WETLAND DELINEATION REPORT

JAY COUNTY PROPERTY

Prepared for:

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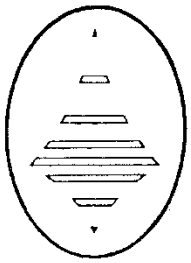

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EXECUTIVE SUMMARY

A wetland delineation for the 75-acre Jay County Property site in Portland (Jay County, Indiana) was completed on 6, 7, & 11 June 2024. The wetland delineation was performed using the routine on-site determination method as set forth by the 1987 *Corps of Engineers Wetlands Delineation Manual* and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*.

Under Sections 404 and 401 of the Clean Water Act, the Army Corps of Engineers (ACOE) and/or the Indiana Department of Environmental Management (IDEM) have jurisdiction over *waters of the United States*. This includes wetlands and other *waters* that meet the definition of a *waters of the United States*. Wetlands not regulated under Section 401 and 404 of the Clean Water Act may be regulated by the State of Indiana under IC 13-18-22. Any activity that involves the placement of fill and/or excavation within these jurisdictional areas may require notification and authorization of the appropriate regulatory agency. Jurisdictional status of *waters* identified within this report is based on ***Earth Source***, Inc.'s interpretation and understanding of the definition and scope of *waters of the United States* protected under the Clean Water Act and related communications with ACOE Division and District personnel.

As illustrated by the attached wetland delineation plan (J7), 26.79 acres of wetland and 1,879 linear feet of drain were identified within the project limits, of which 0.15 acres of wetland is considered non-jurisdictional (isolated), and 26.64 acres of wetland and 1,879 linear feet of drain is considered jurisdictional *Waters of the United States* (Table 1).

TABLE 1. SUMMARY OF WATERS

Wetlands	**Size**	**Description**
Section I	23.92 acres	Forested/Scrub-Shrub Wetland
Section II	0.03 acres	Forested Wetland
Section III	1.20 acres	Forested Wetland
Section IV	0.70 acres	Forested Wetland
Section V	<0.01 acres	Forested Wetland
Section VI	0.09 acres	Forested Wetland, Isolated
Section VII	0.06 acres	Forested Wetland, Isolated
Section VIII	0.78 acres	Forested Wetland
Drains	**Length**	**Description**
Drain 1	1,879 L.F.	Intermittent Drain – Unnamed Tributary to Salamonie Creek

INTRODUCTION

A wetland delineation for the 75-acre Jay County Property site in Portland (Jay County, Indiana) was completed on 6, 7, and 11 June 2024 (limits of delineation noted on attached plans J2 – J8). Site conditions were partly cloudy and 65°F on 6 June, sunny and 70°F on 7 June, and sunny and 55°F on 11 June, ground conditions were unobscured. The project is located in Wayne Township (T23N, R14E, Section 19) in Jay County, Indiana (Latitude: 40.431217°, Longitude: -85.006968°, WGS 84). The wetland delineation was performed using the routine on-site determination method as set forth by 1987 *Corps of Engineers Wetlands Delineation Manual* and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*.

METHODOLOGY

Four (4) transects were set perpendicular to the baseline and modified to encompass all areas and community types within the site boundary. Data stations included areas identified by soils data, the U.S. Fish and Wildlife Service (FWS) National Wetland Inventory, and Aerial Photography as potential wetlands. Soil, hydrology, and vegetation data were collected for each cover type encountered.

The three criteria required for the determination of an area to be a wetland are 1) Hydric Soils, 2) Wetland Hydrology, and 3) Dominance of Hydrophytic Vegetation. **Hydric Soils** criteria are met with a hydric soils listing and/or the presence of Histosols (organic soils - peat or muck), a histic epipedon, or reduced mineral soils with low matrix chroma of 2 or less with mottles, or with a matrix chroma of 1 without mottles, or gleyed soils, and/or the presence of other hydric soil indicators such as an aquic or peraquic moisture regime, ponding or a water table near the surface for at least one week during the growing season. **Wetland Hydrology** criteria are met or assumed by the presence of inundation or saturated soils and/or the confirmed presence of hydrologic field indicators such as water marks, debris deposits or morphological plant adaptations to life in anaerobic soil conditions. **Hydrophytic Vegetation** is a plant adapted to life in permanently or periodically inundated or saturated soil conditions. Wetland vegetation is characterized as an obligate, facultative wetland, or facultative species dependent upon the frequency these species are found in wetlands. The Hydrophytic Vegetation criterion is met when, upon identification of the dominant plant species in each stratum or layer of the plant community, a dominance (greater than 50 percent) of obligate, facultative wetland or facultative species is indicated. The hydrophytic vegetation criterion was based upon persistent vegetation. In order for an area to be determined as a wetland, all three criteria must be positively identified.

In order for an area to be subject to federal regulation, all three wetland criteria must be positively identified, and the area must meet the current definition of *waters of the United States*.

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WETLAND DELINEATION SUMMARY

Eight (8) wetlands and one (1) drain were identified within the limits of the site. The wetland delineation was performed using the routine on-site determination method as set forth by 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0). Based on the three 30-day periods preceding the wetland delineation, the delineation was conducted in a "Normal" (6-7 June) and "Drier-than-Normal" (11 June) year compared to the precipitation totals from the preceding 30 years. A discussion of the delineated water resources found on the site is presented below.

Waters of the United States

One (1) drain and six (6) wetlands within the limits of the site were identified as jurisdictional *waters of the United States*. The delineated areas appear to have a discernable surface water connection to other *waters of the United States* and appear to meet the definition of *waters of the United States* as defined by 33 CFR 328.3 (a).

Drain 1: Drain 1 is an open, intermittent drain identified as an Unnamed Tributary to Salamonie Creek. The drain begins east of the site and flows west along the southern boundary. After that, the drain continues to flow west and south until it enters Salamonie Creek. Drain 1 is charged by a culvert carrying off-site drainage from the south side of the railroad onto the site. The open drain is delineated at the Ordinary High Water Mark (OHWM). The OHWM was determined in the field by the presence of a definitive bed and bank and scour marks. The drain averaged 8 feet wide with no water flowing at the time of delineation. The drain is classified as Riverine, Intermittent, Streambed (R4SB) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated length is 1,879 linear feet. Below is a typical data point taken from within Drain 1 (Appendix A: Data Form T1P8, T3P14).

SECTION I: Section I is a forested/scrub-shrub wetland located throughout the project site. The wetland is charged by rainfall, upland runoff, and a seasonally high water table and drains south to Drain 1. This section is classified as a Palustrine, Forested/Scrub-Shrub, Deciduous, Seasonally Flooded (PFO/SS1C) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 23.92 acres of wetland. Below is a typical data point taken from within Section I (Appendix A: Data Forms T1P3, T1P5, T1P7, T2P1. T2P3. T2P6, T3P2, T3P4, T3P8, T4P2, T4P3, and T4P5).

Hydric Soil: This area is listed by the Jay County Soil Survey as Pewamo silty clay. The Pewamo series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/1 with 5% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: depleted matrix (F3).

Hydrology: Visual observations of hydrology included saturation at the soil surface and areas of less than one inch of inundation within the wetland. Primary indicators of

hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Saturation (A3) and Sparsely Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the "50/20 rule" and are marked with an asterisk (*). Below is the vegetation data from T3P4 (Appendix A) that represents a typical data point for the wetland community type:

Tree Stratum Species List (30-ft radius):

Pin Oak*	*Quercus palustris*	FACW

Sapling/Shrub Stratum Species List (15-ft radius):

Green Ash*	*Fraxinus pennsylvanica*	FACW

Herbaceous Stratum Species List (5-ft radius):

Pin Oak*	*Quercus palustris*	FACW
Fowl Manna Grass*	*Glyceria striata*	OBL
White-Panicled American-Aster	*Symphyotrichum lanceolatum*	FAC
Lakebank Sedge	*Carex lacustris*	OBL
Common Fox Sedge	*Carex vulpinoidea*	FACW

The total number of dominant species across all strata was four (4) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic vegetation indicator is met by the dominance test.

SECTION II: Section II is a forested wetland located in a depression south of Drain 1. The wetland is charged by rainfall, upland runoff, and a seasonally high water table and drains east to Drain 1. This section is classified as a Palustrine, Forested, Deciduous, Temporarily Flooded (PFO1A) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 0.03 acres of wetland. Below is a typical data point taken from within Section II (Appendix A: Data Forms T3P13).

Hydric Soil: This area is listed by the Jay County Soil Survey as Blount-Glynwood complex. The Blount and Glynwood series are listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 3/1 with 10% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: redox dark surface (F6).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Sparsley Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and

FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the "50/20 rule" and are marked with an asterisk (*). Below is the vegetation data from T3P13 (Appendix A) that represents a typical data point for the wetland community type:

Tree Stratum Species List (30-ft radius):

American Elm*	*Ulmus americana*	FACW

Sapling/Shrub Stratum Species List (15-ft radius):

Green Ash*	*Fraxinus pennsylvanica*	FACW

Herbaceous Stratum Species List (5-ft radius):

Virginia-Creeper*	*Parthenocissus quinquefolia*	FACU

The total number of dominant species across all strata was three (3) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 67%. Hydrophytic vegetation indicator is met by the dominance test.

SECTION III: Section III is a forested/scrub-shrub wetland located throughout the project site. The wetland is charged by rainfall, upland runoff, and a seasonally high water table and drains north to Section I, and ultimately to Drain 1. This section is classified as a Palustrine, Forested, Deciduous, Seasonally Flooded (PFO1C) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 1.20 acres of wetland. Below is a typical data point taken from within Section III (Appendix A: Data Forms T3P6).

Hydric Soil: This area is listed by the Jay County Soil Survey as Brookston-Glynwood complex. The Brookston and Glynwood series are listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/1 with 10% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: depleted matrix (F3).

Hydrology: Visual observations of hydrology included saturation at the soil surface and areas of less than one inch of inundation within the wetland. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Sparsely Vegetated Concave Surface (B8) and Water-Stained Leaves (B9). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic.

Dominant species from each stratum were determined by the "50/20 rule" and are marked with an asterisk (*). Below is the vegetation data from T3P6 (Appendix A) that represents a typical data point for the wetland community type:

Tree Stratum Species List (30-ft radius):		
Pin Oak*	*Quercus palustris*	FACW
Sapling/Shrub Stratum Species List (15-ft radius):		
American Elm*	*Ulmus americana*	FACW
Pin Oak*	*Quercus palustris*	FACW
Herbaceous Stratum Species List (5-ft radius):		
Pin Oak*	*Quercus palustris*	FACW
Eastern Poison Ivy*	*Toxicodendron radicans*	FAC

The total number of dominant species across all strata was five (5) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic vegetation indicator is met by the dominance test.

SECTION IV: Section IV is a forested wetland located just north of Drain 1, in the southern portion of the project site. The wetland is charged by rainfall, upland runoff, and a seasonally high water table and drains south to Drain 1 via Swale 2. This section is classified as a Palustrine, Forested, Deciduous, Seasonally Flooded (PFO1C) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 0.70 acres of wetland. Below is a typical data point taken from within Section IV (Appendix A: Data Forms T3P10).

Hydric Soil: This area is listed by the Jay County Soil Survey as Brookston-Glynwood complex. The Brookston and Glynwood series are listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/1 with 5% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: depleted matrix (F3).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Sparsely Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the "50/20 rule" and are marked with an asterisk (*). Below is the vegetation data from T3P10 (Appendix A) that represents a typical data point for the wetland community type:

Tree Stratum Species List (30-ft radius):

Pin Oak*	*Quercus palustris*	FACW
American Elm*	*Ulmus americana*	FACW

Sapling/Shrub Stratum Species List (15-ft radius):

American Elm*	*Ulmus americana*	FACW
Green Ash*	*Fraxinus pennsylvanica*	FACW
Cock-Spur Hawthorn*	*Crataegus crus-galli*	FAC

Herbaceous Stratum Species List (5-ft radius):

Green Ash*	*Fraxinus pennsylvanica*	FACW

The total number of dominant species across all strata was six (6) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic vegetation indicator is met by the dominance test.

SECTION V: Section V is a forested wetland located in an old oxbow off of Drain 1. The wetland is charged by rainfall, upland runoff, and a seasonally high water table and drains south to Drain 1. This section is classified as a Palustrine, Forested, Deciduous, Seasonally Flooded (PFO/SS1C) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is less than 0.01 acres of wetland. Below is a typical data point taken from within Section V (Appendix A: Data Forms T4P12).

Hydric Soil: This area is listed by the Jay County Soil Survey as Pewamo silty clay. The Pewamo series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay with matrix color at ten (10) inches below the surface of 10YR 4/1 with 20% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: depleted matrix (F3).

Hydrology: Visual observations of hydrology included saturation at the soil surface. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Saturation (A3) and Sparsely Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the “50/20 rule” and are marked with an asterisk (*). Below is the vegetation data from T4P12 (Appendix A) that represents a typical data point for the wetland community type:

Sapling/Shrub Stratum Species List (15-ft radius):

Norther Spicebush*	*Lindera benzoin*	FACW

Herbaceous Stratum Species List (5-ft radius):

Spotted Touch-Me-Not*	*Impatiens capensis*	FACW
Jumpseed*	*Persicaria virginiana*	FAC
Broad-Leaf Enchanter's-Nightshade*	*Circaea canadensis*	FACU

The total number of dominant species across all strata was four (4) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 75%. Hydrophytic vegetation indicator is met by the dominance test.

SECTION VIII: Section VIII is a forested wetland located near the west property boundary. The wetland is charged by rainfall, upland runoff, and a seasonally high water table and drains south to Drain 1 via Swale 3. This section is classified as a Palustrine, Forested, Deciduous, Seasonally Flooded (PFO1C) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 0.78 acres of wetland. Below is a typical data point taken from within Section VIII (Appendix A: Data Forms T4P7 and T4P9).

Hydric Soil: This area is listed by the Jay County Soil Survey as Pewamo silty clay. The Pewamo series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 3/1 with 20% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: redox dark surface (F6).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Sparsely Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the "50/20 rule" and are marked with an asterisk (*). Below is the vegetation data from T4P9 (Appendix A) that represents a typical data point for the wetland community type:

Tree Stratum Species List (30-ft radius):

Shell-Bark Hickory*	*Carya laciniosa*	FACW
Swamp White Oak*	*Quercus bicolor*	FACW

Sapling/Shrub Stratum Species List (15-ft radius):

American Elm*	*Ulmus americana*	FACW
American Hornbeam*	*Carpinus caroliniana*	FAC
Green Ash	*Fraxinus pennsylvanica*	FACW

Herbaceous Stratum Species List (5-ft radius):

Green Ash*	*Fraxinus pennsylvanica*	FACW
Jumpseed*	*Persicaria virginiana*	FAC
Spotted Touch-Me-Not*	*Impatiens capensis*	FACW

The total number of dominant species across all strata was seven (7) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic vegetation indicator is met by the dominance test.

Isolated Wetlands

Two (2) isolated wetlands were identified within the limits of the site. The delineated areas do not appear to have a discernable surface water or tile connection to other *waters of the United States* and do not appear to meet the definition of *waters of the United States* as defined by 33 CFR 328.3 (a) and consistent with the *SWANCC*, Rapanos and Sackett decisions. For isolated, intrastate, non-navigable waters, ACOE jurisdiction may be possible if their use, degradation, or destruction could affect interstate commerce as described in 33 CFR 328.3 (a) (3) (i)-(iii).

SECTION VI: Section VI is a forested wetland located in a depression near the south property boundary and is impounded by the railroad to the south. The wetland is charged by rainfall and upland runoff. The wetland does not have a discernable surface water connection to other waters. This section is classified as a Palustrine, Forested, Deciduous, Seasonally Flooded (PFO1A) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 0.09 acres of wetland. Below is a typical data point taken from within Section VI (Appendix A: Data Form T4P16).

Hydric Soil: This area is listed by the Jay County Soil Survey as Glynwood silt loam. The Glynwood series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was cobblestone overlain with silty clay loam with matrix color of 10YR 2/1 with 5% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: redox dark surface (F6).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were Sparsely Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the “50/20 rule” and are marked with an asterisk (*). Below is the vegetation data from T4P16 (Appendix A) that represents a typical data point for the wetland community type.

Tree Stratum Species List (30-ft radius):

American Elm*	*Ulmus americana*	FACW
Red Oak*	*Quercus rubra*	FACU
Swamp White Oak	*Quercus bicolor*	FACW

Sapling/Shrub Stratum Species List (15-ft radius):

Swamp White Oak*	*Quercus bicolor*	FACW
Ohio Buckeye*	*Aesculus glabra*	FAC

Herbaceous Stratum Species List (5-ft radius):

Green Ash*	*Fraxinus pennsylvanica*	FACW

The total number of dominant species across all strata was five (5) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 80%. Hydrophytic vegetation indicator is met by the dominance test.

SECTION VII: Section VII is a forested wetland located in a depression south of Drain 1. The wetland is charged by rainfall and upland runoff. This wetland is impounded on the south by a berm. The wetland does not have a discernable surface water connection to other waters. This section is classified as a Palustrine, Forested, Deciduous, Seasonally Flooded, farmed (PFO1C) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (J7), the delineated area is 0.06 acres of wetland. Below is a typical data point taken from within Section VII (Appendix A: Data Form T4P13).

Hydric Soil: This area is listed by the Jay County Soil Survey as Glynwood silt loam. The Glynwood series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/1 with 5% redox concentrations of 10YR 4/6 (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of hydric soil indicators: depleted below dark surface (A11) and depleted matrix (F3).

Hydrology: Visual observations of hydrology included saturation to the soil surface. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Saturation (A3) and Sparsely Vegetated Concave Surface (B8). Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, included Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of primary and two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the “50/20 rule” and are marked with an asterisk (*). Below is the vegetation data from T4P13 (Appendix A) that represents a typical data point for the wetland community type:

Sapling/Shrub Stratum Species List (15-ft radius):

American Elm*	*Ulmus americana*	FACW
Green Ash*	*Fraxinus pennsylvanica*	FACW

Herbaceous Stratum Species List (5-ft radius):

Virginia-Creeper*	*Parthenocissus quinquefolia*	FACU
Troublesome Sedge*	*Carex molesta*	FAC
Green Ash	*Fraxinus pennsylvanica*	FACW
Lakebank Sedge	*Carex lacustris*	OBL
Rough-Leaf Dogwood	*Cornus drummondii*	FAC

The total number of dominant species across all strata was four (4) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 75%. Hydrophytic vegetation indicator is met by the dominance test.

CONCLUSIONS AND RECOMMENDATIONS

In Indiana, *waters of the United States*, including wetlands, are subject to regulation by the Army Corps of Engineers (ACOE) and/or the Indiana Department of Environmental Management (IDEM). Under Sections 404 and 401 of the Clean Water Act, the ACOE and/or the IDEM have jurisdiction over any activity that involves the placement of fill into, and/or excavation of, a delineated *water of the United States.* Wetlands located adjacent to *waters of the United States* or that have a connection to interstate commerce are considered *waters of the United States*.

Sections VI and VII were determined to be isolated waters, and Sections I, II, III, IV, V, and VIII and Drain 1 were determined to be potential *Waters of the United States*. The ACOE is the regulatory authority with regard to wetlands or other *waters of the United States*. *Waters* not regulated under Section 401 and 404 of the Clean Water Act are regulated by the State of Indiana under IC 13-18-22.

Generally, impacts (fill and/or drainage) to federally and state regulated wetland areas will require notification and authorization through the ACOE and IDEM. In general, if impacts are limited to less than 1,500 linear feet (not to exceed 1.0 acre) of a stream channel or 1.0 acre of headwater wetlands or other *waters of the United States*, the project may qualify for authorization under the Regional or Nationwide General Permit Program (RGP & NWP). The general permit program is a simplified process that provides for general permits within a 45 to 60-day time frame. Impacts to greater than 1,500 linear feet of stream channel or 1.0 acre of headwater wetland will require an Individual Permit. The Individual permit process requires a more intensive and lengthy review of the project, practical alternatives analysis, 30-day public notice period, and potential public hearing. The average Individual Permit process will run 4 to 6 months. In either case, permitted impacts will require mitigation or replacement, generally at a ratio greater than that of the area impacted. Normal mitigation ratios are 2:1 replacement for impacts to emergent wetlands; 3:1 for scrub/shrub wetlands; and 4:1 for forested impacts. Impacts to less than 0.10 acre and 300 linear feet of *waters of the United States* typically will not require mitigation but involve submittal of notification to the agencies at least 30 days prior to project initiation.

In order for a wetland to be classified as isolated an approved jurisdictional determination must be provided by the ACOE. Wetland “Class” must be approved by IDEM and typically, a notice of exemption is to be filed with IDEM. Exempt isolated wetlands are “Class I” wetlands and “Class II” wetlands described as the following and may limited to the larger of: 1) the acreage of an individual isolated “Class II” wetland delineated as three-eighths (3/8) acre or less; 2) sixty percent (60%) of the cumulative acreage of all individual isolated “Class II” wetlands delineated as three-eighths (3/8) acre or less. “Exempt” waters of the State (isolated wetlands), typically will not require mitigation but involve submittal of notification to the agencies at least 15 days prior to project initiation. A permit is not required for dredge and fill activities in a “Class II” wetland that is 1) located within the boundaries of a municipality and 2) has a delineated area of not more than three-fourths (3/4) acre. Impacts to “Class II” wetlands that meet these criteria typically will not require mitigation, but involve submittal of notification to the agencies prior to project initiation. For isolated wetlands, impacts to “Class III” wetlands will require an Individual Permit. Non-exempt “Class II” wetlands may qualify for the general permit program analogous to those allowed under the RGP and NWP for minimal impacts, or otherwise requires an Individual

Permit. Compensatory mitigation shall be provided in accordance with the following Table 2:

Table 2. Isolated Wetland Compensatory Mitigation Ratios

Wetland Class	Replacement Class	On-site and In-Lieu Fee Ratio	Off-site Ratio
Class II	Class II or III	1.5 to 1 Non-forested	2 to 1 Non-forested
		2 to 1 Forested	2.5 to 1 Forested
Class III	Class III	2 to 1 Non-forested	2.5 to 1 Non-forested
		2.5 to 1 Forested	3 to 1 Forested

Compensatory mitigation ratios may be lowered to 1 to 1 if the mitigation is completed before the initiation of the wetland activity. Also, exempt isolated wetlands may be used to provide compensatory mitigation for wetlands activities in state regulated wetlands.

SUMMARY OF ACRONYMS AND REFERENCES

Indicator Status Acronyms:

OBL (Obligate Wetland). Occur almost always in wetlands.
FACW (Facultative Wetland). Usually occur in wetlands.
FAC (Facultative). Likely to occur in wetlands or uplands.
FACU (Facultative Upland). Usually occur in uplands.
UPL (Obligate Upland). Occur almost always in uplands.
N/I (No Indicator). Indicator status unavailable.

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APPENDIX A

DATA FORMS

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P1
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland mown lawn

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Festuca rubra*	50	X	FACU
2. *Trifolium repens*	30	X	FACU
3. *Poa pratensis*	20	X	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P1

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/2	100					Silt Loam	

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

Hydric Soil Indicators:

- ____ Histosol (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5)
- ____ 2 cm Muck (A10)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 5 cm Mucky Peat or Peat (S3)
- ____ Sandy Gleyed matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ____ Coast Prairie Redox (A16)
- ____ Dark Surface (S7)
- ____ Iron-Manganese Masses (F12)
- ____ Very Shallow Dark Surface (TF12)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____

Depth (in.) ____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ____ Surface water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ True Aquatic Plants (B14)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Gauge or Well Data (D9)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage patterns (B10)
- ____ Dry-Season Water table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	____	No	X	Depths (inches): ____
Water Table Present?	Yes	____	No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes	____	No	X	Depths (inches): >24

Wetland Hydrology Present? Yes ____ **No** X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P2
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland scrub/shrub

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Juniperus virginiana*	20	X	FACU
2.			
3.			
4.			
5.			
	20 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	15	X	FAC
2. *Quercus palustris*	10	X	FACW
3. *Pyrus calleryana*	10	X	UPL
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Solidago canadensis*	50	X	FACU
2. *Dipsacus fullonum*	20	X	FACU
3. *Toxicodendron radicans*	15		FAC
4. *Apocynum cannabinum*	10		FAC
5. *Cornus drummondii*	10		FAC
6.			
7.			
8.			
9.			
10			
	105 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	____ = Total Cover		

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P2

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/2	98	10YR 4/6	2	C	M	Silty Clay Loam	
12-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P3
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	10	X	FAC
2.			
3.			
4.			
5.			
	10 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	100	X	FAC
2.			
3.			
4.			
5.			
	100 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Rubus flagellaris*	30	X	FACU
2. *Sanicula odorata*	20	X	FAC
3. *Agrimonia parviflora*	20	X	FACW
4. *Fraxinus pennsylvanica*	20	X	FACW
5. *Carex molesta*	10		FAC
6.			
7.			
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

	Rapid Test for Hydrophytic Vegetation
X	Dominance Test > 50%
	Prevalence Index is ≤ 3.0[1]
	Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P3

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	
9-24	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P4
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland old field

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	10	X	FAC
2.			
3.			
4.			
5.			
	10 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Toxicodendron radicans*	40	X	FAC
2. *Dipsacus fullonum*	30	X	FACU
3. *Melilotus officinalis*	20	X	FACU
4. *Cornus drummondii*	10		FAC
5.			
6.			
7.			
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P4

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
10-24	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P5
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** X **No**
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	10	X	FAC
2.			
3.			
4.			
5.			
	10 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	50	X	FAC
2. *Fraxinus pennsylvanica*	40	X	FACW
3.			
4.			
5.			
	90 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Glyceria striata*	40	X	OBL
2. *Agrimonia parviflora*	15	X	FACW
3. *Carex vulpinoidea*	15	X	FACW
4. *Cornus drummondii*	10		FAC
5. *Fraxinus pennsylvanica*	10		FACW
6. *Vernonia gigantea*	5		FAC
7. *Scirpus pendulus*	5		OBL
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 6 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

	Rapid Test for Hydrophytic Vegetation
X	Dominance Test > 50%
	Prevalence Index is ≤ 3.0[1]
	Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P5

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features				Texture	Remarks
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]		
0-12	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	
12-24	10YR 5/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
X	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	0	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P6
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland shrubby old field

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	20	X	FAC
2. *Rosa carolina*	10	X	FACU
3. *Fraxinus pennsylvanica*	5		FACW
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Solidago canadensis*	40	X	FACU
2. *Eupatorium altissimum*	20	X	FACU
3. *Lotus corniculatus*	10		FACU
4. *Cornus racemosa*	10		FAC
5. *Dipsacus fullonum*	10		FACU
6. *Apocynum cannabinum*	5		FAC
7. *Carex molesta*	5		FAC
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 25 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P6

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 5/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
9-24	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P7
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested Wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fraxinus pennsylvanica*	20	X	FACW
2.			
3.			
4.			
5.			
	20 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	50	X	FACW
2. *Cornus drummondii*	20	X	FAC
3.			
4.			
5.			
	70 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	20	X	FAC
2. *Carex molesta*	15	X	FAC
3. *Agrimonia parviflora*	15	X	FACW
4. *Symphyotrichum lateriflorum*	10		FACW
5. *Apocynum cannabinum*	10		FAC
6. *Carex radiata*	5		FAC
7. *Carya laciniosa*	5		FACW
8. *Ulmus americana*	5		FACW
9. *Toxicodendron radicans*	5		FAC
10			
	90 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 6 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P7

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay	
14-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P8
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Drain | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: R4SB
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes**	**No** X
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Drain 1 – Intermittent Drain identified as an Unnamed Tributary to the Salamonie River. The drain was 4 feet wide with no water flowing at the time of delineation. Delineated at the ordinary high water mark (OHWM), 8 inches above the flow line.

Vegetation – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size): 30-ft radius			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Fraxinus pennsylvanica*	10	X	FACW
2. *Galium aparine*	5	X	FACU
3. *Glyceria striata*	5	X	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10			
	20 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
X Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P8

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
10-16	10YR 5/2	95	10YR 5/6	5	C	M	Silty Clay Loam	
16-24	10YR 5/1	95	10YR 5/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
X	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):	
Water Table Present?	Yes		No	X	Depths (inches):	
Saturation Present? (includes capillary fringe)	Yes	X	No		Depths (inches):	0

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Delineated at the ordinary high water mark (OHWM), 8 inches above the flow line., Defined bed and bank.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P9
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	40	X	FACU
2. *Quercus alba*	20	X	FACU
3. *Celtis occidentalis*	20	X	FAC
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Lonicera tatarica*	50	X	FACU
2.			
3.			
4.			
5.			
	50	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Lonicera tatarica*	20	X	FACU
2. *Circaea canadensis*	20	X	FACU
3. *Sanicula odorata*	10		FAC
4. *Toxicodendron radicans*	5		FAC
5. *Rosa multiflora*	5		FACU
6.			
7.			
8.			
9.			
10			
	60	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 17 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL **Sampling Point: T1P9**

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1	100					Loam	
4-							Cobblestone	

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

Hydric Soil Indicators:

- ____ Histosol (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5)
- ____ 2 cm Muck (A10)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 5 cm Mucky Peat or Peat (S3)
- ____ Sandy Gleyed matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ____ Coast Prairie Redox (A16)
- ____ Dark Surface (S7)
- ____ Iron-Manganese Masses (F12)
- ____ Very Shallow Dark Surface (TF12)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____

Depth (in.) ____

Hydric Soil Present? Yes ____ No X

Remarks: Soil appeared to be fill material overlying cobblestone from the nearby railroad.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ____ Surface water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ True Aquatic Plants (B14)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Gauge or Well Data (D9)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage patterns (B10)
- ____ Dry-Season Water table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depths (inches): ____

Water Table Present? Yes ____ No X Depths (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No X Depths (inches): ____

Wetland Hydrology Present? Yes ____ **No** X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T1P10
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland between Section I and Drain 1.

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus alba*	40	X	FACU
2. *Carya laciniosa*	20	X	FACW
3. *Quercus palustris*	15		FACW
4. *Aesculus glabra*	15		FAC
5.			
	90	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	15	X	FAC
2. *Crataegus crus-galli*	15	X	FAC
3.			
4.			
5.			
	30	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	30	X	FACU
2. *Podophyllum peltatum*	25	X	FACU
3. *Sanicula odorata*	15		FAC
4. *Viola sororia*	10		FACW
5. *Persicaria virginiana*	10		FAC
6.			
7.			
8.			
9.			
10			
	90	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T1P10

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T2P1
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: PSS1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** X **No**
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Section I – Scrub/Shrub wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	20	X	FAC
2. *Quercus palustris*	10	X	FACW
3.			
4.			
5.			
	30	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	40	X	FAC
2. *Quercus palustris*	10		FACW
3. *Catalpa speciosa*	10		FACU
4.			
5.			
	60	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Toxicodendron radicans*	30	X	FAC
2. *Carex vulpinoidea*	20	X	FACW
3. *Agrimonia parviflora*	20	X	FACW
4. *Sanicula odorata*	20	X	FAC
5. *Dipsacus fullonum*	10		FACU
6. *Carex molesta*	10		FAC
7. *Juncus tenuis*	5		FAC
8.			
9.			
10			
	115	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 7 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

	Rapid Test for Hydrophytic Vegetation
X	Dominance Test > 50%
	Prevalence Index is ≤ 3.0[1]
	Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T2P1

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	
8-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T2P2
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland old field

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Platanus occidentalis*	10	X	FACW
2.			
3.			
4.			
5.			
	10 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	35	X	FAC
2. *Juniperus virginiana*	10	X	FACU
3. *Fraxinus pennsylvanica*	5		FACW
4.			
5.			
	50 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Dipsacus fullonum*	25	X	FACU
2. *Eupatorium altissimum*	20	X	UPL
3. *Apocynum cannabinum*	15		FAC
4. *Agrimonia parviflora*	10		FACW
5. *Toxicodendron radicans*	10		FAC
6.			
7.			
8.			
9.			
10			
	80 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 40 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T2P2

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	
8-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T2P3
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: PFO/SS1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	15	X	FACW
2.			
3.			
4.			
5.			
	15 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	15	X	FACW
2. *Ulmus americana*	10	X	FACW
3. *Hypericum prolificum*	10	X	FACU
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Poa pratensis*	30	X	FAC
2. *Carex radiata*	30	X	FAC
3. *Fraxinus pennsylvanica*	15		FACW
4. *Rubus allegheniensis*	10		FACU
5. *Toxicodendron radicans*	5		FAC
6. *Euthamia graminifolia*	5		FACW
7. *Sanicula odorata*	5		FAC
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
____ Rapid Test for Hydrophytic Vegetation
X Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T2P3

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-11	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
11-24	10YR 5/2	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T2P4
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	40	X	FACU
2. *Carya laciniosa*	20	X	FACW
3. *Prunus serotina*	20	X	FACU
4.			
5.			
	80	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Carya laciniosa*	15	X	FACW
2. *Malus coronaria*	10	X	UPL
3. *Cornus drummondii*	5		FAC
4.			
5.			
	30	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	70	X	FAC
2. *Circaea canadensis*	20	X	FACU
3. *Fraxinus americana*	10		FACU
4.			
5.			
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 42 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T2P4

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/2	100					Silt Loam	
12-24	10YR 5/2	90	10YR 4/6	10	C	M	Silt Loam	

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

Hydric Soil Indicators:

- ____ Histosol (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5)
- ____ 2 cm Muck (A10)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 5 cm Mucky Peat or Peat (S3)
- ____ Sandy Gleyed matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ____ Coast Prairie Redox (A16)
- ____ Dark Surface (S7)
- ____ Iron-Manganese Masses (F12)
- ____ Very Shallow Dark Surface (TF12)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____

Depth (in.) ____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ____ Surface water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ True Aquatic Plants (B14)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Gauge or Well Data (D9)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage patterns (B10)
- ____ Dry-Season Water table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	____	No	X	Depths (inches): ____
Water Table Present?	Yes	____	No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes	____	No	X	Depths (inches): >24

Wetland Hydrology Present? Yes ____ **No** X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T2P5
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	40	X	FACU
2. *Prunus serotina*	15	X	FACU
3. *Malus coronaria*	10		UPL
4.			
5.			
	65	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus americana*	10	X	FACU
2. *Lonicera morrowii*	10	X	FACU
3.			
4.			
5.			
	20	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	50	X	FAC
2. *Persicaria virginiana*	30	X	FAC
3. *Circaea canadensis*	20	X	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 29 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

_____ Rapid Test for Hydrophytic Vegetation
_____ Dominance Test > 50%
_____ Prevalence Index is ≤ 3.0[1]
_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
_____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T2P5

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/1	100					Silty Clay Loam	
6-14	10YR 5/1	98	10YR 5/6	2	C	M	Silty Clay Loam	
14-24	10YR 5/2	95	10YR 5/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T2P6
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	40	X	FAC
2. *Quercus palustris*	15	X	FACW
3. *Fraxinus pennsylvanica*	15	X	FACW
4.			
5.			
	70	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	40	X	FACW
2. *Quercus rubra*	10		FACU
3. *Quercus alba*	10		FACU
4.			
5.			
	60	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Carex granularis*	20	X	FACW
2. *Galium palustre*	20	X	OBL
3. *Carex vulpinoidea*	20	X	FACW
4. *Quercus alba*	10		FACU
5. *Persicaria virginiana*	10		FAC
6. *Quercus palustris*	5		FACW
7. *Fraxinus pennsylvanica*	5		FACW
8.			
9.			
10			
	90	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 7 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

	Rapid Test for Hydrophytic Vegetation
X	Dominance Test > 50%
	Prevalence Index is ≤ 3.0[1]
	Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T2P6

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 3/1	90	10YR 4/6	10	C	M	Silty Clay	
16-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)		Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)	X	Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)	X	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):	
Water Table Present?	Yes		No	X	Depths (inches):	>24
Saturation Present? (includes capillary fringe)	Yes	X	No		Depths (inches):	14

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P1
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?**	**Yes**	**No** X
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes		No	X			

Remarks: Upland shrubby old field

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	50	X	FAC
2. *Elaeagnus umbellata*	15	X	UPL
3. *Rosa multiflora*	10		FACU
4.			
5.			
	75 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Toxicodendron radicans*	50	X	FAC
2. *Eupatorium altissimum*	30	X	UPL
3. *Erigeron annuus*	3		FACU
4. *Dianthus armeria*	2		UPL
5.			
6.			
7.			
8.			
9.			
10			
	85 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	100	x 3 =	300
FACU species	13	x 4 =	52
UPL species	47	x 5 =	235
Column Totals:	160 (A)		587 (B)
Prevalence Index = B/A =			3.67

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P1

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 4/2	100					Silty Clay Loam	
6-24	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P2
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO/SS1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	40	X	FACW
2. *Ulmus americana*	20	X	FACW
3.			
4.			
5.			
	60	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	10	X	FACW
2.			
3.			
4.			
5.			
	10	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Carex vulpinoidea*	15	X	FACW
2. *Glyceria striata*	10	X	OBL
3. *Scirpus pendulus*	10	X	OBL
4. *Fraxinus pennsylvanica*	5		FACW
5. *Carex scoparia*	5		FACW
6.			
7.			
8.			
9.			
10			
	45	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 6 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

	Rapid Test for Hydrophytic Vegetation
X	Dominance Test > 50%
	Prevalence Index is ≤ 3.0[1]
	Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P2

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/2	85	10YR 4/6	15	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ___

Depth (in.) ___

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ___ Surface water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage patterns (B10)
- ___ Dry-Season Water table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depths (inches): ___
Water Table Present?	Yes	___	No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depths (inches): >24

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P3
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	80	X	FACU
2.			
3.			
4.			
5.			
	80 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Rosa multiflora*	40	X	FACU
2. *Cornus drummondii*	30	X	FAC
3. *Fraxinus pennsylvanica*	10		FACW
4.			
5.			
	80 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	50	X	FAC
2. *Circaea canadensis*	20	X	FACU
3. *Rubus occidentalis*	10		UPL
4. *Impatiens capensis*	5		FACW
5. *Persicaria virginiana*	5		FAC
6. *Vitis aestivalis*	5		FACU
7.			
8.			
9.			
10			
	95 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9. *Parthenocissus quinquefolia*	10	X	FACU
10			
	10 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- ____ Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P3

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/2	100					Silty Clay Loam	
8-24	10YR 5/2	95	10YR 5/6	5	C	M	Silty Clay	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P4
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	80	X	FACW
2.			
3.			
4.			
5.			
	80 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	40	X	FACW
2.			
3.			
4.			
5.			
	40 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Quercus palustris*	30	X	FACW
2. *Glyceria striata*	15	X	OBL
3. *Symphyotrichum lanceolata*	10		FAC
4. *Carex lacustris*	5		OBL
5. *Carex vulpinoidea*	5		FACW
6.			
7.			
8.			
9.			
10			
	65 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P4

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No	X	Depths (inches):	
Water Table Present?	Yes	No	X	Depths (inches):	>24
Saturation Present? (includes capillary fringe)	Yes	No	X	Depths (inches):	>24

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P5
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	60	X	FACU
2. *Quercus alba*	20	X	FACU
3.			
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Malus coronaria*	30	X	UPL
2. *Gleditsia triacanthos*	20	X	FACU
3.			
4.			
5.			
	50	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Podophyllum peltatum*	40	X	FACU
2. *Parthenocissus quinquefolia*	30	X	FACU
3. *Persicaria virginiana*	20	X	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10			
	90	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 14 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL **Sampling Point: T3P5**

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? **Yes** **No** X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/11/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P6
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section III – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	80	X	FACW
2.			
3.			
4.			
5.			
	80 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Ulmus americana*	30	X	FACW
2. *Quercus palustris*	10	X	FACW
3.			
4.			
5.			
	40 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Quercus palustris*	5	X	FACW
2. *Toxicodendron radicans*	2	X	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	7 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P6

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/2	85	10YR 4/6	15	C	M	Silty Clay Loam	
8-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)	X	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/11/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P7
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	40	X	FACU
2. *Malus coronaria*	20	X	UPL
3. *Ulmus americana*	20	X	FACW
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Lonicera morrowii*	40	X	FACU
2. *Fraxinus pennsylvanica*	10		FACW
3. *Ulmus americana*	10		FACW
4.			
5.			
	60	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Persicaria virginiana*	55	X	FAC
2. *Sanicula odorata*	15		FAC
3. *Impatiens capensis*	15		FACW
4. *Rosa multiflora*	10		FACU
5. *Toxicodendron radicans*	5		FAC
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 40 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P7

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
12-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P8
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	80	X	FACW
2.			
3.			
4.			
5.			
	80 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Rhamnus cathartica*	30	X	FAC
2. *Crataegus mollis*	20	X	FAC
3.			
4.			
5.			
	50 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	20	X	FAC
2. *Rubus occidentalis*	15	X	UPL
3. *Lycopus americanus*	10	X	OBL
4. *Persicaria virginiana*	10	X	FAC
5. *Carex cephaloidea*	10	X	FACU
6. *Impatiens capensis*	5		FACW
7.			
8.			
9.			
10			
	70 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 6 (A)
Total Number of Dominant Species Across All Strata: 8 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P8

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	
18-24	10YR 4/1	80	10YR 4/6	20	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
X	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):	
Water Table Present?	Yes		No	X	Depths (inches):	>24
Saturation Present? (includes capillary fringe)	Yes	X	No		Depths (inches):	0

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P9
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	70	X	FACW
2. *Crataegus crus-galli*	10		FAC
3.			
4.			
5.			
	80	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	30	X	FACW
2. *Lonicera morrowii*	10	X	FACU
3.			
4.			
5.			
	40	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	50	X	FACU
2. *Circaea canadensis*	40	X	FACU
3. *Persicaria virginiana*	10		FAC
4.			
5.			
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9. *Parthenocissus quinquefolia*	20	X	FACU
10			
	20	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P9

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	95	10YR 5/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P10
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Section IV – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	20	X	FACW
2. *Ulmus americana*	20	X	FACW
3.			
4.			
5.			
	40	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Ulmus americana*	30	X	FACW
2. *Fraxinus pennsylvanica*	10	X	FACW
3. *Crataegus crus-galli*	10	X	FAC
4.			
5.			
	40	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Fraxinus pennsylvanica*	5	X	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	5	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 6 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
X Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P10

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	
14-24	10YR 5/1	95	10YR 5/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P11
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): Convex
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	40	X	FACU
2. *Carya laciniosa*	30	X	FACW
3.			
4.			
5.			
	70	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Lonicera tatarica*	15	X	FACU
2. *Aesculus glabra*	10	X	FAC
3. *Carpinus caroliniana*	10	X	FAC
4.			
5.			
	35	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	60	X	FACU
2. *Fraxinus pennsylvanica*	20	X	FACW
3. *Lonicera tatarica*	20	X	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- ____ Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P11

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1	100					Loam	
4-							Cobblestone	

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

Hydric Soil Indicators:

- ____ Histosol (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5)
- ____ 2 cm Muck (A10)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 5 cm Mucky Peat or Peat (S3)
- ____ Sandy Gleyed matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ____ Coast Prairie Redox (A16)
- ____ Dark Surface (S7)
- ____ Iron-Manganese Masses (F12)
- ____ Very Shallow Dark Surface (TF12)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____

Depth (in.) ____

Hydric Soil Present? Yes ____ No X

Remarks: Soil appeared to be fill material overlying cobblestone from the nearby railroad.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ____ Surface water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ True Aquatic Plants (B14)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Gauge or Well Data (D9)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage patterns (B10)
- ____ Dry-Season Water table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depths (inches): ____

Water Table Present? Yes ____ No X Depths (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No X Depths (inches): ____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/11/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P12
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): Convex
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Brookston-Glynwood Complex | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus alba*	60	X	FACU
2. *Prunus serotina*	30	X	FACU
3. *Carya ovata*	10		FACU
4.			
5.			
	100	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Lonicera morrowii*	20	X	FACU
2. *Aesculus glabra*	10	X	FAC
3. *Fraxinus pennsylvanica*	10	X	FACW
4. *Lindera benzoin*	10	X	FACW
5.			
	50	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	30	X	FACU
2. *Sanicula odorata*	25	X	FAC
3. *Cryptotaenia canadensis*	10		FAC
4. *Arisaema triphyllum*	5		FACW
5.			
6.			
7.			
8.			
9.			
10			
	70	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 8 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P12

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 2/1	95	10YR 4/6	5	C	M	Silt Loam	
10-24	10YR 3/1	90	10YR 5/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)		Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)	X	Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/11/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P13
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: PFO1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section II – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	10	X	FACW
2.			
3.			
4.			
5.			
	10 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	20	X	FACW
2.			
3.			
4.			
5.			
	20 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	10	X	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	10 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T3P13

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	95	10YR 4/6	5	C	M	Silty Clay Loam	
6-24	10YR 3/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)		Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)	X	Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P14
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Drain | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Glynwood silt loam | NWI classification: R4SB
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Drain 1 – Intermittent Drain identified as an Unnamed Tributary to the Salamonie River. The drain was 6 feet wide with no water flowing at the time of delineation. Delineated at the ordinary high water mark (OHWM), 8 inches above the flow line. Defined bed and bank.

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	= Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: ____ (A)

Total Number of Dominant Species Across All Strata: ____ (B)

Percent of Dominant Species That are OBL, FACW, or FAC: (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
No vegetation present below the OHWM

SOIL **Sampling Point: T3P14**

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	80	10YR 4/6	20	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
X	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):	
Water Table Present?	Yes		No	X	Depths (inches):	
Saturation Present? (includes capillary fringe)	Yes	X	No		Depths (inches):	0

Wetland Hydrology Present? **Yes** X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Delineated at the ordinary high water mark (OHWM), 8 inches above the flow line., Defined bed and bank.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T3P15
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Glynwood silt loam | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	50	X	FACU
2. *Tilia americana*	20	X	FACU
3. *Quercus alba*	20	X	FACU
4. *Aesculus glabra*	10		FAC
5.			
	100	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Acer saccharum*	10	X	FACU
2. *Aesculus glabra*	5	X	FAC
3.			
4.			
5.			
	15	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	10	X	FACU
2. *Fraxinus pennsylvanica*	10	X	FACW
3. *Asarum canadense*	5	X	FACU
4. *Sanicula odorata*	5	X	FAC
5. *Carya laciniosa*	5	X	FACW
6. *Rosa multiflora*	5	X	FACU
7. *Hydrophyllum macrophyllum*	5	X	UPL
8.			
9.			
10			
	45	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 12 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL **Sampling Point: T3P15**

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-11	10YR 3/1	100					Silty Clay Loam	
11-24	10YR 5/2	95	10YR 5/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)		Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? **Yes** **No** X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P1
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharum*	80	X	FACU
2. *Ulmus americana*	20	X	FACW
3.			
4.			
5.			
	100	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Aesculus glabra*	40	X	FAC
2.			
3.			
4.			
5.			
	40	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Circaea canadensis*	45	X	FACU
2. *Sanicula odorata*	40	X	FAC
3. *Asarum canadense*	10		FACU
4. *Parthenocissus quinquefolia*	5		FACU
5.			
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
X Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P1

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 4/1	100					Silt Loam	
10-24	10YR 4/2	100					Silt Loam	

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

Hydric Soil Indicators:

- ____ Histosol (A1)
- ____ Histic Epipedon (A2)
- ____ Black Histic (A3)
- ____ Hydrogen Sulfide (A4)
- ____ Stratified Layers (A5)
- ____ 2 cm Muck (A10)
- ____ Depleted Below Dark Surface (A11)
- ____ Thick Dark Surface (A12)
- ____ Sandy Mucky Mineral (S1)
- ____ 5 cm Mucky Peat or Peat (S3)
- ____ Sandy Gleyed matrix (S4)
- ____ Sandy Redox (S5)
- ____ Stripped Matrix (S6)
- ____ Loamy Mucky Mineral (F1)
- ____ Loamy Gleyed Matrix (F2)
- ____ Depleted matrix (F3)
- ____ Redox Dark Surface (F6)
- ____ Depleted Dark Surface (F7)
- ____ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ____ Coast Prairie Redox (A16)
- ____ Dark Surface (S7)
- ____ Iron-Manganese Masses (F12)
- ____ Very Shallow Dark Surface (TF12)
- ____ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ____

Depth (in.) ____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ____ Surface water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ True Aquatic Plants (B14)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Gauge or Well Data (D9)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage patterns (B10)
- ____ Dry-Season Water table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- ____ Geomorphic Position (D2)
- ____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	____	No	X	Depths (inches): ____
Water Table Present?	Yes	____	No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes	____	No	X	Depths (inches): >24

Wetland Hydrology Present? Yes ____ **No** X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P2
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	50	X	FACW
2.			
3.			
4.			
5.			
	50 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus americana*	30	X	FACU
2.			
3.			
4.			
5.			
	30 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Carex lacustris*	50	X	OBL
2. *Glyceria striata*	20	X	OBL
3. *Galium circaezans*	20	X	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10			
	90 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P2

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	
10-24	10YR 3/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P3
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	50	X	FACW
2. *Carya laciniosa*	30	X	FACW
3.			
4.			
5.			
	80	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	50	X	FACW
2.			
3.			
4.			
5.			
	50	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Carex lacustris*	50	X	OBL
2. *Toxicodendron radicans*	30	X	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	80	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P3

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No	X	Depths (inches):	
Water Table Present?	Yes	No	X	Depths (inches):	>24
Saturation Present? (includes capillary fringe)	Yes	No	X	Depths (inches):	>24

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P4
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharum*	50	X	FACU
2. *Carya ovata*	30	X	FACU
3.			
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Aesculus glabra*	30	X	FAC
2. *Lindera benzoin*	10	X	FACW
3.			
4.			
5.			
	40	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	50	X	FAC
2. *Parthenocissus quinquefolia*	30	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	80	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

_____ Rapid Test for Hydrophytic Vegetation
_____ Dominance Test > 50%
_____ Prevalence Index is ≤ 3.0[1]
_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
_____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P4

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	
12-24	10YR 5/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P5
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section I – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus palustris*	70	X	FACW
2. *Ulmus americana*	10	X	FACW
3.			
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	30	X	FACW
2. *Carpinus caroliniana*	20	X	FAC
3.			
4.			
5.			
	50	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Glyceria striata*	5	X	OBL
2. *Parthenocissus quinquefolia*	2	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	7	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P5

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/1	90	10YR 4/6	10	C	M	Silty Clay Loam	
10-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P6
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	60	X	FACU
2.			
3.			
4.			
5.			
	60 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Carpinus caroliniana*	30	X	FAC
2. *Fraxinus pennsylvanica*	10	X	FACW
3.			
4.			
5.			
	40 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Circaea canadensis*	45	X	FACU
2. *Solidago canadensis*	40	X	FACU
3. *Parthenocissus quinquefolia*	5		FACU
4. *Rosa multiflora*	5		FACU
5. *Persicaria virginiana*	5		FAC
6.			
7.			
8.			
9.			
10			
	100 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 40 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL **Sampling Point: T4P6**

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P7
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Blount-Glynwood Complex | NWI classification: PFO1A
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section VIII – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	60	X	FAC
2.			
3.			
4.			
5.			
	60 = Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Lindera benzoin*	40	X	FACW
2. *Carpinus caroliniana*	20	X	FAC
3. *Fraxinus pennsylvanica*	10		FACW
4.			
5.			
	70 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Lindera benzoin*	5	X	FACW
2. *Fraxinus pennsylvanica*	5	X	FACW
3. *Parthenocissus quinquefolia*	5	X	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10			
	15 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P7

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No	X	Depths (inches):	
Water Table Present?	Yes	No	X	Depths (inches):	>24
Saturation Present? (includes capillary fringe)	Yes	No	X	Depths (inches):	>24

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/11/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P8
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharum*	80	X	FACU
2. *Aesculus glabra*	10		FAC
3.			
4.			
5.			
	90	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Cornus drummondii*	5	X	FAC
2. *Carya laciniosa*	5	X	FACW
3. *Ulmus americana*	5	X	FACW
4.			
5.			
	15	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	30	X	FACU
2. *Circaea canadensis*	30	X	FACU
3. *Lindera benzoin*	20		FACW
4. *Sanicula odorata*	10		FAC
5. *Fraxinus pennsylvanica*	10		FACW
6. *Asarum canadense*	10		FACU
7.			
8.			
9.			
10			
	110	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- ____ Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P8

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 3/1	100					Silty Clay Loam	
9-14	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
14-24	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/11/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P9
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section VIII – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Carya laciniosa*	60	X	FACW
2. *Quercus bicolor*	20	X	FACW
3.			
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Ulmus americana*	15	X	FACW
2. *Carpinus caroliniana*	10	X	FAC
3. *Fraxinus pennsylvanica*	5		FACW
4.			
5.			
	30	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Fraxinus pennsylvanica*	5	X	FACW
2. *Persicaria virginiana*	3	X	FAC
3. *Impatiens capensis*	2	X	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10			
	10	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 7 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P9

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 3/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
9-14	10YR 3/1	80	10YR 4/6	20	C	M	Silty Clay Loam	
14-24	10YR 4/1	80	10YR 4/6	20	C	M	Silty Clay	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)		Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)	X	Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes X No

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P10
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** _____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Carya laciniosa*	60	X	FACW
2. *Quercus rubra*	20	X	FACU
3.			
4.			
5.			
	80	= Total Cover	
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	20	X	FACW
2. *Acer saccharum*	10	X	FACU
3. *Aesculus glabra*	5		FAC
4. *Ulmus americana*	5		FACW
5.			
	40	= Total Cover	
Herb Stratum (Plot size): 5-ft radius			
1. *Persicaria virginiana*	60	X	FAC
2. *Carex vulpinoidea*	15		FACW
3. *Glechoma hederacea*	15		FACU
4. *Parthenocissus quinquefolia*	15		FACU
5. *Circaea canadensis*	10		FACU
6.			
7.			
8.			
9.			
10			
	115	= Total Cover	
Woody Vine Stratum (Plot size): 30-ft radius			
9. *Parthenocissus quinquefolia*	10	X	FACU
10			
	10	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** _____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P10

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10YR 4/1	98	10YR 4/6	2	C	M	Silty Clay Loam	
14-24	10YR 4/1	85	10YR 4/6	15	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P11
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharum*	40	X	FACU
2. *Quercus rubra*	40	X	FACU
3.			
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Acer saccharum*	20	X	FACU
2. *Prunus serotina*	10	X	FACU
3. *Lindera benzoin*	10	X	FACW
4. *Fraxinus pennsylvanica*	5		FACW
5.			
	45	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Sanicula odorata*	60	X	FAC
2. *Circaea canadensis*	30	X	FACU
3. *Aesculus glabra*	5		FAC
4.			
5.			
6.			
7.			
8.			
9.			
10			
	95	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 28 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P11

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/2	100					Silty Clay Loam	
6-12	10YR 4/2	98	10YR 4/6	2	C	M	Silty Clay Loam	
12-24	10YR 5/2	95	10YR 5/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes	No X	Depths (inches):		
Water Table Present?	Yes	No X	Depths (inches):	>24	
Saturation Present? (includes capillary fringe)	Yes	No X	Depths (inches):	>24	

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P12
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Pewamo silty clay | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section V - Forested wetland located in an old oxbow

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Lindera benzoin*	5	X	FACW
2.			
3.			
4.			
5.			
	5 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Impatiens capensis*	5	X	FACW
2. *Persicaria virginiana*	3	X	FAC
3. *Circaea canadensis*	2	X	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10			
	10 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ____ Rapid Test for Hydrophytic Vegetation
- X Dominance Test > 50%
- ____ Prevalence Index is ≤ 3.0[1]
- ____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P12

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/1	90	10YR 4/6	10	C	M	Silty Clay	
8-24	10YR 4/1	80	10YR 4/6	20	C	M	Silty Clay	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
X	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):	
Water Table Present?	Yes		No	X	Depths (inches):	
Saturation Present? (includes capillary fringe)	Yes	X	No		Depths (inches):	0

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P13
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Glynwood silt loam | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?**	**Yes** X	**No**
Hydric Soil Present?	Yes	X	No				
Wetland Hydrology Present?	Yes	X	No				

Remarks: Section VII – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Ulmus americana*	20	X	FACW
2. *Fraxinus pennsylvanica*	15	X	FACW
3.			
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	10	X	FACU
2. *Carex molesta*	10	X	FAC
3. *Fraxinus pennsylvanica*	5		FACW
4. *Carex lacustris*	5		OBL
5. *Cornus drummondii*	5		FAC
6.			
7.			
8.			
9.			
10			
	35 = Total Cover		
Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

	Rapid Test for Hydrophytic Vegetation
X	Dominance Test > 50%
	Prevalence Index is ≤ 3.0[1]
	Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P13

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					Silty Clay Loam	
6-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
X	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)	X	Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)	X	FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
X	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):	
Water Table Present?	Yes		No	X	Depths (inches):	
Saturation Present? (includes capillary fringe)	Yes	X	No		Depths (inches):	6

Wetland Hydrology Present? Yes X **No**

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/6/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P14
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Glynwood Silt Loam | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	60	X	FACU
2. *Prunus serotina*	20	X	FACU
3.			
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Fraxinus pennsylvanica*	15	X	FACW
2. *Aesculus glabra*	10	X	FAC
3. *Rosa multiflora*	10	X	FACU
4.			
5.			
	35	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Parthenocissus quinquefolia*	60	X	FACU
2. *Sanicula odorata*	20	X	FAC
3. *Fraxinus pennsylvanica*	10		FACW
4. *Trillium sessile*	5		FACU
5. *Galium aparine*	5		FACU
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9. *Parthenocissus quinquefolia*	10	X	FACU
10			
	10	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 42 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P14

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/1	100					Silty Clay Loam	
8-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)	X	Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Secondary Indicators (minimum of two required)

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P15
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Glynwood Silt Loam | NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampled Area Within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes		No	X	

Remarks: Upland forest

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	40	X	FACU
2. *Carya laciniosa*	20	X	FACW
3. *Acer saccharum*	20	X	FACU
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Acer saccharum*	50	X	FACU
2. *Ulmus americana*	15	X	FACW
3. *Aesculus glabra*	10		FAC
4.			
5.			
	75	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Circaea canadensis*	50	X	FACU
2. *Parthenocissus quinquefolia*	20	X	FACU
3. *Toxicodendron radicans*	20	X	FAC
4. *Sanicula odorata*	10		FAC
5.			
6.			
7.			
8.			
9.			
10			
	100	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 8 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 38 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
____ Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P15

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-11	10YR 3/2	95	10YR 4/6	5	C	M	Silty Clay Loam	
11-24	10YR 4/1	95	10YR 4/6	5	C	M	Silty Clay Loam	

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

Hydric Soil Indicators:

	Histosol (A1)		Sandy Gleyed matrix (S4)		Coast Prairie Redox (A16)
	Histic Epipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)
	Black Histic (A3)		Stripped Matrix (S6)		Iron-Manganese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)		Very Shallow Dark Surface (TF12)
	Stratified Layers (A5)		Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
	2 cm Muck (A10)		Depleted matrix (F3)		
X	Depleted Below Dark Surface (A11)	X	Redox Dark Surface (F6)		[3]Indicators of hydrophytic vegetation and
	Thick Dark Surface (A12)		Depleted Dark Surface (F7)		wetland hydrology must be present,
	Sandy Mucky Mineral (S1)		Redox Depressions (F8)		unless disturbed or problematic.
	5 cm Mucky Peat or Peat (S3)				

Indicators for Problematic Hydric Soils[3]:

Restrictive Layer (if observed):

Type:

Depth (in.)

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

				Secondary Indicators (minimum of two required)	
	Surface water (A1)		Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
	High Water Table (A2)		Aquatic Fauna (B13)		Drainage patterns (B10)
	Saturation (A3)		True Aquatic Plants (B14)		Dry-Season Water table (C2)
	Water marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
	Sediment Deposits (B2)		Oxidized Rhizospheres on Living roots (C3)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
	Iron Deposits (B5)		Thin Muck Surface (C7)		FAC-Neutral Test (D5)
	Inundation Visible on Aerial Imagery (B7)		Gauge or Well Data (D9)		
	Sparsely Vegetated Concave Surface (B8)		Other (Explain in Remarks)		

Field Observations:

Surface Water Present?	Yes		No	X	Depths (inches):
Water Table Present?	Yes		No	X	Depths (inches): >24
Saturation Present? (includes capillary fringe)	Yes		No	X	Depths (inches): >24

Wetland Hydrology Present? Yes No X

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Jay County Property | City/County: Portland/Jay | Sample Date: 6/7/2024
Applicant/Owner: Jay County Development Corporation | State: IN | Sample Point: T4P16
Investigator(s): Ashlee N. Nichter, Katelyn L. Gutwein | Section: Township, Range: Section 19: T23N, R14E
Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): 0 | Lat: 40.431217° | Long: -85.006968° | Datum: WGS 84
Soil Map Unit Name: Glynwood Silt Loam | NWI classification: PFO1C
Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampled Area Within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes	X	No		
Wetland Hydrology Present?	Yes	X	No		

Remarks: Section VI – Forested wetland

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	40	X	FACW
2. *Quercus rubra*	30	X	FACU
3. *Quercus bicolor*	10		FACW
4.			
5.			
	80	= Total Cover	

Sapling/Shrub Stratum (Plot size): 15-ft radius			
1. *Quercus bicolor*	40	X	FACW
2. *Aesculus glabra*	10	X	FAC
3.			
4.			
5.			
	50	= Total Cover	

Herb Stratum (Plot size): 5-ft radius			
1. *Fraxinus pennsylvanica*	5	X	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10			
	5	= Total Cover	

Woody Vine Stratum (Plot size): 30-ft radius			
9.			
10			
		= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That are OBL, FACW, or FAC: 80 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species		x 1 =	
FACW species		x 2 =	
FAC species		x 3 =	
FACU species		x 4 =	
UPL species		x 5 =	
Column Totals:	(A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation
X Dominance Test > 50%
____ Prevalence Index is ≤ 3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: T4P16

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 2/1	95	10YR 4/6	5	C	M	Silty Clay Loam	
8-24							Cobblestone	

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

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: ___

Depth (in.) ___

Hydric Soil Present? Yes X No ___

Remarks: Cobblestone appears to be from nearby railroad

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)

- ___ Surface water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage patterns (B10)
- ___ Dry-Season Water table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depths (inches): ___
Water Table Present?	Yes	___	No	X	Depths (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depths (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

APPENDIX B

SITE PHOTOGRAPHS

APPENDIX B
JAY COUNTY PROPERTY: JAY COUNTY, INDIANA

1. View west of mown lawn at data point T1P1. 6/6/2024.

3. View west of Section I at data point T1P3. 6/6/2024.

2. View south of shrubby old field at data point T1P2. 6/6/2024.

4. View of water marks in Section I near data point T1P3. 6/6/2024.

APPENDIX B
JAY COUNTY PROPERTY: JAY COUNTY, INDIANA

5. View east of shrubby old field at data point T1P4. 6/6/2024.

7. View south of Section I. 6/6/2024.

6. View north of Section I at data point T1P5. 6/6/2024.

8. View north of shrubby old field at data point T1P6. 6/6/2024.

9. View south of Section I at data point T1P7. 6/6/2024.

11. View south of upland forest at data point T1P9. 6/6/2024.

10. View east of Drain 1 at data point T1P8. 6/6/2024.

12. View west of upland forest at data point T1P10. 6/7/2024.

APPENDIX B
JAY COUNTY PROPERTY: JAY COUNTY, INDIANA

13. View south of Section I at data point T2P1. 6/6/2024.

15. View south of Section I at data point T2P3. 6/6/2024.

14. View south of shrubby old field at data point T2P2. 6/6/2024.

16. View north of upland forest at data point T2P4. 6/6/2024.

17. View east of upland forest at data point T2P5. 6/6/2024.

19. View north of shrubby old field at data point T3P1. 6/6/2024.

18. View south of Section I at data point T2P6. 6/6/2024.

20. View east of Section I at data point T3P2. 6/6/2024.

21. View west of upland forest at data point T3P3. 6/6/2024.

23. View north of upland forest at data point T3P5. 6/6/2024.

22. View east of Section I at data point T3P4. 6/6/2024.

24. View north of Section III at data point T3P6. 6/11/2024.

25. View south of Section III. 6/11/2024.

27. View east of upland forest at data point T3P9. 6/6/2024.

26. View east of Section I at data point T3P8. 6/6/2024.

28. View north of Section IV at data point T3P10. 6/11/2024.

29. View south of Section IV at data point T3P10. 6/11/2024.

31. View west of upland forest at data point T3P12. 6/11/2024.

30. View south of upland forest at data point T3P11. 6/6/2024.

32. View east of Section II at data point T3P13. 6/11/2024.

33. View west of Section II. 6/6/2024.

35. View south of culvert under the railroad. 6/6/2024.

34. View west of Drain 1 at data point T3P14. 6/6/2024.

36. View west of Drain 1 off-site. 6/7/2024.

37. View north of upland forest at data point T3P15. 6/6/2024.

39. View east of Section I at data point T4P2. 6/6/2024.

38. View south of upland forest at data point T4P1. 6/6/2024.

40. View south of Section I at data point T4P3. 6/6/2024.

41. View north of upland forest at data point T4P4. 6/6/2024.

43. View west of upland forest at data point T4P6. 6/6/2024.

42. View north of Section I at data point T4P5. 6/6/2024.

44. View west of Section VIII at data point T4P7. 6/6/2024.

45. View south of upland forest at data point T4P8. 6/11/2024.

47. View north of Section VIII. 6/11/2024.

46. View east of Section VIII at data point T4P9. 6/11/2024.

48. View south of upland forest at data point T4P10. 6/6/2024.

49. View north of upland forest at data point T4P11. 6/7/2024.

51. View east of Section V at data point T4P12. 6/7/2024.

50. View west of Section V at data point T4P12. 6/7/2024.

52. View east of Section VII at data point T4P13. 6/6/2024.

53. View west of upland forest at data point T4P14. 6/6/2024.

55. View north of Section VI at data point T4P16. 6/7/2024.

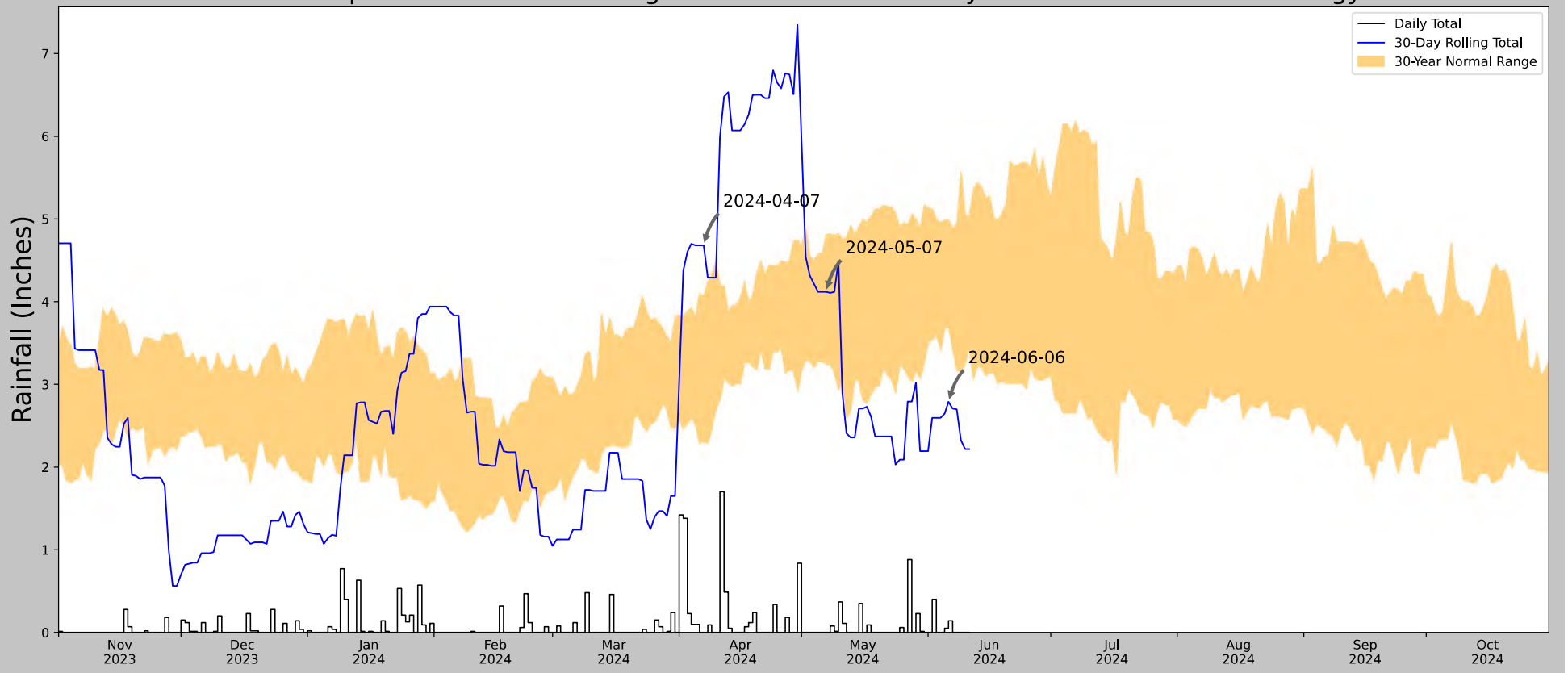
54. View south of upland forest at data point T4P15. 6/7/2024.

56. View east of Section VI. 6/7/2024.

APPENDIX C

“TYPICAL YEAR” PRECIPITATION DATA

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	40.431217, -85.006968
Observation Date	2024-06-06
Elevation (ft)	918.577
Drought Index (PDSI)	Mild drought (2024-05)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-06-06	3.682677	4.984646	2.787402	Dry	1	3	3
2024-05-07	3.244095	4.812205	4.11811	Normal	2	2	4
2024-04-07	2.305906	4.054331	4.681103	Wet	3	1	3
Result							Normal Conditions - 10

US Army Corps of Engineers.

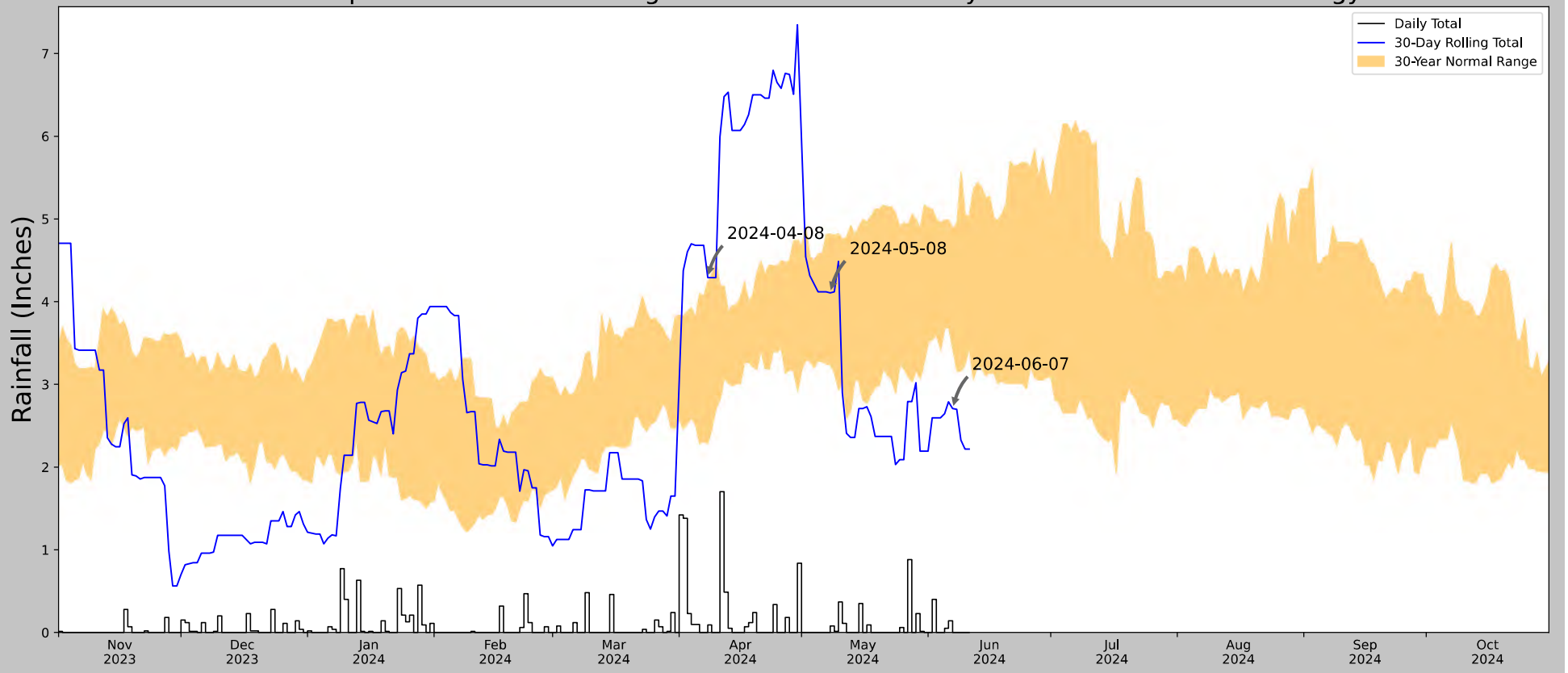
ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
HARTFORD CITY 4 ESE	40.4356, -85.2892	923.885	14.846	5.308	6.759	11049	90
(KD9GWL) HARTFORD CITY 0.6 NE	40.4587, -85.3629	910.105	4.191	13.78	1.944	3	0
(KC9CGY) HARTFORD CITY 0.5 SSE	40.4462, -85.3663	892.06	4.12	31.825	1.985	5	0
HARTFORD CITY 0.2 NNW (WB9HLA)	40.4555, -85.3743	920.932	4.681	2.953	2.12	5	0
HARTFORD CITY 4.8 NW	40.5069, -85.4275	886.155	8.781	37.73	4.283	3	0
UPLAND 1 S	40.4667, -85.5	924.869	11.29	0.984	5.092	127	0
MUNCIE DELAWARE CO AP	40.2344, -85.3936	936.024	14.95	12.139	6.909	157	0
FARMLAND 5 NNW	40.2539, -85.1483	964.895	14.583	41.01	7.16	3	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	40.431217, -85.006968
Observation Date	2024-06-07
Elevation (ft)	918.577
Drought Index (PDSI)	Mild drought (2024-05)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-06-07	3.420079	4.880315	2.708662	Dry	1	3	3
2024-05-08	3.235827	4.819291	4.106299	Normal	2	2	4
2024-04-08	2.279528	4.231496	4.291339	Wet	3	1	3
Result							Normal Conditions - 10

US Army Corps of Engineers.

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
HARTFORD CITY 4 ESE	40.4356, -85.2892	923.885	14.846	5.308	6.759	11049	90
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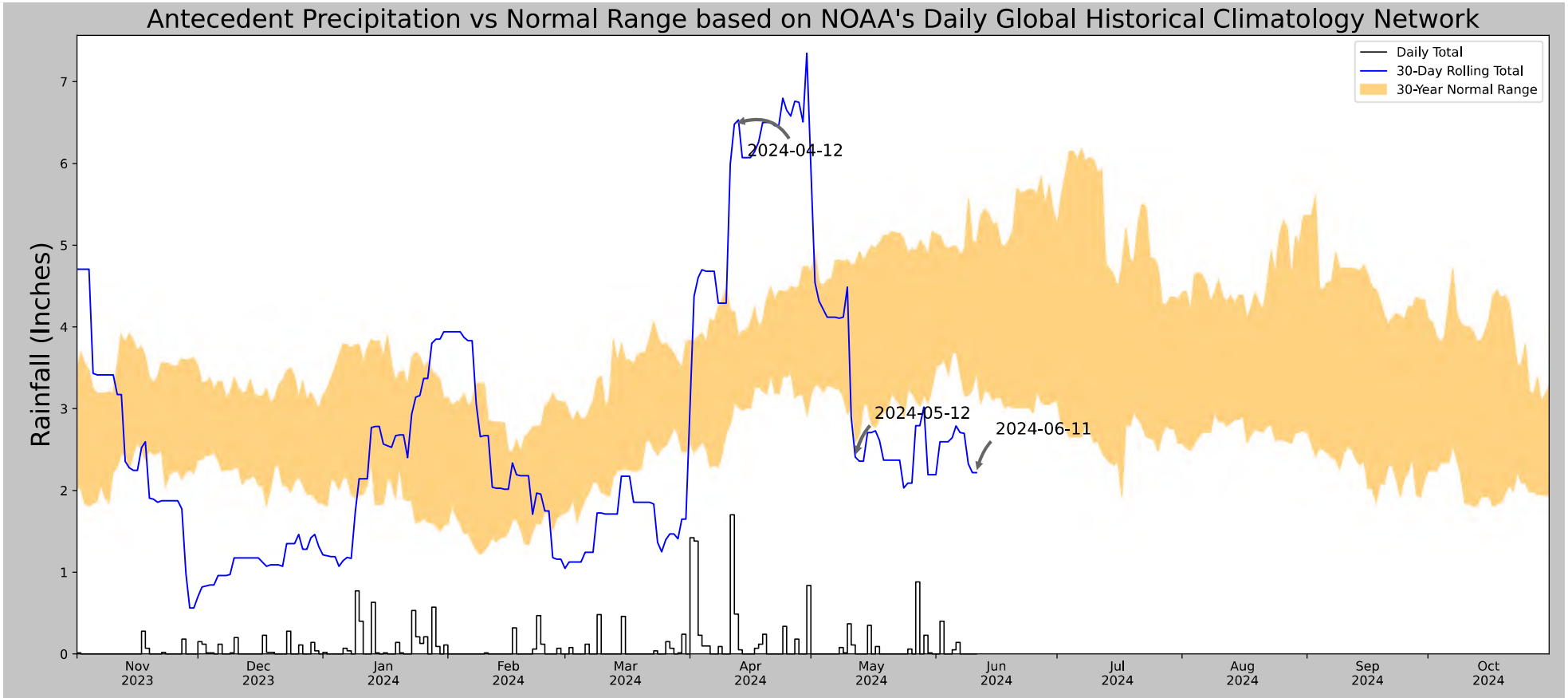
HARTFORD CITY 0.2 NNW (WB9HLA)	40.4555, -85.3743	920.932	4.681	2.953	2.12	5	0
HARTFORD CITY 4.8 NW	40.5069, -85.4275	886.155	8.781	37.73	4.283	3	0
UPLAND 1 S	40.4667, -85.5	924.869	11.29	0.984	5.092	127	0
MUNCIE DELAWARE CO AP	40.2344, -85.3936	936.024	14.95	12.139	6.909	157	0
FARMLAND 5 NNW	40.2539, -85.1483	964.895	14.583	41.01	7.16	3	0



Coordinates	40.431217, -85.006968
Observation Date	2024-06-11
Elevation (ft)	918.577
Drought Index (PDSI)	Mild drought (2024-05)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-06-11	3.452756	5.025984	2.216536	Dry	1	3	3
2024-05-12	2.586221	4.784252	2.409449	Dry	1	2	2
2024-04-12	3.07441	4.179528	6.480315	Wet	3	1	3
Result							Drier than Normal - 8

US Army Corps of Engineers.

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
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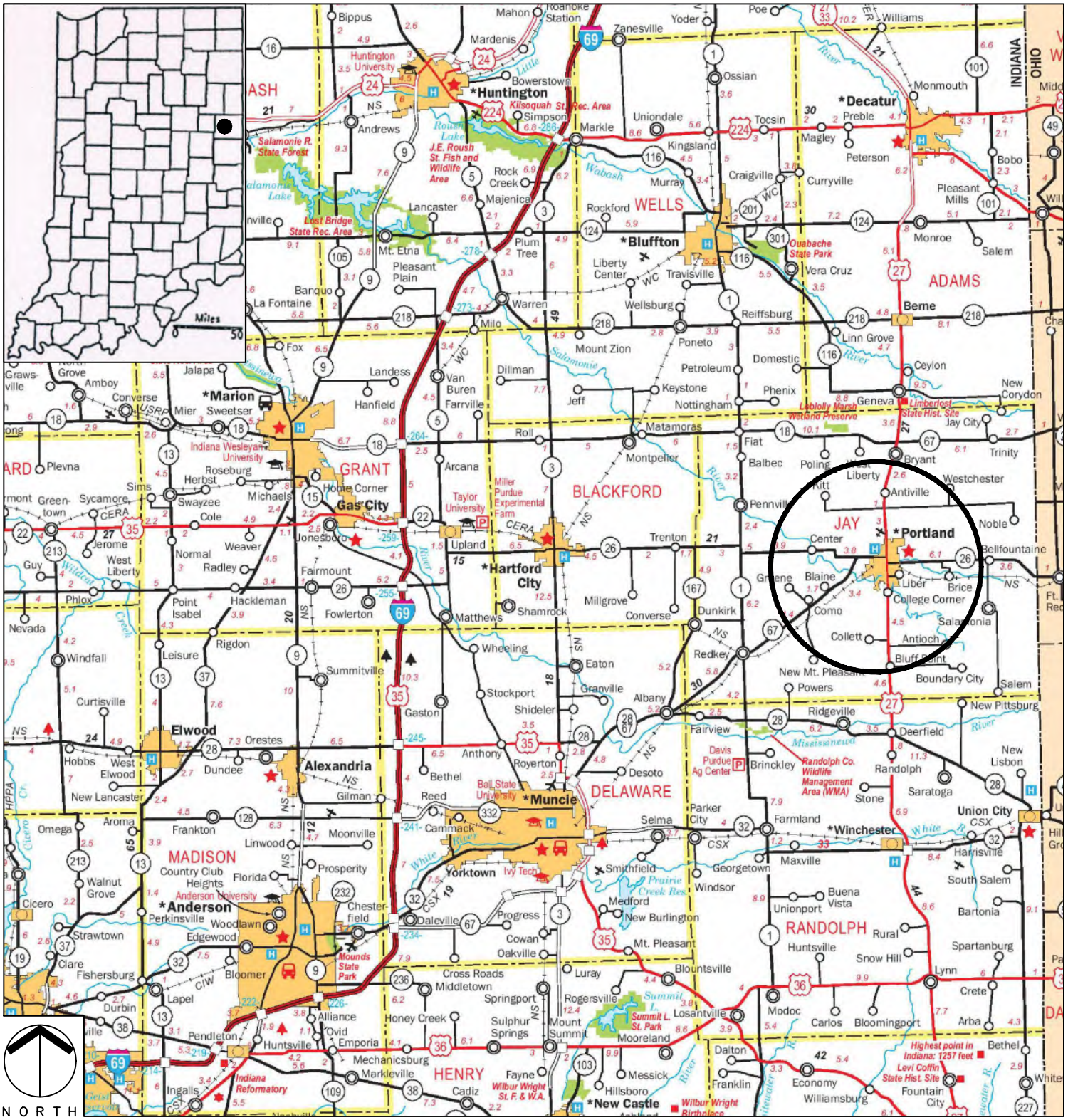
HARTFORD CITY 0.2 NNW (WB9HLA)	40.4555, -85.3743	920.932	4.681	2.953	2.12	5	0
HARTFORD CITY 4.8 NW	40.5069, -85.4275	886.155	8.781	37.73	4.283	3	0
UPLAND 1 S	40.4667, -85.5	924.869	11.29	0.984	5.092	127	0
MUNCIE DELAWARE CO AP	40.2344, -85.3936	936.024	14.95	12.139	6.909	157	0
FARMLAND 5 NNW	40.2539, -85.1483	964.895	14.583	41.01	7.16	3	0

DELINEATION GRAPHICS



Project Name: JAY COUNTY PROPERTY	
Agent:	

Earth·Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 office@earthsourceinc.net

REGIONAL LOCATION MAP

0 10 MI 20 MI

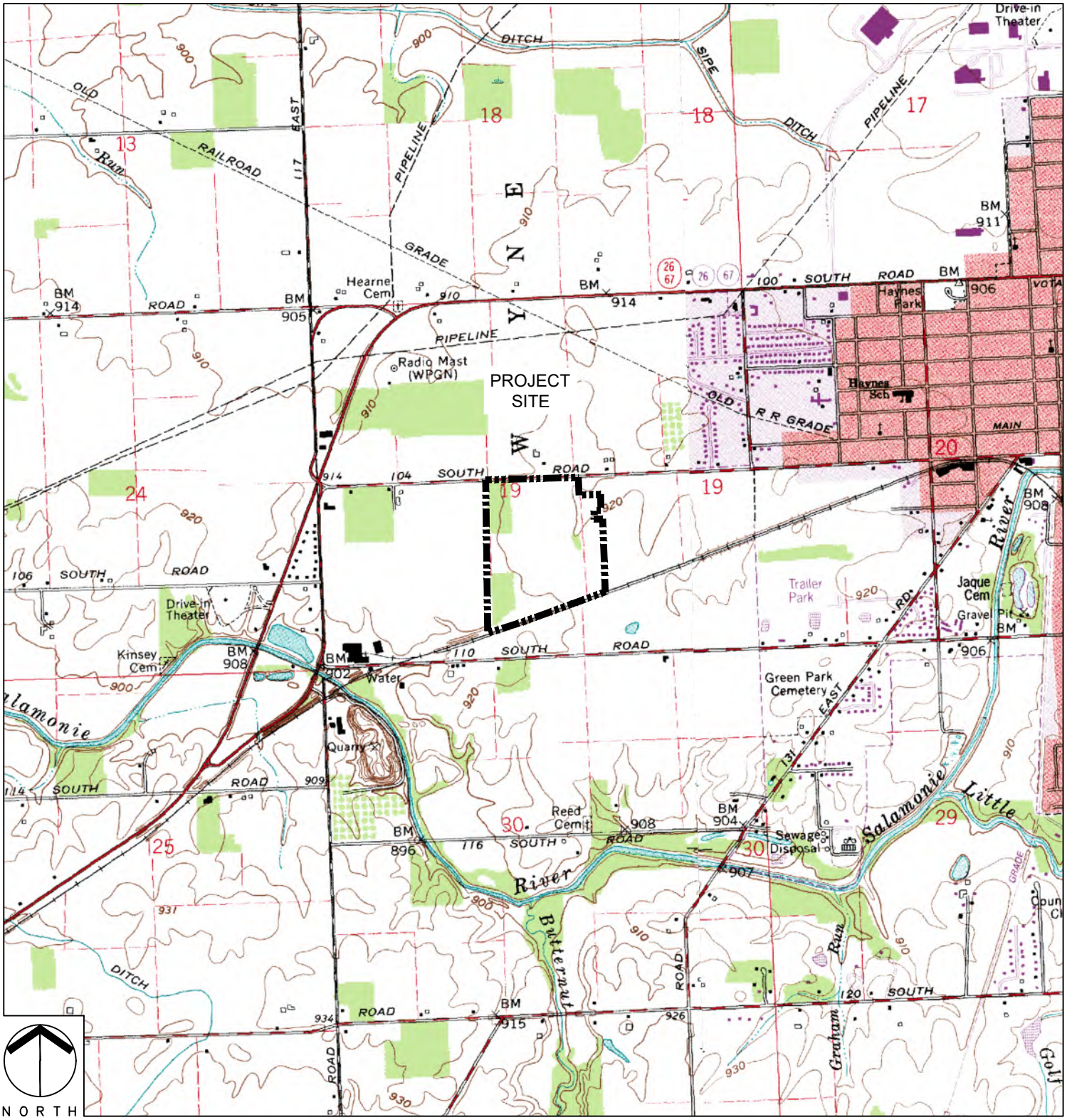
Scale 1 IN = 10 MI

Applicant:

JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State: INDIANA		County: JAY
Township Name: WAYNE		
Township: T23N	Range: R14E	Section: SEC 19
Quadrangle: BLAINE (IN)		
Latitude/Longitude (WGS 84): 40.431217°, -85.006968°		
Date: 6-17-2024		Attachment: J1

Basemap: Indiana Department of Transportation. Indiana Roadway Map 2021. Indianapolis, Indiana



Project Name: JAY COUNTY PROPERTY	
Agent:	

Earth·Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 office@earthsourceinc.net

PROJECT LOCATION MAP

0 — 2,000 FT — 4,000 FT

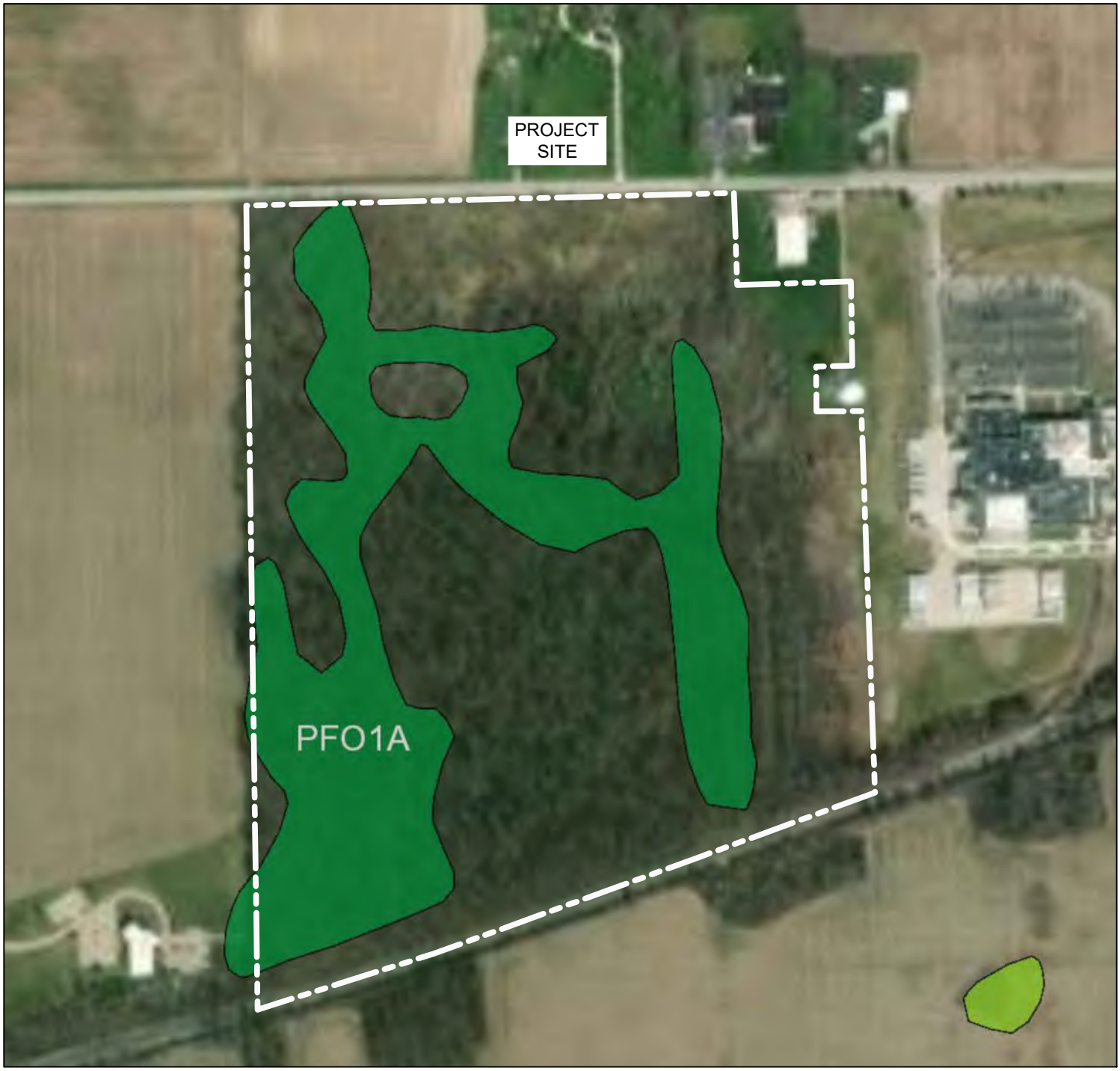
Scale 1 IN = 2,000 FT

Applicant:

JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State: INDIANA		County: JAY
Township Name: WAYNE		
Township: T23N	Range: R14E	Section: SEC 19
Quadrangle: BLAINE (IN)		
Latitude/Longitude (WGS 84): 40.431217°, -85.006968°		
Date: 6-17-2024		Attachment: J2

Basemap: U.S. Geological Survey. 1960, minor revision 1994. Blaine Quadrangle. 1:24,000. Map. 7.5-Minute Series. U.S. Department of the Interior. Reston, VA.



NORTH

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Project Name:
JAY COUNTY PROPERTY

Agent:

Earth·Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 office@earthsourceinc.net

NATIONAL WETLANDS INVENTORY MAP

0 400 FT 800 FT

Scale 1 IN = 400 FT

Applicant:
JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State:	County:
INDIANA	JAY

Township Name: WAYNE

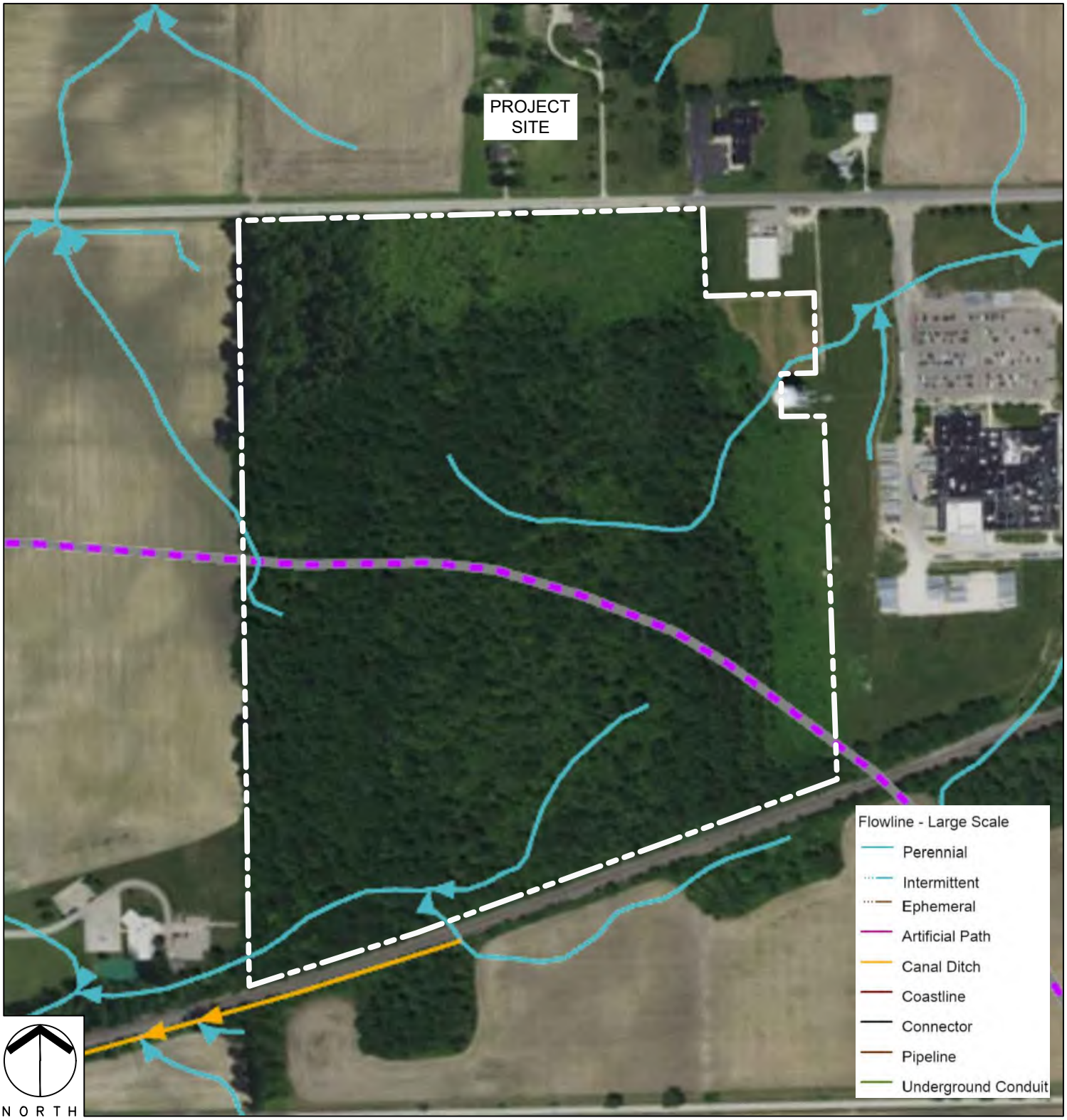
Township:	Range:	Section:
T23N	R14E	SEC 19

Quadrangle: BLAINE (IN)

Latitude/Longitude (WGS 84): 40.431217°, -85.006968°

Date:	Attachment:
6-17-2024	J3

Basemap: U.S. Fish and Wildlife Service. 2022. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service. Washington, D.C. http://www.fws.gov/wetlands/. Accessed 3/12/2024.



Project Name: JAY COUNTY PROPERTY	
Agent: Earth·Source Inc 14921 Hand Road, Fort Wayne, IN 46818 (260) 489-8511 office@earthsourceinc.net	

NATIONAL HYDROGRAPHY DATASET

0 400 FT 800 FT

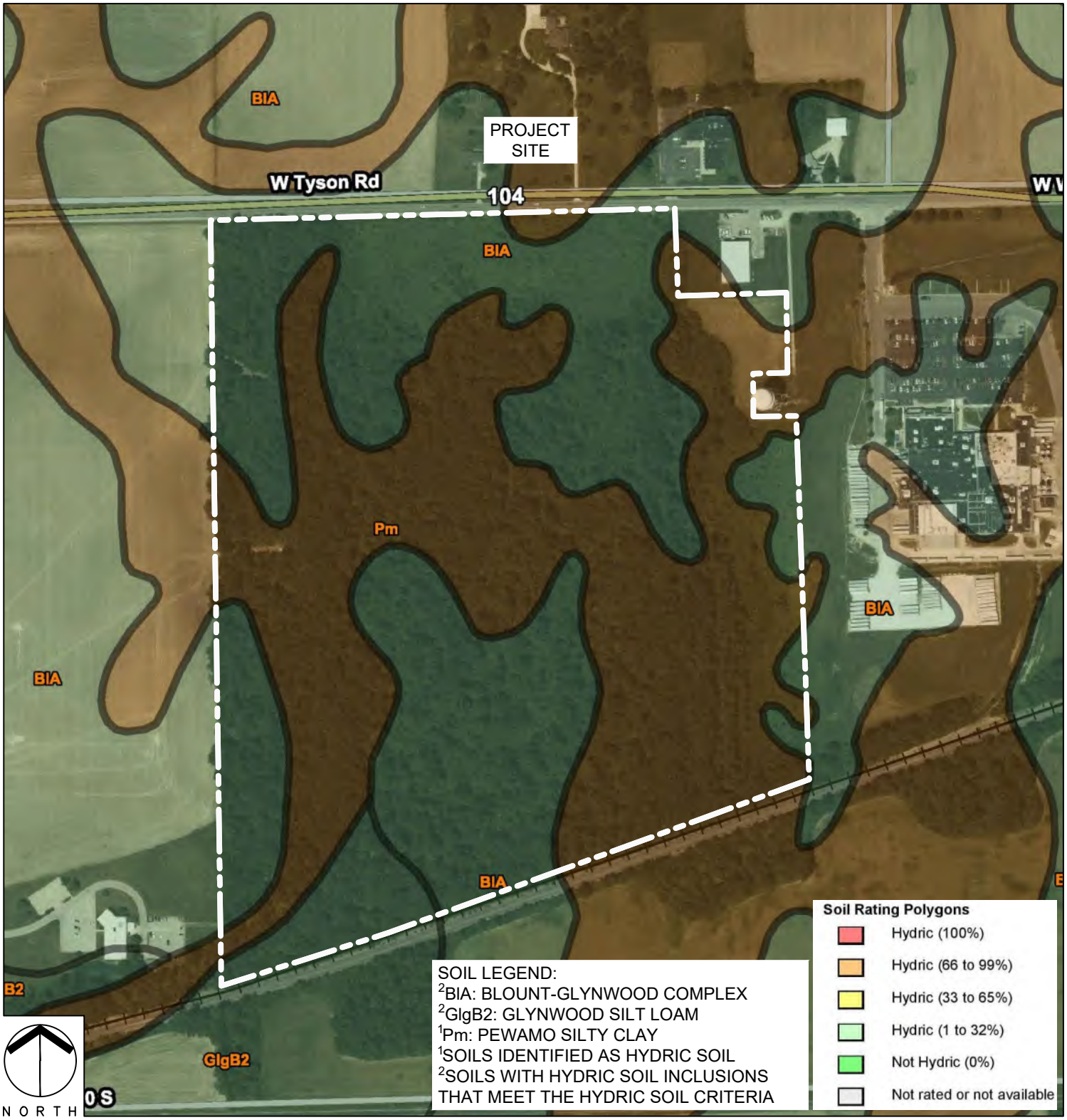
Scale 1 IN = 400 FT

Applicant:

JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State: INDIANA		County: JAY
Township Name: WAYNE		
Township: T23N	Range: R14E	Section: SEC 19
Quadrangle: BLAINE (IN)		
Latitude/Longitude (WGS 84): 40.431217°, -85.006968°		
Date: 6-17-2024		Attachment: J4

Basemap: U.S. Geological Survey. 2022. USGS TNM Hydrography (NHD). https://apps.nationalmap.gov/viewer/. Accessed 3/12/2024.



Project Name:	JAY COUNTY PROPERTY
Agent:	Earth·Source Inc 14921 Hand Road, Fort Wayne, IN 46818 (260) 489-8511 office@earthsourceinc.net

JAY COUNTY
SOIL SURVEY MAP

0 400 FT 800 FT

Scale 1 IN = 400 FT

Applicant:
JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State: INDIANA		County: JAY
Township Name: WAYNE		
Township: T23N	Range: R14E	Section: SEC 19
Quadrangle: BLAINE (IN)		
Latitude/Longitude (WGS 84): 40.431217°, -85.006968°		
Date: 6-17-2024		Attachment: J5

Basemap: Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at the following link: http://websoilsurvey.sc.egov.usda.gov/. Accessed 3/12/2024.

Project Name:	JAY COUNTY PROPERTY
Agent:	Earth·Source Inc 14921 Hand Road, Fort Wayne, IN 46818 (260) 489-8511 office@earthsourceinc.net

2022 AERIAL PHOTOGRAPH MAP

0 400 FT 800 FT

Scale 1 IN = 400 FT

Applicant:

JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State: INDIANA		County: JAY
Township Name: WAYNE		
Township: T23N	Range: R14E	Section: SEC 19
Quadrangle: BLAINE (IN)		
Latitude/Longitude (WGS 84): 40.431217°, -85.006968°		
Date: 6-17-2024		Attachment: J6

Basemap: Farm Service Agency. 2022 Aerial. National Agriculture Imagery Program. U.S. Department of Agriculture. Salt Lake City, Utah.

Project Name:
JAY COUNTY PROPERTY

Agent:

Earth·Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 office@earthsourceinc.net

WETLAND DELINEATION MAP

0 200 FT 400 FT

Scale 1 IN = 200 FT

Applicant:
JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State:	County:
INDIANA	JAY

Township Name: WAYNE

Township:	Range:	Section:
T23N	R14E	SEC 19

Quadrangle: BLAINE (IN)

Latitude/Longitude (WGS 84): 40.431217°, -85.006968°

Date:	Attachment:
6-17-2024	J7

Basemap: Farm Service Agency. 2022 Aerial. National Agriculture Imagery Program. U.S. Department of Agriculture. Salt Lake City, Utah.

Project Name:	JAY COUNTY PROPERTY
Agent:	Earth·Source Inc 14921 Hand Road, Fort Wayne, IN 46818 (260) 489-8511 office@earthsourceinc.net

DATA POINT LOCATION MAP

0 — 200 FT — 400 FT

Scale 1 IN = 200 FT

Applicant:

JAY CO. DEVELOPMENT CORP.
118 SOUTH MERIDIAN STREET, SUITE B
PORTLAND, IN 47371

State: INDIANA		County: JAY
Township Name: WAYNE		
Township: T23N	Range: R14E	Section: SEC 19
Quadrangle: BLAINE (IN)		
Latitude/Longitude (WGS 84): 40.431217°, -85.006968°		
Date: 6-17-2024		Attachment: J8

Basemap: Farm Service Agency. 2022 Aerial. National Agriculture Imagery Program. U.S. Department of Agriculture. Salt Lake City, Utah.

LAND PLANNING - LANDSCAPE ARCHITECTURE
CONSTRUCTED WETLANDS - WATERSHED ANALYSIS - HABITAT DESIGN
WETLAND DELINEATION, MITIGATION AND MONITORING
SECTION 10, 401 AND 404 PERMITTING

14921 Hand Road, Ft. Wayne, IN 46818
Phone: (260) 489-8511