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

JD Status: DRAFT

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 06-Nov-2009

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2009-00631-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:

IL - Illinois

County/parish/borough:

Lake

City:

Lat: 42.35423 Long: -87.87891

Universal Transverse Mercator

Folder UTM List

UTM list determined by folder location

NAD83 / UTM zone 38S

Waters UTM List

UTM list determined by waters location

• NAD83 / UTM zone 38S

Name of nearest waterbody:

Name of nearest Traditional Navigable Water (TNW):

Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date:

22-Dec-2009

Field Determination Date(s):

17-Dec-2009

# **SECTION II: SUMMARY OF FINDINGS**

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

## B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

## 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
WOUS 1	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs
Wetland A	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
Wetland G (Headwater Wetland)	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

b. Identify (estimate) size of waters of the U.S. in the review area:
Area: (m²) Linear: (m)
c. Limits (boundaries) of jurisdiction:
based on: [ ] OHWM Elevation: (if known)
2. Non-regulated waters/wetlands: <sup>3</sup>
Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:
SECTION III: CWA ANALYSIS
A. TNWs AND WETLANDS ADJACENT TO TNWs
1.TNW Not Applicable.
2. Wetland Adjacent to TNW Not Applicable.
B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow directly or indirectly into TNW
(i) General Area Conditions:
Watershed size: [] Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches
(ii) Physical Characteristics (a) Relationship with TNW:
Tributary flows directly into TNW.
Tributary flows through [] tributaries before entering TNW. :Number of tributaries
Project waters are [] river miles from TNW.
Project waters are [] river miles from RPW.  Project Waters are [] aerial (straight) miles from TNW.
Project waters are [] aerial(straight) miles from RPW.
Project waters cross or serve as state boundaries.
Explain: Identify flow route to TNW: <sup>5</sup>
Tributary Stream Order, if known:
Order Tributary Name
2 WOUS 1
(b) General Tributary Characteristics:
Tributary is:  Tributary Name Natural Artificial Explain Manipulated Explain
WOUS 1 X
Tributary properties with respect to top of bank (estimate):

Tributary Name   Width (ft)   Depth (ft)   Side Slopes	
WOUS 1 3 1 2:1	
Daimann Aribustanu aukatunta aanna aitianu	
Primary tributary substrate composition:  Tributary Name   Silt   Sands   Concrete   Cobble   Gravel   Muck   Bedrock   V	/egetation Other
WOUS 1 X X	
Tributary (conditions, stability, presence, geometry, gradient):	
Tributary Name Condition\Stability Run\Riffle\Pool C	The Common number common to the second of th
WOUS 1 Somewhat eroded and cut water conveyence created from storm pipe outfall leading to wetland.  Absent	Relatively straight
(c) Flow:	
Tributary Name Provides for Events Per Year Flow Regime	Duration & Volume
WOUS 1 Perennial flow 20 (or greater) Small flow most days, stronger flows of	during storm events
Surface Flow is:	
Tributary Name Surface Flow Characteristics	4
WOUS 1 Discrete and confined Narrow short channel that conveys flow to wetland.	
O houston Flour	
Subsurface Flow: Tributary Name Subsurface Flow Explain Findings Dye (or other) Test	
Tributary Name Subsurface Flow Explain Findings Dye (or other) Test  WOUS 1 Unknown -	
WOOS 1 CHINIOWII	
Tributary has:	
Tributary Name Bed & Banks OHWM Discontinuous Explain	
Unww.	
WOUS 1 X	
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:	
·	
High Tide Line indicated by:	
Not Applicable.	
Mean High Water Mark indicated by: Not Applicable.	
, , , , , , , , , , , , , , , , , , ,	
(iii) Chemical Characteristics:	
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general water	atershed characteristics, etc.).
Tributary Name Explain Identify specific pollutants, if known	
WOUS 1 Water is cloudy and oily. Parking lot run-off containing oils, salt and sedime	ent.
(iv) Biological Characteristics. Channel supports:	
Tributary Name Riparian Corridor Characteristics Wetland Fringe Characteristics	istics Habitat
WOULS 1	
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW	
(i) Physical Characteristics:	
(a) General Wetland Characteristics:	

Properties:

Wetland Name	Size (Acres)	Wetland Type	Wetland Quality	Cross or Serve as State Boundaries. Explain
Wetland A	.96	Emergent	Moderate to low, with non-natives.	
Wetland G (Headwater Wetland)	14.65	Emergent	Moderate	

# (b) General Flow Relationship with Non-TNW:

Flow is:

Wetland Name	 Flow		Explain	:
Wetland A	 Intermittent flow.	Ī	•	
Wetland G (Headwater Wetland)	 Perennial flow.		-	

Surface flow is:

Wetland Name	Flow	Characterístics
Wetland A	Overland sheetflow	Relatively flat wetland conveys water via outlet into channel.
Wetland G (Headwater Wetland)	Overland sheetflow	Headwater wetland receiving water from surrounding landscape and other wetlands.

# Subsurface flow:

	Wetland Name		low Explain Findir	ngs Dye (or other) Test
W	etland A	Unknown	-	· · · · · · · · · · · · · · · · · · ·
W	etland G (Headwater Wetland)		. <del>-</del>	- :

# (c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutt	ing Discrete V Hydrologic C	Connection	ogical Connection	Separated by Berm/Barrier
Wetland A	Yes	- Maria Committee and Committe			-
Wetland G (Headwater Wetla	and) Yes	-			-

(d) Proximity (Relationship) to TNW:

				,
Wetland Name	River Miles From TNW	Aerial Miles From TNW	Flow Direction	Within Floodplain
Wetland A	20-25	15-20	Wetland to navigable waters	50 - 100-year
Wetland G (Headwater Wetland)	20-25	15-20	Wetland to navigable waters	2-year or less

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Wetland Name	Explain	Identify specific pollutants, if known
Wetland A	-	Parking lot oil, salt and sediment.
Wetland G (Headwater Wetland)		Sediment and salt.

(iii) Biological Characteristics. Wetland supports:

Wetland Name	Riparian Buffer		Vegetation	Explain	
Wetland A	-	-	-	-	
Wetland G (Headwater	_	_		Large emergent wetland with open water for	
Wetland)		·	^ :	waterfowl.	

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

# All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

Wetland Name	Flow	Explain
WOUS 1	PERENNIAL	This area transports water from off-site drainage pipes and Wetland A.

# Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m) Size (Area) (m²)
WOUS 1	Relatively Permanent Waters (RPWs) that flow directly or indirectly into	「NWs 45.72 -
Total:		45.72 0

# 3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetland Name	Flow	Explain
Wetland A	SEASONAL	Wetland drains into WOUS 1 during high rain and snow melt events; stores and trickles out over time.
Wetland G (Headwater Wetland)	PERENNIAL	Large headwater wetland produces year-round flow.

Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
Wetland A	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	_	3884.98176
Wetland G (Headwater Wetland)	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	59286.4404
Total:		0	63171.42216

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional wetlands in the review area: Not Applicable.

7. Impoundments of jurisdictional waters:<sup>9</sup>
Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS: 10 Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

# SECTION IV: DATA SOURCES.

# A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Data sheets prepared/submitted by or on behalf of the applicant/consultant	: -	_
Office concurs with data sheets/delineation report	-	-
U.S. Geological Survey Hydrologic Atlas	-	-
U.S. Geological Survey map(s).	· -	-
USDA Natural Resources Conservation Service Soil Survey.	-	-
National wetlands inventory map(s).		•
State/Local wetland inventory map(s):	-	- · · · · · · · · · · · · · · · · · · ·
FEMA/FIRM maps	-	-
Photographs	-	-
Aerial	-	-
Other	· -	-
Applicable/supporting case law	•	-
Other information		-

B. ADDITIONAL COMMENTS TO SUPPORT JD:			
Description			
Site visit on Dec. 17, 2009 with wetland consultant co			
	. 110 . 11 . 11 . 11 . 11 . 11 . 11 . 1	 	

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>2-</sup>For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

 $<sup>^3\</sup>mbox{-Supporting documentation is presented in Section III.F.$ 

<sup>4-</sup>Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>6.</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7&</sup>lt;sub>-thic</sub>

<sup>8-</sup>See Footnote #3.

 $<sup>^{9}</sup>$  -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook

<sup>10-</sup>Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

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

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

A.	REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): June 1, 2009
В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, Elgin Sports Complex LRC -2009-299
c.	PROJECT LOCATION AND BACKGROUND INFORMATION: Elgin Sports Complex State: Illinois County/parish/borough: Kane City: Elgin Center coordinates of site (lat/long in degree decimal format): Lat. 42.01987°N, Long. 88.29718° W.  Universal Transverse Mercator: NAD 83  Name of nearest waterbody: Tributary of the Fox River Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Fox River Name of watershed or Hydrologic Unit Code (HUC): Lower Fox (07120007)  Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  ☐ Office (Desk) Determination. Date: 10/03/2008  ☐ Field Determination. Date(s): 10/03/2008
SE( A.	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: Defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).
B.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):  TNWs, including territorial seas  Wetlands adjacent to TNWs  Relatively permanent waters <sup>2</sup> (RPWs) that flow directly or indirectly into TNWs  Non-RPWs that flow directly or indirectly into TNWs  Wetlands directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs  Impoundments of jurisdictional waters  Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: linear feet: width (ft) and/or acres.  Wetlands: 2.37 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known): unknown.
	2. Non-regulated waters/wetlands (check if applicable): <sup>3</sup> Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain:  .

**SECTION I: BACKGROUND INFORMATION** 

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.
<sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

3 Supporting documentation is presented in Section III.F.

# SECTION III: CWA ANALYSIS

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.I and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

#### 1. TNW

Identify TNW: Pick List.

Summarize rationale supporting determination: As defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).

# 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

# Pick List Watershed size: Drainage area: Pick List Average annual rainfall: inches Average annual snowfall: inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. Tributary flows through **Pick List** tributaries before entering TNW. Project waters are **Pick List** river miles from TNW. Project waters are Pick List river miles from RPW. Project waters are Pick List aerial (straight) miles from TNW. Project waters are Pick List aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW5: Tributary stream order, if known:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tributary Characteristics (check all that apply):  Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate):  Average width: feet  Average depth: feet  Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:  Presence of run/riffle/pool complexes. Explain:  Tributary geometry: Pick List  Tributary gradient (approximate average slope):  %
(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
	Surface flow is: Pick List. Characteristics: .
	Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
	Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list):  Discontinuous OHWM. <sup>7</sup> Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):  High Tide Line indicated by:  oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):  Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
Cha	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: . ntify specific pollutants, if known:

(iii)

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

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(iv)		ogical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
2. Cha	racte	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i)		Sical Characteristics:  General Wetland Characteristics: Properties: Wetland size: 2.37 acres Wetland type. Explain: Shallow marsh and wet to wet-mesic lowland hardwoods; disturbed fresh wet meadow. Wetland quality. Explain: Low Vegetative Quality (FQI of 14.08 and 7.27). Project wetlands cross or serve as state boundaries. Explain: Not Applicable.
collects i	basi n the	General Flow Relationship with Non-TNW: Flow is: Perennial flow. Explain: The western-most wetland (Soil Sample #3 wetland) drains to a golf course wetland n, then to another wetland detention basin, flow into wetlands and a stream that is tributary to the Fox River. Stormwater wetland/north-south swale (Soil Sample #1 wetland), flows via a 36-inch culvert to the eastern-most wetland (Soil Sample o storm sewer, and discharges to the Fox River.
		Surface flow is: Discrete and confined Characteristics: Overland sheet flow to wetlands, to concentrated ponds, to channel or storm sewer, to Fox River.
		Subsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
	vetlan	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: Central wetlands (Soil Sample #1 wetland) connected to adds (Soil Sample #4 wetland) and Fox River via storm sewer. ☐ Ecological connection. Explain: Western wetlands (Soil Sample #3 wetland) connected to additional wetlands, ox River. ☐ Separated by berm/barrier. Explain:
	(d)	Proximity (Relationship) to TNW Project wetlands are 1-2 river miles from TNW. Project waters are 1 (or less) aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 500-year or greater floodplain.
(ii)	Cha	emical Characteristics:  aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: water is clear.   artify specific pollutants, if known: Unknown.
(iii meadow		logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Shallow marsh and wet to wet-mesic lowland hardwoods; disturbed fresh wet
incadow		Habitat for:    Federally Listed species. Explain findings:   Fish/spawn areas. Explain findings:   Other environmentally-sensitive species. Explain findings:   Aquatic/wildlife diversity. Explain findings:
3. Ch	All	wetland(s) being considered in the cumulative analysis: 3 proximately (2.37) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Name/ID	Directly abuts? (Y/N)	Size (in acres)	Name/ID	Directly abuts? (Y/N)	Size (in acres)
western wetland central wetland eastern wetland	N N N	0.27 1.41 0.69			

Summarize overall biological, chemical and physical functions being performed:

# C. SIGNIFICANT NEXUS DETERMINATION

May 2009).

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# D. I

	TERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL AT APPLY):
1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.
2.	<ul> <li>RPWs that flow directly or indirectly into TNWs.</li> <li>☑ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Applies to western wetland (Soil Sample #3 wetland). National Weather Service Climate Data - 05/27/2009 Chicago-O'Hare Report attached. USGS precipitation data attached (May 2008 to May 2009).</li> <li>☑ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: Applies to central wetlands (Soil Sample #1 wetland) and eastern wetlands (Soil Sample #4 wetland). National</li> </ul>

Weather Service Climate Data -05/27/2009 Chicago-O'Hare Report attached. USGS precipitation data attached (May 2008 to

<ul> <li>Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.         □ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.     </li> <li>Provide estimates for jurisdictional waters within the review area (check all that apply):</li></ul>
Tributary waters: linear feet width (ft).  Other non-wetland waters: acres. Identify type(s) of waters:  4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:  Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland Delineation Report showing wetland boundaries and the proximity of the Fox River is
<ul> <li>Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.</li> <li>Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:</li> <li>Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland Delineation Report showing wetland boundaries and the proximity of the Fox River is</li> </ul>
seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland Delineation Report showing wetland boundaries and the proximity of the Fox River is
Provide acreage estimates for jurisdictional wetlands in the review area: 2.37 acres.
5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
Provide estimates for jurisdictional wetlands in the review area: acres.
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or  Demonstrate that water meets the criteria for one of the categories presented above (I-6), or  Demonstrate that water is isolated with a nexus to commerce (see E below).
ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10  which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:  Other factors. Explain:  Identify water body and summarize rationale supporting determination:

E.

<sup>&</sup>lt;sup>8</sup>See Footnote # 3.

<sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

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Pro	vide estimates for jurisdictional waters in the review area (check all that apply):	
	Tributary waters: linear feet width (ft).	
	Other non-wetland waters: acres.	
	Identify type(s) of waters: .	
	Wetlands: acres.	
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):	
•	If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers	
	Wetland Delineation Manual and/or appropriate Regional Supplements.	
	Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.	
	Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on	the
	"Migratory Bird Rule" (MBR).	tiic
	Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:	
	Other: (explain, if not covered above):	
	Other, (explain, if not covered above).	
	Position and the state of the s	
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR	
	factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best profession	onai
	judgment (check all that apply):	
	Non-wetland waters (i.e., rivers, streams): linear feet width (ft).	
	Lakes/ponds: acres.	
	Other non-wetland waters: acres. List type of aquatic resource: .	
	Wetlands: acres.	
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where	such
	a finding is required for jurisdiction (check all that apply):	
	Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).	
	Lakes/ponds: acres.	
	Other non-wetland waters: acres. List type of aquatic resource: .	
	Wetlands: acres.	
SE	CTION IV: DATA SOURCES.	
Α.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where chec	cked
	and requested, appropriately reference sources below):	
	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Surveyed Wetland Boundary.	
	Data sheets prepared/submitted by or on behalf of the applicant/consultant.	
	☑ Office concurs with data sheets/delineation report.	
	Office does not concur with data sheets/delineation report.	
	Data sheets prepared by the Corps: .	
	Corps navigable waters' study: .	
	U.S. Geological Survey Hydrologic Atlas: Floods in Elgin Quadrangle, Illinois, HA-147.	
	USGS NHD data.	
	USGS 8 and 12 digit HUC maps.	
	U.S. Geological Survey map(s). Cite scale & quad name:	
	National wetlands inventory map(s). Cite name: US Fish & Wildlife ServiceWetlands Online Mapper.	
	State/Local wetland inventory map(s): Kane County ADID, Pick List,	
	FEMA/FIRM maps: FIRM 17089C0168F.	
	USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Kane County, Illinois (2003).  National wetlands inventory map(s). Cite name: US Fish & Wildlife ServiceWetlands Online Mapper.  State/Local wetland inventory map(s): Kane County ADID, Pick List,  FEMA/FIRM maps: FIRM 17089C0168F.  100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)  Photographs:  Aerial (Name & Date): Kane County Aerial Photograph, 2007.	
	Photographs: Aerial (Name & Date): Kane County Aerial Photograph, 2007.	
	or \( \sum \) Other (Name & Date): Site Photographs, 10/03/2008.	
	Previous determination(s). File no. and date of response letter:  Applicable/sympactics associated property of State of III. averal. Scatt v. Hoffman, No. B. CIV. 76. 45. (S. D. III. Jan. 20, 1970).	
	Applicable/supporting case law: People of State of III. ex rel. Scott v. Hoffman, No. P-CIV-76-45, (S.D.III. Jan. 20, 1979)	
	Applicable/supporting scientific literature:  Other information (please specify): National Weather Service Climate Data -05/27/2008 Chicago-O'Hare Report. USGS	
	LIXI - Littler information (please specify): National Weather Nervice Climate Data 205/7//700X Chicago Climate Report - USGS	
	precipitation data (May 2008 to May 2009).	

# **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

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

JD Status: DRAFT

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 28-Dec-2009

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2010-00011-JD1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:

IL - Illinois

County/parish/borough:

Will

City: Lat:

41.6084

Long:

-88.2097

**Universal Transverse Mercator** 

Folder UTM List

UTM list determined by folder location

NAD83 / UTM zone 37S

Waters UTM List

UTM list determined by waters location

Name of nearest waterbody:

Name of nearest Traditional Navigable Water (TNW):

Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD

# D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 11-Jan-2010

Field Determination Date(s):

# **SECTION II: SUMMARY OF FINDINGS**

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name

Water Type(s) Present

DuPage River Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

c. Limits (boundaries) of jurisdiction:
based on: [] OHWM Elevation: (if known)
2. Non-regulated waters/wetlands: <sup>3</sup>
Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:
SECTION III: CWA ANALYSIS
A. TNWs AND WETLANDS ADJACENT TO TNWs
1.TNW Not Applicable.
2. Wetland Adjacent to TNW Not Applicable.
B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow directly or indirectly into TNW
(i) General Area Conditions:  Watershed size: []  Drainage area: []  Average annual rainfall: inches  Average annual snowfall: inches
(ii) Physical Characteristics (a) Relationship with TNW:
Tributary flows directly into TNW.  Tributary flows through [] tributaries before entering TNW. :Number of tributaries
Project waters are [] river miles from TNW.  Project waters are [] river miles from RPW.  Project Waters are [] aerial (straight) miles from TNW.
Project waters are [] aerial(straight) miles from RPW.
Project waters cross or serve as state boundaries.  Explain:
Identify flow route to TNW: <sup>5</sup>
Tributary Stream Order, if known: Order Tributary Name
1 DuPage River
(b) General Tributary Characteristics: Tributary is:
Tributary Name Natural Artificial Explain Manipulated Explain  DuPage River X
Tributary properties with respect to top of bank (estimate): Tributary Name Width (ft) Depth (ft) Side Slopes DuPage River 100 10 3:1

Primary tributary substrate composition:  Tributary Name Silt Sands Concrete Cobble Gravel Muck Bedrock Vegetation Other  DuPage River X X X X
Tributary (conditions, stability, presence, geometry, gradient):  Tributary Name
(c) Flow: Tributary Name Provides for Events Per Year Flow Regime Duration & Volume DuPage River Perennial flow 20 (or greater) River flows year-round.
Surface Flow is:  Tributary Name Surface Flow Characteristics  DuPage River Discrete and confined Defined bed and banks.
Subsurface Flow: Tributary Name   Subsurface Flow   Explain Findings   Dye (or other) Test DuPage River   Unknown -
Tributary has:  Tributary Name Bed & Banks OHWM Discontinuous OHWM <sup>7</sup> Explain  DuPage River X
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).
Tributary Name Explain Identify specific pollutants, if known  DuPage River Tributary is typical for the highly developed urban area, so is discolored and will occassionally have an oily sheen.  Identify specific pollutants, if known  Road salts, grease, oil; sediment, lawn chemicals.
(iv) Biological Characteristics. Channel supports:  Tributary Name Riparian Corridor Characteristics Wetland Fringe Characteristics Habitat  DuPage River
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.
(b) General Flow Relationship with Non-TNW:

NW.	

Not Applicable.

# Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

#### (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

### (d) Proximity (Relationship) to TNW:

Not Applicable.

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable.

#### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

Wetland Name	Flow		Explain	
DuPage River	PERENNIAL	The DuPage River	is a large river that flow	ws year-round.

# Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear	
	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNV		· · · · · · · · · · · · · · · · · · ·
Total:		15.24	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

7. Impoundments of jurisdictional waters:9

Not Applicable

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup> Not Applicable.

Identify water body and summarize rationale supporting determination:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

SECTION IV: DATA SOURCES.

Α.:	SUPPO	RTING	DATA.	Data	reviewe	d for JD

(listed items shall be included in	n case file and, where checked a	nd requested, appro	priately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Data sheets prepared/submitted by or on behalf of the applicant/consultant		•
Office concurs with data sheets/delineation report	-	-
U.S. Geological Survey Hydrologic Atlas		-
USGS 8 and 12 digit HUC maps	. <del>-</del>	
U.S. Geological Survey map(s).	-	-
FEMA/FIRM maps	-	
Photographs	-	· -
Aerial	-	
Other	:	- · · · · · · · · · · · · · · · · · · ·
Applicable/supporting case law	-	-
Other information	•	

# **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Description

The DuPage River is a known RPW in the region; also, I have been to this area for past investigations.

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>2-</sup>For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>4-</sup>Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the and West.

<sup>5-</sup>Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>6-</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

7-Ibid.

<sup>&</sup>lt;sup>8</sup>-See Footnote #3.

 $<sup>^{9}</sup>$  -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>10-</sup>Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

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

SECTION I: BACKGROUND INFORMA	TION
A. REPORT COMPLETION DATE FOR APPR	OVED JURISDICTIONAL DETERMINATION (JD): 19-Oct-2009
B. DISTRICT OFFICE, FILE NAME, AND NUM	IBER: Chicago District, LRC-2009-00595-JD1
C. PROJECT LOCATION AND BACKGROUN	D INFORMATION:
State : County/parish/borough: City:	IL - Illinois DuPage
Lat:	41.86771
Long: Universal Transverse Mercator	-88.16116 Folder UTM List
	UTM list determined by folder location  NAD83 / UTM zone 37S
	Waters UTM List UTM list determined by waters location
Name of nearest waterbody:	NAD83 / UTM zone 37S
Name of nearest Traditional Navigable Water Name of watershed or Hydrologic Unit Code	
	/or potential jurisdictional areas is/are available upon request.
	n sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.
D. REVIEW PERFORMED FOR SITE EVALUA	ATION:
✓ Office Determination Date: 11-Dec-200	
Field Determination Date(s): 08-Dec-	-2009
<b>*</b>	,
SECTION II: SUMMARY OF FINDINGS	
A. RHA SECTION 10 DETERMINATION OF J	URISDICTION
There [] "navigable waters of the U.S." within	Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.
Waters subject to the ebb and flo	ow of the tide.
	ave been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain:	
B. CWA SECTION 404 DETERMINATION OF	JURISDICTION. ater Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.
There [] waters of the O.S. within Clean wa	ster Act (CVVA) jurisdiction (as defined by 33 CFA part 326) in the review area.
1. Waters of the U.S.	
a. Indicate presence of waters of U.S. in revie	
	ater Type(s) Present s (RPWs) that flow directly or indirectly into TNWs
b. Identify (estimate) size of waters of the U.S	. in the review area:
Area: (m²)	
Linear: (m)	
c. Limits (boundaries) of jurisdiction:	
based on: [] OHWM Elevation: (if known)	
2. Non-regulated waters/wetlands: <sup>3</sup>	
· ·	nds were assessed within the review area and determined to be not jurisdictional. Explain:
SECTION III: CWA ANALYSIS	
A. TNWs AND WETLANDS ADJACENT TO T	NWs ,
1.TNW	
Not Applicable.	
2. Wetland Adjacent to TNW	
Not Applicable.	
B. CHARACTERISTICS OF TRIBUTARY (THAT	T IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow direct	ctly or indirectly into TNW
(i) General Area Conditions:	
Watershed size: [ ] Drainage area: [ ]	
Average annual rainfall: inches	
Average annual snowfall: inches	
(ii) Physical Characteristics (a) Relationship with TNW:	
Tributary flows directly into TNW.	
Tributary flows through [] tributaries before :Number of tributaries	entering TNW.
Project waters are [] river miles from TNW.  Project waters are [] river miles from RPW.	
Project Waters are [] aerial (straight) miles from	n TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

# Tributary Stream Order, if known:

Order	Tributary Name
1	Winfield Creek

# (b) General Tributary Characteristics: Tributary is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
Winfield Creek	Х	-	-	-	-

#### Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes	
Winfield Creek	15	3	3:1	

## Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
Winfield Creek	-	-	-	-	-	-		-	X

#### Other Explained:

<b>Tributary Name</b>	Other Explained
Winfield Creek	Unknown, could not see bottom.

Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)	
Winfield Creek	Stable, with herbs, trees and shrubs along the bank.	Absent in this stretch.	Relatively straight	1	

# (c) Flow:

<b>Tributary Name</b>	Provides for	<b>Events Per Year</b>	Flow Regime	<b>Duration &amp; Volume</b>	
Winfield Creek	Perennial flow	20 (or greater)	Creek flows year-round.	-	

## Surface Flow is:

Tributary Name	Surface Flow	Characteristics	
Winfield Creek	Discrete and confined	Creek flows in defined banks.	

# Subsurface Flow:

	<b>Tributary Name</b>	Subsurface Flow	Explain Findings	Dye (or other) Test
ſ	Winfield Creek	No	-	-

Tributary has:

Tributary Name	Bed & Banks	онwм	Discontinuous OHWM <sup>7</sup>	Explain
Winfield Creek	X	Х	-	-

Tributaries with OHWM<sup>6</sup> - (as indicated above)

Tributary Name	онwм	Clear	Litter	Changes in Soil	Destruction Vegetation	Shelving	Wrack Line	Matted\Absent Vegetation	Sediment Sorting	Leaf Litter	Scour	Sediment Deposition	Flow Events	Water Staining	Changes Plant	Other
Winfield Creek	Х	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

### High Tide Line indicated by:

Not Applicable.

# Mean High Water Mark indicated by: Not Applicable.

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
Winfield Creek	Water color is cloudy.	Sediment

(iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
Winfield Creek	X	25 foot vegetated corridor	-	-	-

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics: (a) General Wetland Characteristics:

Properties: Not Applicable.

(b) General Flow Relationship with Non-TNW:

Flow is: Not Applicable.

Surface flow is: Not Applicable

Subsurface flow:

Not Applicable

(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.

(d) Proximity (Relationship) to TNW: Not Applicable.

(ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

(iii) Biological Characteristics. Wetland supports: Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable

Summarize overall biological, chemical and physical functions being performed:

Not Applicable

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine rexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

2. RPWs that flow directly or indirectly into TNWs:

Welland Name	FIOW	Expiairi
Winfield Creek	PERENNIAL	Strong flowing creek shows up in multiple aerials.

Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m <sup>2</sup> )
Winfield Creek	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	30.48	-
Total:		30.48	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable

7. Impoundments of jurisdictional waters:9

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:10

Not Applicable

Identify water body and summarize rationale supporting determination:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):
Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Not Applicable.

#### SECTION IV: DATA SOURCES. A. SUPPORTING DATA. Data reviewed for JD (listed items shall be included in case file and, where checked and requested, appropriately reference below): **Data Reviewed** Source Label **Source Description** -- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant --Data sheets prepared/submitted by or on behalf of the applicant/consultant ----Office concurs with data sheets/delineation report --U.S. Geological Survey Hydrologic Atlas --U.S. Geological Survey map(s). -- USDA Natural Resources Conservation Service Soil Survey. --National wetlands inventory map(s). --State/Local wetland inventory map(s): --FEMA/FIRM maps --Photographs ----Aerial --Other information

#### B. ADDITIONAL COMMENTS TO SUPPORT JD:

Description
Site visit to confirm flow on 08 Dec 2009.

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>2-</sup>For purposes of this form, an RPW is defined as a tribulary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

 $<sup>^{3}\</sup>mbox{-Supporting documentation is presented in Section III.F.$ 

<sup>4-</sup>Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>6-</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the removal by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

7-lbid.

<sup>8-</sup>See Footnote #3.

<sup>9 -</sup>To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>10</sup>\_Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

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

#### **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 12-Jan-2010

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2009-00607-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

IL - Illinois

County/parish/borough:

McHenry

City:

Chemung Township

Lat:

42.4658

Long:

-88.65735

Universal Transverse Mercator

Folder UTM List

UTM list determined by folder location

• NAD83 / UTM zone 38S

Waters UTM List

UTM list determined by waters location

• NAD83 / UTM zone 38S

Name of nearest waterbody:

Piscasaw Creek

Name of nearest Traditional Navigable Water (TNW): Rock River Name of watershed or Hydrologic Unit Code (HUC): Piscasaw

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

# D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 12-Jan-2010

Field Determination Date(s):

#### **SECTION II: SUMMARY OF FINDINGS**

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign

# Explain:

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

# 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
LRC-2009-00607 Piscasaw Creek	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs
LRC-2009-00607 Wetland 1	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
LRC-2009-00607 Wetland 2	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
LRC-2009-00607 Wetland 3	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
LRC-2009-00607 Wetland 4	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

b. Identify (estimate) size of waters of the U.S. in the review area:  Area: (m²)  Linear: (m)	
c. Limits (boundaries) of jurisdiction:  based on: 1987 Delineation Manual.  OHWM Elevation: (if known)	
2. Non-regulated waters/wetlands: <sup>3</sup> Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:	
SECTION III: CWA ANALYSIS  A. TNWs AND WETLANDS ADJACENT TO TNWs	
1.TNW Not Applicable.	
2. Wetland Adjacent to TNW Not Applicable.	
B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):	
1. Characteristics of non-TNWs that flow directly or indirectly into TNW  (i) General Area Conditions:  Watershed size: []  Drainage area: []  Average annual rainfall: inches  Average annual snowfall: inches	
(ii) Physical Characteristics (a) Relationship with TNW: Tributary flows directly into TNW.	
Tributary flows through [] tributaries before entering TNW. :Number of tributaries	
Project waters are [] river miles from TNW.  Project waters are [] river miles from RPW.  Project Waters are [] aerial (straight) miles from TNW.  Project waters are [] aerial(straight) miles from RPW.	
Project waters cross or serve as state boundaries.  Explain: Identify flow route to TNW: <sup>5</sup>	
Tributary Stream Order, if known: Order Tributary Name - LRC-2009-00607 Piscasaw Creek	
(b) General Tributary Characteristics: Tributary is:	
Tributary Name Natural Artificial Explain Manipulated Explain  LRC-2009-00607 Piscasaw Creek X The creek has been straightened	
Tributary properties with respect to top of bank (estimate):	

**Tributary Name** Width (ft) Depth (ft) Side Slopes LRC-2009-00607 Piscasaw Creek 4:1 (or greater) Primary tributary substrate composition: Tributary Name Silt Sands Concrete Cobble Gravel Muck LRC-2009-00607 Piscasaw Creek Tributary (conditions, stability, presence, geometry, gradient): Condition\Stability Run\Riffle\Pool Complexes Tributary Name Geometry Gradient (%) LRC-2009-00607 Piscasaw Creek Stable Relatively straight (c) Flow: **Tributary Name** Provides for Events Per Year Flow Regime **Duration & Volume** LRC-2009-00607 Piscasaw Creek Perennial flow Continuous flow stream Surface Flow is: Surface Flow Characteristics **Tributary Name** LRC-2009-00607 Piscasaw Creek Discrete and confined Subsurface Flow: **Tributary Name** Subsurface Flow | Explain Findings | Dye (or other) Test LRC-2009-00607 Piscasaw Creek Unknown Tributary has: Discontinuous Bed & Banks OHWM **Tributary Name** Explain OHWM<sup>7</sup> LRC-2009-00607 Piscasaw Creek If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction: High Tide Line indicated by: Not Applicable. Mean High Water Mark indicated by: Not Applicable. (iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). **Tributary Name** Explain Identify specific pollutants, if known LRC-2009-00607 Piscasaw Creek clear (iv) Biological Characteristics. Channel supports: Tributary Name Riparian Corridor Characteristics Wetland Fringe LRC-2009-00607 Piscasaw Creek 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (i) Physical Characteristics: (a) General Wetland Characteristics: Properties:

Wetland Name Siz	 te (Acres) Wetlan	d Type Wetland Q	uality Cross	or Serve as State I	Boundaries. E	xplain
LRC-2009-00607 Wetland 1 .27	Emerge	nt FQI 12.3	-			
LRC-2009-00607 Wetland 2 .03	emerger	nt 13.3	-			
LRC-2009-00607 Wetland 3 05	Emerge	nt fringe FQI 13.3	·· -			
LRC-2009-00607 Wetland 4 .02	Emerge	nt fringe FQI 13.3	· · · · -			

# (b) General Flow Relationship with Non-TNW: Flow is:

Wetland Name	Flow	Explain
LRC-2009-00607 Wetland 1	Perennial flow.	-
LRC-2009-00607 Wetland 2	Perennial flow.	-
LRC-2009-00607 Wetland 3	Perennial flow.	-
LRC-2009-00607 Wetland 4	Perennial flow.	- "

# Surface flow is:

		,	
	Wetland Name	Flow	Characteristics
:	LRC-2009-00607 Wetland 1	Discrete and confined	•
	LRC-2009-00607 Wetland 2	Discrete and confined	
	LRC-2009-00607 Wetland 3	-	-
	LRC-2009-00607 Wetland 4	Discrete and confined	

# Subsurface flow:

Wetland Name	Subsurface Flow	<b>Explain Findings</b>	Dye (or other) Test
LRC-2009-00607 Wetland 1	Unknown	•	
LRC-2009-00607 Wetland 2	Unknown	-	- · · · · · ·
LRC-2009-00607 Wetland 3	Unknown		• • • • • • • • • • • • • • • • • • •
LRC-2009-00607 Wetland 4		-	- · · · · · · · · · · · · · · · · · · ·

# (c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutting	Discrete Wetland Hydrologic Connection	Ecological Connection	Separated by Berm/Barrier
LRC-2009-00607 Wetland 1	Yes	-	-	-
LRC-2009-00607 Wetland 2	Yes	-	•	-
LRC-2009-00607 Wetland 3	Yes	-	-	•
LRC-2009-00607 Wetland 4	Yes	-	-	-

# (d) Proximity (Relationship) to TNW:

Wetland Name	River Miles Aerial Miles From TNW From TNW	Flow Direction	Within Floodplain
LRC-2009-00607 Wetland 1	30 (or more) 30 (or more)	Wetland to navigable waters	-
LRC-2009-00607 Wetland 2	30 (or more) 30 (or more)	Wetland to navigable waters	•
LRC-2009-00607 Wetland 3	30 (or more) 30 (or more)	Wetland to navigable waters	-
LRC-2009-00607 Wetland 4	30 (or more) 30 (or more)	Wetland to navigable waters	-

(ii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Wetland Name	Explain	Identify specific pollut	ants, if kno	wn
LRC-2009-00607 Wetland 1	: <b>-</b>	-		. ,
LRC-2009-00607 Wetland 2		-		
LRC-2009-00607 Wetland 3	· -	-		1
LRC-2009-00607 Wetland 4		-		

#### (iii) Biological Characteristics. Wetland supports:

Wetland Name	Riparian Buf	fer Ch	aracteristics V	egetatio	n Explain
LRC-2009-00607 Wetland 1	X			-	
LRC-2009-00607 Wetland 2	X	-		-	-
LRC-2009-00607 Wetland 3	X				· <u>-</u>
LRC-2009-00607 Wetland 4	X				-

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis: Not Applicable.

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

Wetland Name	Flow	Explain
LRC-2009-00607 Piscasaw Creek	PERENNIAL	Solid line on USGS

#### Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
LRC-2009-00607 Piscasaw Creek	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	-	<b>3</b> 19.701624
Total:		:_0	319.701624

# 3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetland Name	Flow	Explain	
LRC-2009-00607 Wetland 1	PERENNIAL	Wetlands directly abutting RPW	
LRC-2009-00607 Wetland 2	PERENNIAL	Flow from the north side of Lawrence Road along Wetland 1 discharges to the south and into the drainage ditch identified as wetland 2. Wetland 2 is an emergent wetland swale that takes water from wetland 1 and discharges back into Piskasaw Creek approximately 1800 feet downstream.	
LRC-2009-00607			

Wetland 3	PERENNIAL	Western fringe wetland abutting Piscasaw Creek
LRC-2009-00607 Wetland 4	PERENNIAL	Weltand abutting east side of Piscasaw Creek on south side Lawrence Road

# Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Type	Size (Linear) (m)	Size (Area) (m²)
LRC-2009-00607 Wetland	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs		1072.41684
LRC-2009-00607 Wetland 2	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs		137.593104
LRC-2009-00607 Wetland 3	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	· -	190.202232
LRC-2009-00607 Wetland 4	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	72.843408
Total:	1	0	1473.055584

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional wetlands in the review area: Not Applicable.

7. Impoundments of jurisdictional waters:<sup>9</sup>
Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS: 10 Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

# F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

ттог / гррпоцые

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

# SECTION IV: DATA SOURCES.

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description  Delineated wetland boundary with data point locations	
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	Aerial - Data Points		
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	Photos	Photos from data point locations	
<ul> <li>Data sheets prepared/submitted by or on behalf of the applicant/consultant</li> </ul>	•		
Office concurs with data sheets/delineation report	Data sheets	•	
-U.S. Geological Survey map(s).	10-foot contour map		
Photographs	· · · · · · · · · · · · · · · · · · ·		
Aerial	1939 aerial	· · · · · · · · · · · · · · · · · · ·	

# B. ADDITIONAL COMMENTS TO SUPPORT JD:

Not Applicable.

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>2-</sup>For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>4-</sup>Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>6-</sup>A natural or man-made discontinuity in the OHVM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHVM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>8-</sup>See Footnote #3.

<sup>9 -</sup>To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>10-</sup>Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

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

# SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 08-Dec-2009

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2008-00608-JD3

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: County/parish/borough: IL - Illinois Will

City:

41.58998

Lat: Long:

Universal Transverse Mercator

Folder UTM List
UTM list determined by folder location

NAD83 / UTM zone 37S

Waters UTM List UTM list determined by waters location

NAD83 / UTM zone 37S

Name of nearestwaterbody:

Name of nearestTraditional Navigable Water (TNW):

Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date

Field Determination Date(s):

30-Jul-2009

# SECTION II: SUMMARY OF FINDINGS

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

#### Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

### a. Indicate presence of waters of U.S. in review area:1

Water Name Water Type(s) Present

LRC-2008-608 WL 1 Non-RPWs that flow directly or indirectly into TNWs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)

Linear: (m)

#### c. Limits (boundaries) of jurisdiction:

[]

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

Not Applicable

# 2. Wetland Adjacent to TNW Not Applicable.

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

51 acres Watershed size: Drainage area: 51 acres Average annual rainfall: 32 inches Average annual snowfall: 40 inches

```
(ii) Physical Characteristics (a) Relationship with TNW:
    Tributary flows directly into TNW.
    Tributary flows through [] tributaries before entering TNW.
 Number of tributaries
Project waters are 5-10 river miles from TNW.
Project waters are 1 (or less) river miles from RPW.
Project Waters are 2-5 aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial(straight) miles from RPW.
      Project waters cross or serve as state boundaries
Identify flow route to TNW:<sup>5</sup>
The stream flows into a tributary of North Fraction Run, then into North Fraction Run, which flows to Fraction Run before draining to the I&M Canal, a TNW.
Tributary Stream Order, if known:
 Order
           Tributary Name
         LRC-2008-608 WL 1
(b) General Tributary Characteristics:
                       Natural Artificial Explain Manipulated Explain
  Tributary Name
 LRC-2008-608 WL 1
Tributary properties with respect to top of bank (estimate):
  Tributary Name Width (ft) Depth (ft) Side Slopes
 LRC-2008-608 WL 1 2
                                    .5
Primary tributary substrate composition:
 Tributary Name Silt Sands Concrete Cobble Gravel Muck Bedrock Vegetation Other LRC-2008-608 WL 1 X
Tributary (conditions, stability, presence, geometry, gradient):
 Tributary Name Condition|Stability Run|Riffle\Pool Complexes Geometry Gradient (%)
LRC-2008-608 WL 1 stable none Geometry Gradient (%)
(c) Flow:
   Tributary Name
                                Provides for
                                                         Events Per Year Flow Regime Duration & Volume
 LRC-2008-608 WL 1 Intermittent but not seasonal flow 20 (or greater)
Surface Flow is:
                       Surface Flow Characteristics
  Tributary Name
 LRC-2008-608 WL 1 Discrete
Subsurface Flow:
  Tributary Name
                       Subsurface Flow Explain Findings Dye (or other) Test
 LRC-2008-608 WL 1 Unknown
                                                  Discontinuous
  Tributary Name Bed & Banks OHWM
                                                                     Explain
                                                      OHWM<sup>7</sup>
 LRC-2008-608 WL 1
Tributaries with OHWM6 - (as indicated above)
                                                                           Shelving Wrack Line Matted\Absent
                                                 Changes Destruction
                                                                                                                           Sediment
                                                                                                                                                                Sediment
                                                                                                                                                                                               Wat
 Tributary Name OHWM Clear Litter
                                                                                                                                       Leaf Litter Scour
                                                                                                                                                                             Flow Events
                                                                                                          Vegetation
                                                                                                                            Sorting
                                                                                                                                                               Deposition
                                                             Vegetation
                                                  in Soil
 LRC-2008-608
If factors other than the OHWM were used to determine lateral extent of CWAjurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by:
(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).
                                                                                                                  Identify specific pollutants, if known
  Tributary Name Explain
 LRC-2008-608 WL, 1 Water color is clear and does not appear to be polluted, nor oily. The watershed is agricultural.
```

#### (iv) Biological Characteristics. Channel supports:

Tributary Name Riparian Corridor Characteristics Wetland Fringe Characteristics Habitat LRC-2008-608 WL 1 wooded, 25 feet

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

# (i) Physical Characteristics:

(a) General Wetland Characteristics: Properties: Not Applicable.

(b) General Flow Relationship with Non-TNW:

Flow is: Not Applicable

Surface flow is: Not Applicable.

Subsurface flow:

(c) Wetland Adjacency Determination with Non-TNW:

Not Applicable

(d) Proximity (Relationship) to TNW: Not Applicable.

(ii) Chemical Characteristics:

haracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

(iii) Biological Characteristics, Wetland supports:

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Summarize overall biological, chemical and physical functions being performed:

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they sign chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duretion, and frequing the proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any special (e.g. between a tributary and its adjacent wetlands of a floodplain is not solely determinative of significant nexus based solely on any special (e.g. between a tributary and its adjacent wetlands of a floodplain is not solely determinative of significant nexus based solely on any special nexus and the function of the following situations, as a significant nexus based solely on any special nexus and the function of the following situations, as a significant nexus based solely on any special nexus and the function of the following situations are significant nexus based solely on any special nexus and the function of the function of

Findings for: LRC-2008-608 WL 1

Findings for: LRC-2008-608 WL 1
Wetland 1 is a small wooded stream with associated wetlands that flows southeast into a tributary of Fraction Run Creek. Fraction Run Creek is an intermittent drainageway described on the USGS topographic of the drainageway averages 3 feet in width and its banks average 1 - 3 feet in height. Water depth has been observed at approximately 6" deep. The bed of the drainageway is silty material. The stream appea 2005 senial photograph. Water flowing in the stream eventually flows to the I&M Canal via a tributary to North Fraction Creek, North Fraction Creek. Downstream from Wetland 1, approximate 1 Tributary to North Fraction Creek and Fraction Creek. Downstream from Wetland 1, approximate 1 decrease of sedimentation, pollutants, flooding and nutrients, in addition to the habitat provided by the stream, provides a positive effect to the downstream relatively permanent waters and traditional navigable combination with other area wetlands and inbutaries, significantly affect the chemical, physical and biological integrity of the I&M Canal. Stormwater storage provided by Wetland 1 affects the frequency and expension of the IAM Canal supports bass, crappie, bluegill, carp, catfish and bullhead habitat. These factors contribute to the finding of a significant nexus between the Wetland.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS, THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable

2. RPWs that flow directly or indirectly into TNWs:

Provide estimates for jurisdictional waters in the review area;

3. Non-RPWs that flow directty or indirectty into TNWs:8 Not Applicable

Provide estimates for jurisdictional waters in the review area:

Tributary Name Type Size (Linear) (m) Size (Area) (m²) LRC-2008-608 WL 1 Non-RPWs that flow directly or indirectly into TNWs 687.96552 687.96552 Total:

. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

4. Wetlands on Not Applicable.

Provide acreage estimates forjurisdictional wetlands in the review area: Not Applicable

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Provide acreage estimates forjurisdictional wetlands in the review area:

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs: Not Applicable

Provide estimates for jurisdictional wetlands in the review area:

7. Impoundments of jurisdictional waters:9

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, I WATERS:10

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area:

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain)

Provide acreage estimates formon-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered irrigated agriculture), using best professional judgment: Not Applicable.

Provide acreage estimates formon-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA, Data reviewed for JD (Issted Rems shell be included in case file and, where checked and requested, appropriately reference below).

Data Reviewed Source Label Source Description -Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant --Data sheets prepared/submitted by or on behalf of the applicant/consultant ---Office concurs with data sheets/delineation report -- U.S. Geological Survey Hydrologic Atlas ----USGS 8 and 12 digit HUC maps -U.S. Geological Survey map(s). -USDA Natural Resources Conservation Service Soil Survey. -National wetlands inventory map(s). -FEMA/FIRM maps -Photographs ---Aerial

# B. ADDITIONAL COMMENTS TO SUPPORT JD:

<sup>1-</sup>Boxes checked below shall be supported by completing the eppropriate sections in Section III below

<sup>2-</sup>For purposes of this form, en RPW is defined as a tributary that is not a TNW and thet typically flows year-round or has continuous flow at least "seasonelly" (e.g., typically 3 months).

<sup>3-</sup>Supporting documentation is presented in Section III.F.

<sup>4-</sup>Note that the Instructional Guidebook contains additional information regarding swales, ditches, weshes, and erosional feetures generally and in the and West

<sup>5-</sup>Flow route can be described by identifying, e.g., tributary e, which flows through the review area, to flow into tributary b, which then flows into TNW.

An astural or man-made discontinuity in the OHVM does not necessarily saver jurisdiction (e.g., where the stream temporarily flows underground, or where the OHVM has been removed by development or agricultural practices). Whare there is a break the waterbody's flow ragime (e.g., flow over a rock outcrop or through a culvert), the agencias will look for indicators of flow above and below the break.

7-lbid.

<sup>8-</sup>See Footnote #3

<sup>9 -</sup>To complete the analysis refer to the key in Section III.D.6 of the instructional Guidebook

<sup>10.</sup> Prior to asserting or declining CWA juriediction based solely on this category, Corps Districts will elevete the action to Corps and EPA HQ for review consistent with the process described in the Corps EPA Memorandum Regerding CWA Act Jurisdictic

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

#### SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 07-Dec-2009

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2008-00608-JD2

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: County/parish/borough: IL - Illinois Will

City:

41.58998 -87.99505

Lat: Long:

Universal Transverse Mercator

Folder UTM List UTM list determined by folder location

NAD83 / UTM zone 37S

Waters UTM List

UTM list determined by waters location

NAD83 / UTM zone 37S

Name of nearestwaterbody:

Name of nearestTraditional Navigable Water (TNW):

Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date:

Field Determination Date(s):

30-Jul-2009

#### SECTION II: SHMMARY OF FINDINGS

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

# 1. Waters of the U.S.

## a. Indicate presence of waters of U.S. in review area:1

Water Name Water Type(s) Present

LRC-2008-608 WL 2 Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: 11

OHWM Elevation: (if known)

2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

# 2. Wetland Adjacent to TNW

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

## (i) General Area Conditions:

Watershed size: Drainage area: Average annual rainfall: 32 inches Average annual snowfall: 40 inches

```
(ii) Physical Characteristics
(a) Relationship with TNW:
     Tributary flows directly into TNW.
     Tributary flows through [] tributaries before entering TNW.
  Number of tributaries
 Project waters are 5-10 river miles from TNW.
 Project waters are 1 (or less) river miles from RPW.
 Project Waters are 2-5 aerial (straight) miles from TNW.
 Project waters are 1 (or less) aerial(straight) miles from RPW.
      Project waters cross or serve as state boundaries
 Identify flow route to TNW:5
 The stream flows into a tributary of North Fraction Run, then into North Fraction Run, which flows to Fraction Run before draining to the I&M Canal, a TNW.
Tributary Stream Order, if known:
        LRC-2008-608 WL 2
(b) General Tributary Characteristics:
   Tributary Name Natural Artificial Explain Manipulated
                                                                                            Explain
 LRC-2008-608 WL 2
                                                                      Portions of the tributary have been channelized and tiled
Tributary properties with respect to top of bank (estimate):
   Tributary Name Width (ft) Depth (ft) Side Slopes
 LRC-2008-608 WL 2 4
                                               4:1 (or greater)
Primary tributary substrate composition:
  Tributary Name Silt Sands Concrete Cobble Gravel Muck Bedrock Vegetation Other
 LRC-2008-608 WI 2 X
Tributary (conditions, stability, presence, geometry, gradient):
  Tributary Name
                                   Condition\Stability
                                                                       Run\Riffle\Pool Complexes
                                                                                                     Geometry Gradient (%)
 LRC-2008-608 WL 2 Stable, small drainageway with non-eroding banks.
                                                                                                     Meandening 2
(c) Flow:
  Tributary Name
                      Provides for Events Per Year Flow Regime Duration & Volume
 LRC-2008-608 WL 2 Perennial flow 20 (or greater)
Surface Flow is:
  Tributary Name
                      Surface Flow
                                                               Characteristics
 LRC-2008-608 WL 2 Discrete
                                       The drainageway is shown on the USGS quad as an intermittent stream.
Subsurface Flow:
                      Subsurface Flow Explain Findings Dye (or other) Test
  Tributary Name
 LRC-2008-608 WL 2 Unknown
Tributary has:
                                                Discontinuous
  Tributary Name
                      Bed & Banks OHWM
                                                    OHWM7
 LRC-2008-608 WL 2
Tributaries with OHWM<sup>6</sup> - (as indicated above)
                                              Changes Destruction
                                                                                                    Matted\Absent
                                                                                                                     Sediment Leaf Litter Scour
                                                                                                                                                         Sediment
                                                                                                                                                                                       Wat
 Tributary Name OHWM Clear Litter
                                                                         Shelving Wrack Line
                                                                                                                                                                      Flow Events
                                                                                                     Vegetation
                                                           Vegetation
                                                                                                                                                        Deposition
 LRC-2008-608
WL 2
                                                                                                          Х
If factors other than the OHWM were used to determine lateral extent of CWAjurisdiction:
High Tide Line indicated by:
Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
                                                                                             Identify specific pollutants, if known
  Tributary Name Explain
 LRC-2008-608 WL 2 Water appears to be clear and unpolluted. Watershed is rural and suburban.
```

(iv) Biological Characteristics. Channel supports: Tributary Name Riparian Corridor Characteristics Wetland Fringe Characteristics Habitat LRC-2008-608 WL 2 Portions of the riparian corridor are wooded. 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable (b) General Flow Relationship with Non-TNW: Flow is: Not Applicable Surface flow is: Not Applicable. Subsurface flow: (c) Wetland Adjacency Determination with Non-TNW: Not Applicable (d) Proximity (Relationship) to TNW: Not Applicable. (ii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). (iii) Biological Characteristics. Wetland supports: Not Applicable 3. Characteristics of all wetlands adjacent to the tributary (if any): All wetlands being considered in the cumulative analysis: Summarize overall biological, chemical and physical functions being performed: C. SIGNIFICANT NEXUS DETERMINATION A significant nexus analysis will assess the flow characteriatics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to detarmine if they sign chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not ilimited to the volume, duration, and freque in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific. 9. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus based solely on any specific provided the tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus based solely on any specific provided the tributary and its adjacent wetland or between a tributary and the TNW). Significant Nexus: Not Applicable D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE: 1. TNWs and Adjacent Wetlands: Not Applicable 2. RPWs that flow directly or indirectly into TNWs: Wetland Name Flow Explain LRC-2008-608 WL 2 PERENNIAL Provide estimates for jurisdictional waters in the review area: Wetland Name Size (Linear) (m) Size (Area) (m²) Type LRC-2008-608 WL 2 Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs 728 43408 Total: 728.43408 3. Non-RPWs that flow directly or indirectly into TNWs:8 Provide estimates for jurisdictional waters in the review area: Not Applicable 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Provide acreage estimates forjurisdictional wetlands in the review area:

Provide acreage estimates forjurisdictional wetlands in the review area: Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable

7. Impoundments of jurisdictional waters:9
Not Applicable

E. ISOLATED (INTERSTATE OR INTRA-STATE) WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, I Not Applicable

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area:

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR)

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates fornon-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered imigated agriculture), using best professional judgment:

Provide acreage estimates formon-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (Isted dems shall be included in case file and, where checked and requested, appropriately reference below) Not Applicable.

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Not Applicable

1-Boxes checked below shall be supported by completing the eppropriate sections in Section III below

2-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months)

<sup>3</sup>-Supporting documentation is presented in Section III.F

4-Note that the instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

5-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

6-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practicee). Where there is a break the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
7-libid

 $^{9}$  -To complate the analysis rafer to the key in Section (II D.6 of the Instructional Guidebook

10. Pnor to seserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdictic

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

#### SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 15-Dec-2009

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2009-00606-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:

IL - Illinois

County/parish/borough: City:

McHenry Spring Grove

Lat:

42.44055

Long:

-88.23722

Universal Transverse Mercator

Folder UTM List

UTM list determined by folder location

NAD83 / UTM zone 38S

Waters UTM List

NAD83 / UTM zone 38S

Name of nearestwaterbody:

Nippersink Creek

Name of nearestTraditional Navigable Water (TNW): Fox River

Name of watershed or Hydrologic Unit Code (HUC): Fox River

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request

Check if other sites (e.g., offsite miligation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 15-Dec-2009

Field Determination Date(s):

#### SECTION IF SUMMARY OF FINDINGS

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) junsdiction (as defined by 33 CFR part 329) in the review area

Waters subject to the ebb and flow of the tide

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [ ] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area;1

Water Name

Water Type(s) Present

LRC-2009-606 Wetland 1 LRC-2009-606 Wetland 2 LRC-2009-606 Wetland 3

LRC-2009-606 Nippersink Creek Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

#### b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

#### c. Limits (boundaries) of jurisdiction:

based on:

1987 Delineation Manual

OHWM Elevation: (if known)

#### 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

# A. TNWs AND WETLANDS ADJACENT TO TNWs

# 1.TNW

Not Applicable

#### 2. Wetland Adjacent to TNW

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

[]

[]

(i) General Area Conditions:

Watershed size:

Drainage area:

```
Average annual rainfall: inches
Average annual snowfall: inches
(ii) Physical Characteristics
(a) Relationship with TNW:
    Tributary flows directly into TNW.
    Tributary flows through [] tributaries before entering TNW.
 :Number of tributaries
Project waters are [] river miles from TNW.
Project waters are [] river miles from RPW.
Project Waters are [] aerial (straight) miles from TNW.
Project waters are [] aerial(straight) miles from RPW.
    Project waters cross or serve as state boundaries
Identify flow route to TNW:5
Tributary Stream Order, If known:
 Order Tributary Warns
- LRC-2009-606 Nippersink Creek
(b) General Tributary Characteristics:
       Tributary Name Natural Artificial Explain Manipulated Explain
 LRC-2009-606 Nippersink Creek X
Tributary properties with respect to top of bank (estimate):
       Tributary Name Width (ft) Depth (ft) Side Slopes
 LRC-2009-606 Nippersink Creek 100
Primary tributary substrate composition:
       Tributary Name Silt Sands Concrete Cobble Gravel Muck Bedrock Vegetation Other
 LRC-2009-606 Nippersink Creek - - - - -
Tributary (conditions, stability, presence, geometry, gradient):
                             Condition\Stability Run\Riffle\Pool Complexes Geometry Gradient (%)
       Tributary Name
 LRC-2009-606 Nippersink Creek -
                                                                                  Meandering -
(c) Flow:
      Tributary Name Provides for Events Per Year Flow Regime Duration & Volume
 LRC-2009-606 Nippersink Creek Perennial flow -
Surface Flow is:
      e Flow is:
Tributary Name Surface Flow Characteristics
 LRC-2009-606 Nippersink Creek Discrete and confined -
Subsurface Flow:
       Tributary Name Subsurface Flow Explain Findings Dye (or other) Test
 LRC-2009-606 Nippersink Creek Unknown
Tributary has:
                             Bed & Banks OHWM Discontinuous Explain
       Tributary Name
                                                            OHWM7
                                    x - ...
 LRC-2009-606 Nippersink Creek
If factors other than the OHWM were used to determine lateral extent of CWAjurisdiction:
High Tide Line indicated by:
Not Applicable.
Mean High Water Mark indicated by:
(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).
                                                                      Identify specific pollutants, if known
 LRC-2009-606 Nippersink Creek High quality stream with good water quality
(iv) Biological Characteristics. Channel supports:
Tributary Name Riparian Corridor Characteristics Wetland Fringe Characteristics Habitat LRC-2009-806 Nippersink Creek X X
```

Explain Findings Aquatic\Wildlife Explain Fin

Diversity

ORM Printer F	riendly JD	) Form				
Habitat for: (as indicated al					A., .	
Tributary Name Habit	at Federally Listed Species	s Explain Findings	Fish\Spawn Area	s Explain Fin	dings Other Environi Sensitive Sp	
LRC-2009-606 Nippersink Creek	x	-	-	-		·· -
2. Characteristics of wetlan	nds adjacent to non-	TNW that flow directly o	or indirectly into TNV	N		
(i) Physical Characteristics (a) General Wetland Characteristics Properties:						
Wetland Name	Size (Acres) V	Wetland Type V	Vetland Quality	Cross or Se	ve as State Boundarie	s. Explain
LRC-2009-606 Wetland 1	0 En	nergent Low	FQI 6.7	· •		
LRC-2009-606 Wetland 2			o moderate - FQI 12.3	3 -		
LRC-2009-606 Wetland 3	.02 Er	nergent Riparian Mode	rate- FQI 16.3	-		
(b) General Flow Relations	hip with Non-TNW:					
Flow is: Wetland Name	Flow E	xplain				
LRC-2009-606 Wetland 1	Perennial flow	Apidai				
LRC-2009-606 Wetland 3	Perennial flow.	-				
Surfaceflow is:						
Wetland Name		teristics				
LRC-2009-606 Wetland 1	Discrete -					
LRC-2009-606 Wetland 2 LRC-2009-606 Wetland 3	Discrete -					
2.10 2007 007	2.44.24					
Subsurface flow:						
Wetland Name	Subsurface Flow	Explain Findings	Dye (or other) Tes	st		
LRC-2009-606 Wetland 1	Unknown					
LRC-2009-606 Wetland 2 LRC-2009-606 Wetland 3	- Unknown	•				
ENG-2003-000 Westalid 3	Olivioni					
(c) Wetland Adjacency Det	ermination with Non	n-TNW:				
Wetland Name	Directly Abutting	Discrete Wetlan Hydrologic Connec			eparated by lerm/Barrier	
LRC-2009-606 Wetland 1	Yes	•	-			
LRC-2009-606 Wetland 2	Yes	•	•	-		
LRC-2009-606 Wetland 3	Yes	-	•			
(d) Proximity (Relationship	) to TNW:					
Wetland Name		rial Miles Flow	Direction V	Vithin Floodplaí	•	
		om INW		vicinis i locupiai	•	
LRC-2009-606 Wetland 1	2-5 2-5		navigable waters -			
LRC-2009-606 Wetland 2 LRC-2009-606 Wetland 3	2-5 2-5 2-5 2-5		navigable waters - navigable waters -			
LRC-2009-000 Wetland 3	2-0 2-5	yvetiand to	ila vi Gabie Waters -			
(ii) Chemical Characteristic	cs:					
Characterize tributary (e.g.				al watershed cha	racteastics, etc.).	
Wetland Name LRC-2009-606 Wetland 1	Explain Identif	y specific pollutants, i	II KIIUWII			
LRC-2009-606 Welland 1						

Wetland Name	Explain	identify specific pollutants, if known	
LRC-2009-606 Wetland 1		•	
LRC-2009-606 Wetland 2	-	•	
LRC-2009-606 Wetland 3	-		

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

#### (iii) Biological Characteristics, Wetland supports:

Wetland Name	Riparian Buffer	Characteristics	Vegetation	Explain	
LRC-2009-606 Wetland 1	-	-	-	•	
LRC-2009-606 Wetland 2	X	-		. •	
LRC-2009-606 Wetland 3	X				

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis: Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS, THE SUBJECT WATERS/WETLANDS ARE:

# TNWs and Adjacent Wetlands: Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

Wetland Name Explain Flow

LRC-2009-606 Nippersink Creek PERENNIAL Nippersink Creekis a continuously flowing, perennial stream

Provide estimates for jurisdictional waters in the review area:

Wetland Name Size (Linear) (m) Size (Area) (m²) LRC-2009-606 Nippersink Creek Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs 578.700408 578,700408

Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Flow Explain Wetland Name LRC-2009-606 Wetland 1 PERENNIAL Wetland is an island in the middle of the creek LRC-2009-606 Wetland 2 PERENNIAL Wetland abbutting RPW

Provide acreage estimates for jurisdictional wetlands in the review area

LRC-2009-606 Wetland 3 PERENNIAL Wetland abutting RPW

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
LRC-2009-606 Wetland 1	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs		12.140568
LRC-2009-606 Wetland 2	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs		16.187424
LRC-2009-606 Wetland 3	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	89.030832
Total:		0	117.358824

Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates forjurisdictional wetlands in the review area:

Not Applicable

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Provide estimates for jurisdictional wetlands in the review area:

7. Impoundments of jurisdictional waters.9

E. ISOLATED (INTERSTATE OR INTRA-STATE) WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS: 10 Not Applicable.

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area:

Not Applicable

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates fornon-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates fornon-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

#### SECTION IV: DATA SOURCES.

A. SUPPORTING DATA, Data reviewed for JD (listed items shall be included in case file and, where checked and requested, appropriately reference below)

Data Reviewed Source Label Source Description -Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant Soil Survey Map -Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant McHenry ADID Map ADID N87

-Maps, plans, plots or plat submitted by or on behalf of the applicant consultant Delineation Map Boundary shown on aerial

# B. ADDITIONAL COMMENTS TO SUPPORT JD: Not Applicable.

<sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below

3-Supporting documentation is presented in Section III F.

5-Flow route can be described by identifying, e.g., tributary a, which flows through the review eree, to flow into tributary b, which then flows into TNW.

8-See Footnote #3

<sup>2-</sup>For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>4-</sup>Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West

<sup>6.</sup> A natural or man-mede discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break OHVM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
7. Ibid.

<sup>&</sup>lt;sup>9</sup> ·To complete the analysis refer to the key in Section III.D 6 of the Instructional Guidebook

To complete the analysis tested of the way is occusion. But the way is occusion to control the complete the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Junedictic Following Rapanos.

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

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

	CTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 12/21/09
В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2009-486,
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: Big Timber Rd, East of Powers Rd and North of Higgins Rd State: Illinois County/parish/borough: Kane City: Rutland Township  Center coordinates of site (lat/long in degree decimal format): Lat. 42.10154°N, Long88.40568° W.  Universal Transverse Mercator: NAD 83  Name of nearest waterbody: Tributary to Eakin Creek  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Rock River  Name of watershed or Hydrologic Unit Code (HUC): Kishwaukee (07090006)  Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  ○ Office (Desk) Determination. Date: 12/10/2009  ○ Field Determination. Date(s): 12/10/2009
SEC	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: Defined in People of State of III. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.III. Jan. 20, 1979).  CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):  TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: linear feet: width (ft) and/or acres.  Wetlands: 36 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
	2. Non-regulated waters/wetlands (check if applicable):  Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain:

1

Boxes checked below shall be supported by completing the appropriate sections in Section III below.
 For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
 Supporting documentation is presented in Section III.F.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.I. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

#### I. TNW

Identify TNW: Pick List.

Summarize rationale supporting determination: As defined in People of State of III. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.III. Jan. 20, 1979).

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

## (i) General Area Conditions:

Watershed size: Pick List
Drainage area: Pick List
Average annual rainfall: i nches
Average annual snowfall: inches

## (ii) Physical Characteristics:

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are Pick List river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW5:

Tributary stream order, if known:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	(0)	Tributary is: Natural  Artificial (man-made). Explain:  Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate):  Average width: feet  Average depth: feet  Average side slopes: Pick List.
		Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:  Presence of run/riffle/pool complexes. Explain:  Tributary geometry: Pick List  Tributary gradient (approximate average slope): %
	(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Subsurface flow: <b>Pick List</b> . Explain findings:  Dye (or other) test performed:
		Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting scour multiple observed or predicted flow events abrupt change in plant community  Discontinuous OHWM. <sup>7</sup> Explain:
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):    High Tide Line indicated by:
(iii)	Cha	emical Characteristics:  aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.)  Explain:  ntify specific pollutants, if known:

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

	(iv)	Biol	ogical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for:  Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
2.	Cha	aract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Sical Characteristics:  General Wetland Characteristics:  Properties:  Wetland size: acres  Wetland type. Explain:  Wetland quality. Explain:  Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW: Flow is: Pick List. Explain:
			Surface flow is: Pick List Characteristics:
			Subsurface flow: <b>Pick List</b> . Explain findings:  Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
		(d)	Proximity (Relationship) to TNW  Project wetlands are <b>Pick List</b> river miles from TNW.  Project waters are <b>Pick List</b> aerial (straight) miles from TNW.  Flow is from: <b>Pick List</b> .  Estimate approximate location of wetland as within the <b>Pick List</b> floodplain.
	(ii)	Cha	emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: httify specific pollutants, if known:
	(iii	Bio	logical Characteristics. Wetland supports (check all that apply):  Riparian buffer. Characteristics (type, average width):  Vegetation type/percent cover. Explain:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
3.	Cha	All	wetland(s) being considered in the cumulative analysis: Pick List broximately ( ) acres in total are being considered in the cumulative analysis.
			4

For each wetland, specify the following:

Name/ID Directly abuts? (Y/N) Size (in acres) Name/ID Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D.	DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL
	THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.  ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: The Tributary to Eakin Creek is a RPW.  ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

		Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: li near feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
	3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: li near feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
	4.	<ul> <li>Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.</li> <li>✓ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.</li> <li>✓ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: The Tributary to Eakin Creek is a RPW.</li> </ul>
		Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		Provide acreage estimates for jurisdictional wetlands in the review area: 36 acres.
	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.
	6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional wetlands in the review area: acres.
	7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or  Demonstrate that water meets the criteria for one of the categories presented above (1-6), or  Demonstrate that water is isolated with a nexus to commerce (see E below).
E.	DE SUC	CLATED  INTERSTATE OR INTRA-STATE  WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:  Other factors. Explain:
	Ide	ntify water body and summarize rationale supporting determination:

 <sup>8</sup>See Footnote # 3.
 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 10 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Pro	vide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:  Wetlands: acres.
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.
SEC	CTION IV: DATA SOURCES.
Α.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):    Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Delineation dated 12/1/2008.     Data sheets prepared/submitted by or on behalf of the applicant/consultant.     Office concurs with data sheets/delineation report.     Office does not concur with data sheets/delineation report.     Data sheets prepared by the Corps:     Corps navigable waters' study:     U.S. Geological Survey Hydrologic Atlas:Pick List,     USGS NHD data.     USGS NHD data.     USGS NHD data.     USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Kane County, Illinois (2003).     National wetlands inventory map(s). Cite name: Pingree Grove,     State/Local wetland inventory map(s): Kane County ADID, Pick List,     FEMA/FIRM maps:     100-year Floodplain Elevation is:   (National Geodetic Vertical Datum of 1929)     Photographs:   Aerial (Name & Date): 2005.     or   Other (Name & Date): Site Visit 12/10/2009.     Previous determination(s). File no. and date of response letter: 200200242.     Applicable/supporting case law: People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, (S.D.Ill. Jan. 20, 1979)     Applicable/supporting scientific literature:     Other information (please specify): 2" Topographic Survey by Kane County.
n	ADDITIONAL COMMENTS TO SUDDODT ID. The least state of a ADID High Foundation Western 4400 selection was

**B.** ADDITIONAL COMMENTS TO SUPPORT JD: The large wetland is ADID High Functioning Wetland #480, which drains west through a ditch and under a driveway to ADID High Functioning Wetland #3169. Both the tributary to Eakin Creek and Eakin Creek flow from this wetland to the South Branch of the Kishwaukee River. The Kishwaukee River flows to the Rock River, which is a navigable waterway.

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

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SEC A.	CTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): December 23, 2009
В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, Bruner Forest Preserve Bridge Replacement  LRC-2010-12
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: Bruner Forest Preserve Bridge Replacement  State: Illinois County/parish/borough: Kane City: Carpentersville  Center coordinates of site (lat/long in degree decimal format): Lat. 42.07586°N, Long. 88.17537° W.  Universal Transverse Mercator: NAD 83  Name of nearest waterbody: Unnamed Tributary to the Fox River  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Fox River  Name of watershed or Hydrologic Unit Code (HUC): Upper Fox (07120006)  Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  Office (Desk) Determination. Date: 12/21/2009  Field Determination. Date(s): 11/17/2009
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: Defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):  TNWs, including territorial seas  Wetlands adjacent to TNWs  Relatively permanent waters <sup>2</sup> (RPWs) that flow directly or indirectly into TNWs  Non-RPWs that flow directly or indirectly into TNWs  Wetlands directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs  Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: 150 linear feet: 4 width (ft) and/or acres.  Wetlands: 0.08 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known): unknown.
	2. Non-regulated waters/wetlands (check if applicable): <sup>3</sup> Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:  .

Boxes checked below shall be supported by completing the appropriate sections in Section III below.
 For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
 Supporting documentation is presented in Section III.F.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

#### 1. TNW

Identify TNW: Pick List.

Summarize rationale supporting determination: As defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

## (i) General Area Conditions:

Watershed size: Pick List
Drainage area: Pick List
Average annual rainfall: inches
Average annual snowfall: inches

#### (ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW. Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are Pick List aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>:

Tributary stream order, if known:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tributary Characteristics (check all that apply):  Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate):  Average width: feet  Average depth: feet  Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:  Presence of run/riffle/pool complexes. Explain:  Tributary geometry: Pick List  Tributary gradient (approximate average slope):
(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
	Surface flow is: Pick List. Characteristics: .
	Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
	Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation shelving destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting sediment deposition multiple observed or predicted flow events abrupt change in plant community  Discontinuous OHWM. <sup>7</sup> Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):  High Tide Line indicated by:  oil or scum line along shore objects  fine shell or debris deposits (foreshore)  physical markings/characteristics  tidal gauges  other (list):  Mean High Water Mark indicated by:  survey to available datum;  physical markings;  vegetation lines/changes in vegetation types.
Cha	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: httify specific pollutants, if known:

(iii)

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

	(iv)	Bio	logical Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width):  Wetland fringe. Characteristics:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
2.	Cha	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		General Wetland Characteristics: Properties: Wetland size: 0.08 acres Wetland type. Explain: Fresh wet meadow. Wetland quality. Explain: Low Vegetative Quality (FQI of 10.84). Project wetlands cross or serve as state boundaries. Explain: Not Applicable.
		(b)	General Flow Relationship with Non-TNW: Flow is: <b>Perennial flow</b> . Explain: Wetlands drain to unnamed tributary, flows to Fox River.
			Surface flow is: <b>Confined</b> Characteristics: Infiltrates to groundwater / sheet flow to channel.
			Subsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
		(d)	Proximity (Relationship) to TNW Project wetlands are 1 (or less) river miles from TNW. Project waters are 1 (or less) aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 500-year or greater floodplain.
	(ii)	Cha	emical Characteristics: aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: water is clear. attify specific pollutants, if known: Unknown.
	(iii)	Bio	logical Characteristics. Wetland supports (check all that apply):  Riparian buffer. Characteristics (type, average width): 10 feet.  Vegetation type/percent cover. Explain: Fresh wet meadow.  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
3.	Cha	All	eristics of all wetlands adjacent to the tributary (if any) wetland(s) being considered in the cumulative analysis:  proximately (0.08) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Name/ID	Directly abuts? (Y/N)	Size (in acres)	Name/1D	Directly abuts? (Y/N)	Size (in acres)
Wetlant Unwarmed Trib	Y	0.08 50 ft.			
Unwarmed Trib to Fop River		20 111			

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook, Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.  Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Site observation November 17, 2009: water flowing, depth approximately 6". The waterway is identified on the Hydrologic Atlas Flood of Record Map and National Wetland Inventory Map; FEMA map show proximity to the Fox River (all attached). National Weather Service Climate Data -12/21/2009 Chicago-O'Hare Report attached.  Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: 150 linear feet 4 width (ft).  Other non-wetland waters: acres.
	Identify type(s) of waters:
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland Delineation Report showing wetland boundaries and the proximity of the tributary to the Fox River is enclosed. A Delineated Wetland Boundary exhibit is enclosed.
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: 0.08 acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or  Demonstrate that water meets the criteria for one of the categories presented above (1-6), or  Demonstrate that water is isolated with a nexus to commerce (see E below).
D S	SOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, EGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY UCH WATERS (CHECK ALL THAT APPLY): 10  which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
Id	lentify water body and summarize rationale supporting determination:

E.

 <sup>8</sup> See Footnote # 3.
 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 10 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Pro	vide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:  Wetlands: acres.				
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Enginee Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely o "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above):				
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.  Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.  Wetlands: acres.				
SEC	CTION IV: DATA SOURCES.				
A.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Surveyed Wetland Boundary.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report.  Office does not concur with data sheets/delineation report.  Data sheets prepared by the Corps:  Corps navigable waters' study:  U.S. Geological Survey Hydrologic Atlas: Floods in Crystal Lake Quadrangle, Illinois, HA-253.  USGS NHD data.  USGS 8 and 12 digit HUC maps.  U.S. Geological Survey map(s). Cite scale & quad name:  USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Kane County, Illinois (2003).  National wetlands inventory map(s). Cite name: US Fish & Wildlife ServiceWetlands Online Mapper.				
	U.S. Geological Survey map(s). Cite scale & quad name:  USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Kane County, Illinois (2003).  National wetlands inventory map(s). Cite name: US Fish & Wildlife ServiceWetlands Online Mapper.  State/Local wetland inventory map(s): Kane County ADID, Pick List,  FEMA/FIRM maps: FIRM 17089C0070H.  100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)  Photographs: ☑ Aerial (Name & Date): Kane County Aerial Photograph, 2002.  or ☑ Other (Name & Date): Site Photographs, 11/17/2009.  Previous determination(s). File no. and date of response letter:  Applicable/supporting case law: People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, (S.D.Ill. Jan. 20, 1979)  Applicable/supporting scientific literature:  Other information (please specify): National Weather Service Climate Data -12/21/2009 Chicago-O'Hare Report.				

# B. ADDITIONAL COMMENTS TO SUPPORT JD: