters

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 9. Non-Waters/No Significant Nexus

SPOE Name	Non-(a)(7)/(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water DOES NOT have a Significant Nexus	Basis for Determination that the Functions DO NOT Contribute Significantly to the Chemical, Physical, or Biological Integrity of the (a)(1)-(a)(3) Water. Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to the subject water; discuss data, provide analysis, and summarize how the waters did not have more than a speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water.
N/A	N/A	N/A	N/A

Table 10. Non-Waters/Excluded Waters and Features

Paragraph (b) Excluded Feature/Water Name	Rationale for Paragraph (b) Excluded Feature/Water and Additional Discussion.
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Ditch 1	Ditch 1 is a 362 lf roadside ditch along State Route 850. Ditch 1 was constructed wholly in and draining only uplands. Ditch 1 exhibits an ordinary high water mark and defined bed and banks but does not carry a relatively permanent flow of water. Ditch 1 exhibits ephemeral flow to the tributary system to Barren Creek approximately 530 feet south of the approved JD boundary. Ditch 1 is excluded per (b)(3)(i) Ditch Type A-Ephemeral ditch that is not a relocated tributary or excavated in a tributary.
Ditch 2	Ditch 2 is a 347 lf roadside ditch along Fairview Road. Ditch 2 was constructed wholly in and draining only uplands. Ditch 2 exhibits an ordinary high water mark and defined bed and banks but does not carry a relatively permanent flow of water. Ditch 2 exhibits ephemeral flow to the tributary system via Ditch 1. Ditch 2 is excluded per (b)(3)(i) Ditch Type A-Ephemeral ditch that is not a relocated tributary or excavated in a tributary.
Ditch 3	Ditch 3 is a 1,000 lf roadside ditch along State Route 850. Ditch 3 was constructed wholly in and draining only uplands. Ditch 3 does not carry a relatively permanent flow of water and lacks an ordinary high water mark, defined bed and banks, and wetland characteristics. Ditch 3 does not exhibit a distinct surface water connection to a water of the United States. Ditch 3 is excluded per (b)(3)(iii) Ditch Type C-Ditch that does not flow either directly, or through another water, into a water identified in paragraphs (a)(1)-(a)(3).
Ditch 4	Ditch 4 is a 322 lf roadside ditch along State Route 850. Ditch 4 was constructed wholly in and draining only uplands. Ditch 4 exhibits an ordinary high water mark and defined bed and banks but does not carry a relatively permanent flow of water. Ditch 4 exhibits ephemeral flow to the tributary system to Barren Creek approximately 180 feet north of the approved JD boundary. Ditch 4 is excluded per (b)(3)(i) Ditch Type A-Ephemeral ditch that is not a relocated tributary or excavated in a tributary.

Table 11. Non-Waters/Other

Other Non-Waters of U.S. Feature/Water Name	Rationale for Non-Waters of U.S. Feature/Water and Additional Discussion.
N/A	N/A

Waters_Name	State	Cowardin_Code	HGM_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude	Local_Waterway
Ditch 1	OHIO	R6		Linear	362	FOOT	EXCLDB3I	38.89157000	-82.29725000	
Ditch 2	OHIO	R6		Linear	348	FOOT	EXCLDB3I	38.89111000	-82.29814000	
Ditch 3	OHIO	R6		Linear	1000	FOOT	EXCLDB3III	38.89436000	-82.29701000	
Ditch 4	OHIO	R6		Linear	322	FOOT	EXCLDB3I	38.89640000	-82.29670000	
Wetland A	OHIO	PEM		Area	0.06	ACRE	A8OWB	38.89675000	-82.29680000	
Wetland B	OHIO	PEM		Area	0.19	ACRE	A6BWB	38.89382000	-82.30119000	

Similarly_Situated
Sim_Situated_Aggregated_SPOE
Adjcent_Waters_Sbjct_33USC1344
OHWM_Chg_In_Plant_Community
OHWM_Bed_And_Banks
OHWM_Break_In_Slope
OHWM_Chg_In_Character_Of_Soil
OHWM_Chg_In_Veg_Densty_Maturty
OHWM_Line_Impressed_Texture
OHWM_Destr_Of_Terrestrial_Veg
OHWM_Leaf_Litter_Disturbed
OHWM_Multiple_Flow_Events
OHWM_Scour
OHWM_Sediment_Deposition
OHWM_Sediment_Sorting
OHWM_Shelving
OHWM_Litter_and_Debris_Present
OHWM_Wrack_Line_Present
OHWM_Veg_Matted_Bent_Or_Absent
OHWM_Water_Staining
OHWM_Other_Text

NO NO

YES YES YES YES YES NO

Func_I_Sediment_Trapping
Func_II_Nutrient_Recycling
Func_III_Pollutant_Management
Func_IV_Retntrn_Attenu_Fld_W
Func_V_Runoff_Sto

vtrs
Stage
Contribution_of_Flow
Func_VII_Export_Organic_Matter
Func_VIII_Export_Food_Rsources
Func_IX_Prov_Life_Cycle_Depdht

YES YES YES