

Water Resources Delineation Report

37.7 Acres, KaneSolar02, Lincoln Highway, Kane County, Illinois

December 12, 2022

Prepared for: Horizon Solar Power 330 W Goethe St. Chicago, IL 60610

Prepared by: Davey Resource Group, Inc. 5641 W 73rd Street Indianapolis, IN 46278 317-558-8545



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Executive Summary

The 37.7-acre study area is located south of Lincoln Highway and west of Meredith Road in Kane County, Illinois within Section 3, Township 39 North, Range 6 East. A water resources delineation was performed by Catherine Holland and Kelly Volansky on December 6th, 2022.

The study area encompasses approximately 37.7 acres of agricultural land. The study area consists of an agricultural field.

A map of the location and size of the property is shown in Appendix A. No water resources were identified within the study area.

Introduction

Study Area Description and Location

The 37.7-acre study area is located in Virgil Township, Kane County, Illinois (Appendix B). The area is located west of the intersection of Lincoln Highway and Meredith Road.

The study area contains an agricultural field. An aerial photograph of the study area is included in Appendix D. Surrounding land use is predominantly occupied by agricultural fields.

Secondary Source Information

The study area is shown on the Maple Park Quadrangle of the United States Geological Survey (USGS) map (Appendix E). The study area is between 880 and 855 feet above sea level.

A National Wetlands Inventory (NWI) map showing nearby NWI wetlands is located in Appendix F.

A map from the United States Department of Agriculture Natural Resources Conservation Service Web Soil Survey showing the soil types located on and adjacent to the site is found in Appendix G. The *Hydric Soils of the United States* (1991) was reviewed to determine potential hydric soils identified within the study area. Table 1 provides a list of soil types mapped for the site.

| Map Unit | Soil Description | Hydric Determination ¹ |
|------------------------------|---|-----------------------------------|
| 60D2 | La Rose loam, 10 to 18 percent slopes | Non-hydric |
| 152A | Drummer silty clay loam, 0 to 2 percent slopes | Hydric |
| 198A | Elburn silt loam, 0 to 2 percent slopes | Predominantly Non- hydric |
| 527C2 | Kidami loam, 4 to 6 percent slopes | Non-hydric |
| 656C2 | Octagon silt loam, 4 to 6 percent slopes | Non-hydric |
| 662B | Barony silt loam, 2 to 5 percent slopes | Non-hydric |
| 667B | Kaneville silt loam, 2 to 5 percent slopes | Non-hydric |
| ¹ As determined b | y The Hydric Soils of the United States (1991). | |

Table 1. Soil Types Mapped for the Site

Methodology

The Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (US Army Corps of Engineers 2012) were used in delineating wetlands within the study area. Water resources were delineated and surveyed on December 6th, 2022. The water resources delineation fieldwork, boundary mapping, and data analysis were performed by Catherine Holland and Kelly Volansky. Vegetation, soils, and wetlands maps were prepared using using ArcGIS[™] PRO v.2.8.3. Photopoints, data points, stream lines, and wetland areas were mapped and collected using a Trimble[®] GNSS R1 device.

Streams are identified as linear, flowing water features with a defined bed and bank. Streams are classified as ephemeral, intermittent, or perennial based upon flow regime. Ephemeral streams have flowing water only during, and for a short duration after, precipitation events. Intermittent

streams have flowing water during certain times of the year, when groundwater and rainfall provide water for stream flow. During dry periods intermittent streams may not have flowing water. Perennial streams have flowing water year-round, receiving water from groundwater and rainfall runoff.

Wetlands are identified based on three criteria: vegetation, soils, and hydrology. An area must meet all three criteria to be considered a jurisdictional wetland. Sampling points were established in the field to determine wetlands boundaries. Data sheets reporting the results of soils, vegetation, and hydrology analyses were completed for each sample station and are located in Appendix K.

Soil samples were obtained to determine the extent of hydric soils on the site. A standard Munsell soil color chart was used to determine the hue, value, and chroma of each soil sample. Soil samples were taken to a depth to adequately make a hydric soil determination. Criteria established by the National Technical Committee for Hydric Soils (1991) were used to determine hydric soils.

Wetland hydrology was characterized during this water resources delineation. Inundation and/or soil saturation were noted for each sample point. Other hydrological indicators, including watermarks, drift lines, sediment deposits, wetlands drainage patterns, blackened leaves, morphological indicators, iron/manganese concretions, and oxidized root zones within the upper soil layers, were documented, if observed.

Quantitative vegetation data were collected at each sampling point. Dominance was estimated by percent areal cover. Four strata were considered for each sample point—trees, saplings/shrubs, herbs, and woody vines. Trees were defined as any woody plant having a diameter at breast height (DBH) greater than 3.0 inches. Saplings and shrubs were those woody plants with a DBH of less than 3.0 inches and greater than 3.2 feet in height. For each stratum, plant species within a plot were identified and percent areal cover was estimated for each species. Thirty-foot-radius plots were used for trees and vines; 15-foot-radius plots were used for saplings and shrubs; and 5-foot-radius plots were used for herbs.

Any species within a stratum comprising 20% or more of the total plot areal cover was considered to be dominant. Dominant species within all strata were then added to determine the percentage of wetlands vegetation for each sample point. The wetlands vegetation criterion was met if greater than 50% of the dominant vegetation was indicative of wetlands conditions.

Plants with an indicator status of obligate (OBL), facultative wetland (FACW), or facultative (FAC) were considered to be indicative of wetlands conditions. Plants with an indicator status of facultative upland (FACU) or upland (UPL) were considered to be indicative of upland conditions. Plants that could only be identified to genus were sometimes assigned an indicator status based on the professional judgment of Davey Resource Group. These plants were classified as wetlands indicator species (WIS) or upland indicator species (UIS). See Appendix K for a more detailed explanation of wetlands vegetation indicator statuses.

Wetlands that are hydrologically connected to traditional navigable waters of the United States are considered non-isolated and fall under the federal jurisdiction of the U.S. Army Corps of Engineers (USACE).

Results

WETLANDS

Vegetation

The site contains an agricultural field with hills and valleys. No wetlands were identified during the 2022 site visit. Only one of the 4 data points (DP3) taken met the hydric vegetation criteria. Photograph locations are shown in Appendix A. Photographs showing water resources identified on the site are included in Appendix I. Wetland assessment data forms are included in Appendix K.

Soils

None of the data points taken contained hydric soils.

Hydrology

Hydrology present in the study area derives primarily from overland flow. The emergent wetlands coincide with depressions pooling water within agricultural fields. No primary hydrologic indicators were identified on site. No hydrologic indicators were observed in the vicinity of the wetland determination data points.

Conclusions

Four data points were taken during the December 6^{th} , 2022 site visit. No wetlands were encountered within the study area.

DRG is confident that all jurisdictional wetlands and drainageways were identified on this site. All water resource studies conducted by Davey Resource Group are objective and based strictly on professional judgment. Davey Resource Group and its employees have no vested interest in this property or the proposed project. Appendix L contains references used in the creation of this report.

All wetlands delineations must be verified by the US Army Corps of Engineers to be considered official. This wetlands delineation is reflective of environmental conditions at the time the fieldwork was performed. Wetlands are dynamic natural systems; therefore, boundaries may change slightly over time.

Appendix A: Mapped Water Resources



Appendix B: Location of Project Area on Illinois County Map



Appendix C: Location of Study Area on Highway Map



Appendix D: Location of Study Area on Highway Map



Appendix E: Location of Study Area on USGS 7.5 Minute Topographic Map



Appendix F: Location of Study Area on National Wetland Inventory Map



Appendix G: Location of Study Area on Soil Survey Map



Appendix H National Flood Hazard Layer FIRMette

National Flood Hazard Layer FIRMette



Legend



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Appendix I Site Photographs (12-06-2022)



DP01, View looking north



DP01, View looking east



DP01, View looking south



DP01, View looking west



DP02, View looking north



DP02, View looking east



DP02, View looking south



DP02, View looking west



DP03, View looking north



DP03, View looking east



DP03, View looking south



DP03, View looking west



DP04, View looking north



DP04, View looking east



DP04, View looking south



DP04, View looking west



PP01, View looking east



PP01, View looking south



PP01, View looking west



PP02, View looking north



PP02, View looking east



PP02, View looking south



PP02, View looking west



PP03, View looking north



PP03, View looking east



PP03, View looking south



PP03, View looking west

Appendix J

Definition of Wetlands Vegetation Indicator Status (from Lichvar et al 2016)

Obligate Wetlands (OBL). Almost always is a hydrophyte, rarely in uplands.

Facultative Wetlands (FACW). Usually is a hydrophyte but occasionally found in uplands.

Facultative (FAC). Commonly occurs as either a hydrophyte or non-hydrophyte.

Facultative Upland (FACU). Occasionally is a hydrophyte but usually occurs in uplands.

Obligate Upland (UPL). Rarely is a hydrophyte, almost always in uplands.

Species for which little or no information was available to base an indicator status were assigned a no indicator (NI) status. An asterisk (*) after the indicator status indicates that the indicator status was based on limited ecological information.

The wetlands indicator categories should not be equated to degrees of wetness. Many obligate wetlands species occur in permanently or semipermanently flooded wetlands, but a number of obligates also occur, and some are restricted to wetlands that are only temporarily or seasonally flooded. The facultative upland species include a diverse collection of plants that range from weedy species adapted to exist in a number of environmentally stressful or disturbed sites (including wetlands), to species in which a portion of the gene pool (an ecotype) always occurs in wetlands. Both the weedy and ecotype representatives of the facultative upland category occur in seasonally and semipermanently flooded wetlands.

Davey Resource Group has added two additional indicators for situations when plants can only be identified to genus. A Wetlands Indicator Species (WIS) is a plant that is most likely obligate wetlands, facultative wetlands, or facultative. An Upland Indicator Species (UIS) is a plant that is most likely indicative of upland or facultative upland conditions. These additional indicators are used when species identification is not possible. A variety of factors are part of the UIS and WIS assignments. Indicator statuses of all locally occurring members of the genus in question are considered, as are the health and size of the population and the indicator status of nearby plants.

Appendix K Vegetation, Hydrology, and Soils Data Sheets

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: Kane Solar II | _ City/County: Kane County | Samp | ling Date: 2022-12-06 |
|---|---------------------------------------|--------------------------|------------------------|
| Applicant/Owner: Horizon Solar Power | | State: Illinois Sar | mpling Point: <u>1</u> |
| Investigator(s): Cat Holland, Kelly Volansky | _ Section, Township, Range: <u>S0</u> | 3 T39N R6E | |
| Landform (hillslope, terrace, etc.): Flat | _ocal relief (concave, convex, non | _{e):} None | Slope (%): 0 |
| Subregion (LRR or MLRA): K 95B Lat: 41.889484 | 14 Long: -88. | 5417503 | Datum: NAD 83 |
| Soil Map Unit Name: 152A - Drummer silty clay loam, 0 to 2 | percent slopes | NWI classification: | |
| Are climatic / hydrologic conditions on the site typical for this time of | year? Yes 🔽 No (I | f no, explain in Remarks | s.) |
| Are Vegetation, Soil, or Hydrology significan | tly disturbed? Are "Normal of | Circumstances" present | ? Yes 🖌 No |
| Are Vegetation, Soil, or Hydrology naturally | problematic? (If needed, ex | plain any answers in Re | emarks.) |
| | | | |

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

| Hydrophytic Vegetation Present? Hydric Soil Present? | Yes Yes | No 🔽 | Is the Sampled Area within a Wetland? Yes No |
|---|--------------------|---------------------|---|
| Wetland Hydrology Present? | Yes | No 🔽 | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative proced | lures here or in a | a separate report.) | |

HYDROLOGY

| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
|--|---|
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) Marl Deposits (B15) | 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 Vis ble 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 Sc | pils (C6) Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No 🔽 Depth (inches): | |
| Water Table Present? Ves No 🖌 Depth (inches): | |
| | |
| Saturation Present? Yes <u>No</u> Depth (inches): <u>Constrained</u> | Wetland Hydrology Present? Yes No |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective) | Wetland Hydrology Present? Yes No |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective) | Wetland Hydrology Present? Yes No |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hydrology Present? Yes No tions), if available: |
| Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hydrology Present? Yes No tions), if available: |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No tions), if available: |
| Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No |
| Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No _✓ tions), if available: |
| Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No tions), if available: |
| Water Fable Fresent? Fes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hydrology Present? Yes No _⊻ tions), if available: |
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| Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No tions), if available: |
| Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hydrology Present? Yes No tions), if available: |

VEGETATION – Use scientific names of plants.

Sampling Point: 1

| Trop Stratum (Plot size: 30 ft r) | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------------------|----------------|------------|--|
| Tilia americana | <u>% Cover</u> 80 | <u>species</u> | FACU | Number of Dominant Species |
| 2. Celtis occidentalis | 5 | | FAC | That Are OBL, FACW, or FAC: 0 (A) |
| 2 | | | | Total Number of Dominant |
| 3 | | | | |
| 4 | | · | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B) |
| 5 | | · | | |
| 6 | | · | | Prevalence Index worksheet: |
| / | 0.5% | | | Total % Cover of: Multiply by: |
| 15.64 - | 85% | = Total Cov | /er | OBL species 0 $x_1 = 0$ |
| Sapling/Shrub Stratum (Plot size: 15 ft r) | | | | FACW species 2 $2 = 2$ |
| 1 | | · | | FAC species $\frac{1}{2}$ $$ |
| 2 | | | . <u> </u> | $\frac{1}{100} \frac{1}{100} \frac{1}$ |
| 3 | | · | | Column Totals: 107 (A) 441 (B) |
| 4 | | | | () |
| 5 | | | | Prevalence Index = B/A = |
| 6 | | | | Hydrophytic Vegetation Indicators: |
| 7 | <u> </u> | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | = Total Cov | /er | 2 - Dominance Test is >50% |
| Herb Stratum (Plot size: 5 ft r) | | | | $_$ 3 - Prevalence Index is ≤3.0 ¹ |
| | 20 | ~ | UPL | 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) |
| 2 Symphyotrichum spp. | 2 | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | | | |
| 4 | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 5 | | | | Definitions of Vegetation Strata: |
| 6 | | | | Tree – Woody plants 3 in (7.6 cm) or more in diameter |
| 7 | | | | at breast height (DBH), regardless of height. |
| 8 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 9 | <u> </u> | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 10 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 11 | | | | of size, and woody plants less than 3.28 ft tall. |
| 12 | | | | Woody vines – All woody vines greater than 3.28 ft in |
| | 22% | = Total Cov | /er | height. |
| Woody Vine Stratum (Plot size: 30 ft r) | | | | |
| 1. Vitis riparia | 2 | | FAC | |
| 2 | | | | |
| 3 | | | | Hudronhutio |
| 0 | | · | | Vegetation |
| | 2% | - Total Co | | Present? Yes No V |
| Remarks: (Include photo numbers here or on a separate | sheet) | | /ei | |
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| SOIL | |
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| Profile Desc | ription: (Describe | to the dept | h needed to docu | ment the i | ndicator | or confirm | n the absence of i | ndicators.) | |
|----------------------------|---------------------------------------|--------------|--------------------|-----------------------|------------------------|-------------|---------------------------|--|----------------------|
| Depth (inches) | Color (moist) | % | Color (moist) | ox Features | S Type ¹ | | Texture | Remarks | |
| | | 100 | | /0 | <u> </u> | | | Remarks | |
| 0 - 20 | 1018 3/1 | 100 | | | . <u> </u> | | | | |
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| | | lotion PM-I | Poducod Matrix M | S-Maskor | | | ² Location: Pl | -Poro Lining M-Mat | riv |
| Hydric Soil | Indicators: | | | S=IVIASKEC | | airi5. | Indicators for | Problematic Hvdric | Soils ³ : |
| Histosol | (A1) | | Polvvalue Belo | w Surface | (S8) (LRF | R. | 2 cm Muck | (A10) (LRR K. L. ML | RA 149B) |
| Histic Ep | oipedon (A2) | - | MLRA 149B |) | ()(| , | Coast Prai | irie Redox (A16) (LRR | K, L, R) |
| Black Hi | stic (A3) | - | Thin Dark Surfa | ace (S9) (L | .RR R, MI | LRA 149B) |) 5 cm Muck | ky Peat or Peat (S3) (I | _RR K, L, R) |
| Hydroge | en Sulfide (A4) | - | Loamy Mucky I | Mineral (F | 1) (LRR K | , L) | Dark Surfa | ace (S7) (LRR K, L) | |
| Stratified | d Layers (A5) d Dalaus Darla Curfa | - | Loamy Gleyed | Matrix (F2 | :) | | Polyvalue | Below Surface (S8) (L | .RR K, L) |
| Depleted | a Below Dark Surrac | e (A11) | Depleted Matri | x (F3) Irface (F6) | | | Inin Dark | Sufface (S9) (LRR N, anese Masses (E12) (| L) |
| Sandy M | Aucky Mineral (S1) | - | Depleted Dark | Surface (F | 7) | | Piedmont | Floodplain Soils (F19) | (MLRA 149B) |
| Sandy G | Bleyed Matrix (S4) | - | Redox Depress | sions (F8) | ., | | Mesic Spo | dic (TA6) (MLRA 144 | A, 145, 149B) |
| Sandy R | Redox (S5) | _ | | | | | Red Paren | nt Material (F21) | |
| Stripped | Matrix (S6) | | | | | | Very Shall | ow Dark Surface (TF1 | 2) |
| Dark Su | rface (S7) (LRR R, I | MLRA 149B) |) | | | | Other (Exp | olain in Remarks) | |
| ³ Indicators of | f hydrophytic vegeta | tion and wet | land hydrology mu | st he prese | ent unless | s disturbed | or problematic | | |
| Restrictive I | Layer (if observed) | : | land Hydrology Ind | | | | | | |
| Type: | | | | | | | | | |
| Depth (in | ches). | | | | | | Hydric Soil Pre | sent? Yes | No 🖌 |
| Remarks: | | | | | | | | | |
| Remarks. | | | | | | | | | |
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: Kane Solar II | City/County: Kane Count | <u>у</u> | Sampling Date: 2022-12-06 |
|---|-------------------------------|-------------------------|---------------------------|
| Applicant/Owner: Horizon Solar Power | | State: Illinois | Sampling Point: 2 |
| Investigator(s): Cat Holland, Kelly Volansky | Section, Township, Range: | S03 T39N R6E | |
| Landform (hillslope, terrace, etc.): Depression | ocal relief (concave, convex, | none): Concave | Slope (%): <u>2</u> |
| Subregion (LRR or MLRA): K 95B Lat: 41.8921588 | J Long: - | 88.5422919 | Datum: NAD 83 |
| Soil Map Unit Name: 152A - Drummer silty clay loam, 0 to 2 p | percent slopes | NWI classifica | tion: |
| Are climatic / hydrologic conditions on the site typical for this time of y | ear? Yes 🖌 No | _ (If no, explain in Re | marks.) |
| Are Vegetation, Soil, or Hydrology significantly | y disturbed? Are "Norr | nal Circumstances" pre | esent? Yes 🖌 No |
| Are Vegetation, Soil, or Hydrology naturally pr | oblematic? (If needed | d, explain any answers | in Remarks.) |
| | | | |

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

| Hydrophytic Vegetation Present? Hydric Soil Present? | Yes Yes | No <u>/</u> | Is the Sampled Area within a Wetland? Yes No |
|---|-------------------|---------------------|---|
| vvetland Hydrology Present? | Yes | NO | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative proced | ures here or in a | a separate report.) | |

HYDROLOGY

| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
|---|--|
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) Marl Deposits (B15) | 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 Vis ble 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 So | oils (C6) <u> </u> |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No 🖌 Depth (inches): | |
| Water Table Present? Yes No 🖌 Depth (inches): | |
| Saturation Present? Yes <u>No</u> Depth (inches): <u></u> (includes capillary fringe) | Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec | tions), if available: |
| Demontor | |
| Remarks: | |
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VEGETATION – Use scientific names of plants.

| <u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) | Absolute <u>% Cover</u> | Dominant Indicator Species? Status | Dominance Test worksheet: Number of Dominant Species |
|---|----------------------------|---------------------------------------|---|
| 2 | | | Total Number of Dominant |
| 4 | | | Percent of Dominant Species |
| 5 | | · · | That Are OBL, FACW, or FAC: <u>Nan</u> (A/B) |
| 7 | | | Total % Cover of: Multiply by: |
| Sanling/Shrub Stratum (Plot size: 15 ft r) | | = Total Cover | OBL species $\frac{0}{0}$ $x = \frac{0}{x_2}$ FACW species $\frac{0}{x_2}$ $x = \frac{0}{0}$ |
| 1 | | . <u> </u> | FAC species $\frac{0}{0}$ x 3 = $\frac{0}{0}$ |
| 2 | | · | FACU species 0 $x 4 = 0$ |
| 3 | | · · | Column Totals: $\underline{0}$ (A) $\underline{0}$ (B) |
| 4 5. | _ | | Prevalence Index = B/A = <u>NaN</u> |
| 6 | | | Hydrophytic Vegetation Indicators: |
| 7 | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | = Total Cover | 2 - Dominance Test is >50% |
| Herb Stratum (Plot size: 5 ft r) | | | 4 - Morphological Adaptations ¹ (Provide supporting |
| 1. Zea mays | 100 | <u> </u> | data in Remarks or on a separate sheet) |
| 2 | | · | |
| 3 | | · | ¹ Indicators of hydric soil and wetland hydrology must |
| 4 | | | be present, unless disturbed or problematic. |
| 5 | | | Definitions of Vegetation Strata: |
| 7 | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 8 9. | | · · | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| 10 | | | Herb – All herbaceous (non-woody) plants, regardless |
| 11 | | | of size, and woody plants less than 3.28 ft tall. |
| 12 | 100% | · · | Woody vines – All woody vines greater than 3.28 ft in height. |
| 20 ft r | 100% | = Total Cover | |
| Woody Vine Stratum (Plot size: 30 11) | | | |
| 1 | | · · | |
| 3 | | · | Hudrophytic |
| 4 | | · · | Vegetation |
| | | = Total Cover | Present? Yes No |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | |
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| SOIL |
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| Profile Desc | cription: (Describe | to the dept | th needed to docu | ment the i | ndicator | or confirm | the absence of in | dicators.) |
|---------------------------|-------------------------|--------------|--------------------|------------------------|------------------------|-------------------|----------------------------|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | <u>ox ⊢eature</u> % | s Tvpe ¹ | Loc ² | Texture | Remarks |
| 0 - 22 | 10YR 2/1 | 100 | | | | | Clay Loam | |
| | 1011(2/1 | 100 | | | | | | |
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| ¹ Type: C=C | oncentration, D=De | oletion, RM= | Reduced Matrix, M | S=Masked | Sand Gr | ains. | ² Location: PL: | Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: | | | | | | Indicators for P | roblematic Hydric Solls": |
| Histosol | (A1) | | Polyvalue Belo | w Surface | (S8) (LRF | R, | 2 cm Muck | (A10) (LRR K, L, MLRA 149B) |
| Histic Ep | pipedon (AZ) | | Thin Dark Surf |) 200 (SQ) (I | | DA 1408 | Coast Prairi | $(\mathbf{L}\mathbf{R}\mathbf{R},\mathbf{L},\mathbf{R})$ |
| Hvdroge | en Sulfide (A4) | | I oamv Muckv I | Mineral (F | 1) (LRR K | LKA 1490, . L) | Dark Surfac | e (S7) (LRR K. L) |
| Stratified | d Lavers (A5) | | Loamy Gleved | Matrix (F2 | :) (:) | , _/ | Polyvalue B | elow Surface (S8) (LRR K, L) |
| Depleted | d Below Dark Surfac | ce (A11) | Depleted Matri | x (F3) | , | | Thin Dark S | urface (S9) (LRR K, L) |
| Thick Da | ark Surface (A12) | | Redox Dark Su | urface (F6) | | | Iron-Manga | nese Masses (F12) (LRR K, L, R) |
| Sandy M | /lucky Mineral (S1) | | Depleted Dark | Surface (F | 7) | | Piedmont F | oodplain Soils (F19) (MLRA 149B) |
| Sandy G | Gleyed Matrix (S4) | | Redox Depress | sions (F8) | | | Mesic Spod | ic (TA6) (MLRA 144A, 145, 149B) |
| Sandy F | Redox (S5) | | | | | | Red Parent | Material (F21) |
| Stripped | Matrix (S6) | | | | | | Very Shallo | w Dark Surface (TF12) |
| Dark Su | race (57) (LRR R, | MLRA 149B |) | | | | Other (Expla | ain in Remarks) |
| ³ Indicators o | f hydrophytic vegeta | ation and we | tland hydrology mu | st be prese | ent, unless | s disturbed | or problematic. | |
| Restrictive | Layer (if observed) | : | , ,, | | | | | |
| Type: | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil Pres | ent? Yes No 🖌 |
| Remarks: | | | | | | | | |
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: Kane Solar II | City/County: Kane County | S | ampling Date: 2022-12-06 | |
|---|---------------------------------|------------------------|--------------------------|--|
| Applicant/Owner: Horizon Solar Power | | State: Illinois | Sampling Point: 3 | |
| Investigator(s): Cat Holland, Kelly Volansky | Section, Township, Range: | 503 T39N R6E | | |
| Landform (hillslope, terrace, etc.): Depression | ocal relief (concave, convex, n | one): Concave | Slope (%): 2 | |
| Subregion (LRR or MLRA): K 95B Lat: 41.8921829 |) Long: <u>-8</u> | 8.5439310 | Datum: NAD 83 | |
| Soil Map Unit Name: 152A - Drummer silty clay loam, 0 to 2 | percent slopes | NWI classificati | ion: | |
| Are climatic / hydrologic conditions on the site typical for this time of y | ear? Yes 🖍 No | (If no, explain in Rem | narks.) | |
| Are Vegetation, Soil, or Hydrology significantl | y disturbed? Are "Norm | al Circumstances" pre | sent? Yes 🖌 No | |
| Are Vegetation, Soil, or Hydrology naturally p | roblematic? (If needed, | explain any answers | in Remarks.) | |
| | | | | |

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

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes Yes Yes | No 🖌 No 🖌 No 🖌 | Is the Sampled Area within a Wetland? Yes No <u>·</u> |
|---|-------------------|----------------------|--|
| Remarks: (Explain alternative proced | ures here or in a | a separate report.) | |
| | | | |

HYDROLOGY

| Wetland Hydrology Indicators: | <u>s</u> | econdary Indicators (minimum of two required) |
|---|---------------------------------|---|
| Primary Indicators (minimum of one is required; check all that apply) | | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (B9) | _ | Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | | Moss Trim Lines (B16) |
| Saturation (A3) Marl Deposits (B15) | _ | 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 Vis ble 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 Sc | oils (C6) | Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck Surface (C7) | _ | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | _ | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | _ | FAC-Neutral Test (D5) |
| Field Observations: | | |
| Surface Water Present? Yes No 🖌 Depth (inches): | | |
| Water Table Present? Ves No 🖌 Depth (inches): | | |
| | | |
| Saturation Present? Yes No Depth (inches) | Wetland Hy | drology Present? Yes No 🗹 |
| Saturation Present? Yes No Depth (inches): | Wetland Hy | drology Present? Yes No |
| Saturation Present? Yes No Depth (inches) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective) | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No _ ✓ Depth (inches): Saturation Present? Yes No _ ✓ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No <u> </u> |
| Water Fable Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hy tions), if availa | drology Present? Yes No <u></u> able: |
| Water Fable Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Water Fable Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |
| Saturation Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec Remarks: Remarks: | Wetland Hy tions), if availa | drology Present? Yes No |

VEGETATION – Use scientific names of plants.

| | Absolute | Dominant | Indicator | Dominanaa Taat warkabaati |
|---|------------|------------|-----------|--|
| Tree Stratum (Plot size: <u>30 ft r</u>) | % Cover | Species? | Status | Dominance Test worksneet: |
| 1. Acer rubrum | 20 | ~ | FAC | That Are OBL, FACW, or FAC: 2 (A) |
| 2. | | | | |
| 3 | | | | Total Number of Dominant Species Across All Strata: 3 (B) |
| · · | | | | |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet |
| 7. | | | | Total % Cover of: Multiply by: |
| | 20% | - Total Co | Vor | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |
| | | - 10141 00 | VCI | EACW species 2 $x^2 = 4$ |
| Sapling/Shrub Stratum (Plot size: 1910) | | | | EAC species 25 $x_3 = 75$ |
| 1 | | · | | FACt species 0 $x = 0$ |
| 2 | | | | FACU species $\frac{10}{10}$ $x = \frac{50}{10}$ |
| 3. | | | | $\begin{array}{c} \text{OPL species} & \underline{10} & \underline{x5} = \underline{00} \\ 37 & \underline{129} & \underline{129} \end{array}$ |
| 4 | | | | Column Lotals: $\underline{37}$ (A) $\underline{123}$ (B) |
| | | | | Prevalence Index = $B/A = 3.49$ |
| 5 | | · | | Hedroubed's Manadation in directory |
| 6 | | · | | Hydrophytic vegetation indicators: |
| 7 | | · | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | = Total Co | ver | ✓ 2 - Dominance Test is >50% |
| Herb Stratum (Plot size: 5 ft r | | | | 3 - Prevalence Index is ≤3.0' |
| 1. Bromus inermis | 10 | ~ | UPL | 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) |
| 2 Xanthium strumarium | 5 | ~ | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. Arctium tomentosum | 2 | | | |
| | - <u>-</u> | · | | ¹ Indicators of hydric soil and wetland hydrology must |
| 4. Elymos virginicus | 2 | · | FACW | be present, unless disturbed or problematic. |
| 5 | | · | | Definitions of Vegetation Strata: |
| 6 | | | | Tree Mandy plants 2 in (7.6 am) or more in diameter |
| 7. | | | | at breast height (DBH), regardless of height. |
| 8 | _ | | | |
| 0 | | · | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 9 | | | | |
| 10 | | · | | Herb – All herbaceous (non-woody) plants, regardless |
| 11 | | | | of size, and woody plants less than 3.28 ft tall. |
| 12 | | | | Woody vines – All woody vines greater than 3.28 ft in |
| | 19% | = Total Co | ver | height. |
| W_{aady}/W_{aady} | | rotar oo | | |
| Woody vine Stratum (Plot size) | | | | |
| 1 | | · | | |
| 2 | | | | |
| 3 | | | | Hydrophytic |
| 4 | | | | Vegetation |
| | | - Total Ca | | Present? Yes No Yes |
| Pomarka: (Include photo numbero horo er en o conorato | choot) | | ver | |
| Remarks. (include photo humbers here of on a separate | sneet.) | | | |
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| Depth | Matrix | to the dep | Rede | ox Feature | s | or comm | in the absence of in | idicators.) | |
|----------------|----------------------------|-------------------|------------------------------|---------------------------|-------------------|------------------|---------------------------|---|--------------------------------------|
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remark | S |
| 0 - 22 | 10YR 3/2 | 100 | | | | | Sandy Clay Loam | | |
| | | | | | | | | | |
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| Type: C=Co | oncentration, D=Dep | oletion, RM= | =Reduced Matrix, M | S=Masked | Sand Gra | ains. | ² Location: PL | =Pore Lining, M=N | Matrix. |
| Hyaric Soli | | | Debaselus Dela | | | | Indicators for H | | |
| Histic Fr | (AT) ninedon (A2) | | Polyvalue Belo ΜΙ RΔ 149R | w Surface | (50) (LRF | КК, | Coast Prair | (A10) (LKK K, L, ie Redox (A16) (I | RRKIR) |
| Black Hi | istic (A3) | | Thin Dark Surf | ') ace (S9) (I | RR R, MI | _RA 149B |) 5 cm Mucky | Peat or Peat (S3 | (LRR K, L, R) |
| Hydroge | en Sulfide (A4) | | Loamy Mucky | Mineral (F | 1) (LRR K | , L) | Dark Surfac | ce (S7) (LRR K, L |) |
| Stratified | d Layers (A5) | | Loamy Gleyed | Matrix (F2 |) | | Polyvalue E | Below Surface (S8 |) (LRR K, L) |
| Depleted | d Below Dark Surfac | ce (A11) | Depleted Matri | x (F3) | | | Thin Dark S | Surface (S9) (LRR | K, L) |
| Thick Da | ark Surface (A12) | | Redox Dark Su | urface (F6) | 7) | | Iron-Manga | inese Masses (F12 Teodoloin Soile (F12 | 2) (LRR K, L, R) 10) (ML BA 140B) |
| Sandy N | Sleved Matrix (S4) | | Depieted Dark | sions (F8) | .7) | | Mesic Spor | lic (TA6) (MI RA 1 | 446 145 149B) |
| Sandy R | Redox (S5) | | | | | | Red Parent | Material (F21) | 447, 140, 1400) |
| Stripped | l Matrix (S6) | | | | | | Very Shallo | w Dark Surface (1 | ΓF12) |
| Dark Su | rface (S7) (LRR R, | MLRA 149E | 3) | | | | Other (Expl | ain in Remarks) | |
| 31 | f h | والمعالم والمراجع | | | | مانمة بسامم | | | |
| Restrictive | aver (if observed) | ition and we | etiand hydrology mu | st be prese | ent, uniess | s disturbed | or problematic. | | |
| Type: | | • | | | | | | | |
| туре. <u> </u> | | | | | | | Hydric Soil Pres | cont? Voc | |
| Depth (inc | ches): | | | | | | Tryunc Son Tres | | |
| Remarks: | | | | | | | | | |
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: Kane Solar II | City/County: Kane County | Sam | pling Date: 2022-12-06 |
|---|--------------------------------------|--|-------------------------|
| Applicant/Owner: Horizon Solar Power | | _ _{State:} Illinois _ _{Sa} | ampling Point: <u>4</u> |
| Investigator(s): Cat Holland, Kelly Volansky | _ Section, Township, Range: <u>S</u> | 03 T39N R6E | |
| Landform (hillslope, terrace, etc.): Flat | .ocal relief (concave, convex, no | _{ne):} None | Slope (%): 0 |
| Subregion (LRR or MLRA): K 95B Lat: 41.893099 | 96Long:88 | 3.5414758 | Datum: NAD 83 |
| Soil Map Unit Name: 152A - Drummer silty clay loam, 0 to 2 | percent slopes | NWI classification | : |
| Are climatic / hydrologic conditions on the site typical for this time of | year? Yes 🖌 No | (If no, explain in Remar | ks.) |
| Are Vegetation, Soil, or Hydrology significant | ly disturbed? Are "Norma | l Circumstances" preser | nt? Yes 🖌 No |
| Are Vegetation, Soil, or Hydrology naturally p | vroblematic? (If needed, o | explain any answers in I | Remarks.) |
| | | | |

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

| Hydrophytic Vegetation Present? Hydric Soil Present? | Yes Yes | No 🔽 | Is the Sampled Area within a Wetland? Yes No |
|---|--------------------|---------------------|--|
| Wetland Hydrology Present? | Yes | No | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative proced | lures here or in a | a separate report.) | |

HYDROLOGY

| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
|--|--|
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Water-Stained Leaves (B9) | Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | Moss Trim Lines (B16) |
| Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) Oxidized Rhizospheres on Living F | Roots (C3) Saturation Vis ble 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 So | ils (C6) Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck Surface (C7) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) | Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No 🖌 Depth (inches): | |
| Weter Table Dresento Vac Na Y Danth (inches) | |
| water Table Present? Yes No _ Depth (Inches): | |
| Voter Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Yes No _ Depth (inches): | Wetland Hydrology Present? Yes No |
| vvater Table Present? Yes No _ Deptn (incnes): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect | Wetland Hydrology Present? Yes No |
| Vater Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect | Wetland Hydrology Present? Yes No |
| Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect | Wetland Hydrology Present? Yes No |
| Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: | Wetland Hydrology Present? Yes No |
| Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks: | Wetland Hydrology Present? Yes No |
| Water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: | Wetland Hydrology Present? Yes No |
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| water Table Present? Yes No _ Depth (inches): Saturation Present? Yes No _ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect Remarks: Remarks: | Wetland Hydrology Present? Yes No |

VEGETATION – Use scientific names of plants.

| | Abaaluta | Dominon | t Indiaatar | |
|---|----------------|------------|-------------|---|
| Tree Stratum (Plot size: <u>30 ft r</u>) | <u>% Cover</u> | Species? | Status | Dominance Test worksheet: |
| 1 Populus deltoides | 90 | ~ | FAC | Number of Dominant Species That Are OBL_EACW_or EAC: 2 (A) |
| 2. Morus alba | 20 | | FACU | |
| 3 | _ | | | I otal Number of Dominant Species Across All Strata: 3 (B) |
| 4 | | · | | |
| T | | · | | That Are OBL. FACW. or FAC: 66.7 (A/B) |
| 5 | | | · | |
| б | | · | | Prevalence Index worksheet: |
| 7 | | · | | Total % Cover of:Multiply by: |
| | 110% | = Total Co | ver | OBL species $\frac{0}{2}$ x 1 = $\frac{0}{2}$ |
| Sapling/Shrub Stratum (Plot size: 15 ft r) | | | | FACW species 0 $x_2 = 0$ |
| 1 | | | <u> </u> | FAC species 105 $x_3 = 315$ |
| 2 | _ | | | FACU species 20 $x 4 = 80$ |
| 3 | | | - | UPL species 15 $x_5 = \frac{75}{470}$ |
| 0 | | <u></u> | | Column Totals: <u>140</u> (A) <u>470</u> (B) |
| | | · | | Prevalence Index = $B/A = 3.36$ |
| 5 | | · | · | Hudronhutia Vagatatian Indiastara. |
| 6 | | | | A Denial Test for Lludronbutic Manatorian |
| 7 | | | | 1 - Rapid Test for Hydrophylic Vegetation |
| | | = Total Co | ver | \checkmark 2 - Dominance Test is >50% |
| Herb Stratum (Plot size: 5 ft r) | | | | 5 - Frevalence index is 25.0 |
| 1 | | | | data in Remarks or on a separate sheet) |
| 2. | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | | | |
| A | | <u></u> | | ¹ Indicators of hydric soil and wetland hydrology must |
| | | · | | be present, unless disturbed of problematic. |
| 5 | | · | | Definitions of Vegetation Strata: |
| 6 | | · | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 7 | | · | | at breast height (DBH), regardless of height. |
| 8 | | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 9 | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 10 | | <u></u> | <u> </u> | Herb – All herbaceous (non-woody) plants, regardless |
| 11. | | | | of size, and woody plants less than 3.28 ft tall. |
| 12 | | | | Woody vines – All woody vines greater than 3.28 ft in |
| | | - Total Co | Ver | height. |
| Weady Vine Stratum (Plat size: 30 ft r | | | | |
| Vitic riporio | 15 | | EAC | |
| | 10 | <u> </u> | | |
| | | <u> </u> | | |
| 3. Kubus occidentalis | 5 | · | UPL | Hydrophytic |
| 4 | | · | <u> </u> | vegetation Present? Yes No |
| | 30% | = Total Co | ver | |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | | |

| SOIL |
|------|
|------|

| Profile Desc | cription: (Describe | to the dept | h needed to docu | ment the i | indicator | or confirn | n the absence o | of indicator | 's.) | |
|---|--------------------------------------|--------------|-----------------------|-------------|-------------|--|--|----------------------|--------------|----------------------|
| Depth (inches) | Depth <u>Matrix</u> | | <u>Redox Features</u> | | | | Texture Remarks | | | |
| 0 22 | | 100 | | 70 | _туре | | Sandy Clay Loom | | Remarks | |
| | 101R 2/1 | 100 | | | · | | | | | |
| - | | <u> </u> | | <u> </u> | . <u> </u> | | | | | |
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| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | oletion, RM= | Reduced Matrix, M | S=Masked | d Sand Gra | ains. | ² Location: | PL=Pore L | ining, M=Mat | rix. |
| Hydric Soil | Indicators: | | | | | | Indicators f | or Problem | natic Hydric | Soils ³ : |
| Histosol | (A1) | | Polyvalue Belo | w Surface | (S8) (LRF | RR, | 2 cm Mu | uck (A10) (L | _RR K, L, ML | .RA 149B) |
| Histic Epipedon (A2) MLRA 149B) | | | | | | Coast Prairie Redox (A16) (LRR K, L, R) | | | | |
| Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) | | | | | | 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) | | | | |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) | | | | | | | Dark Surface (S7) (LRR K, L) | | | |
| Stratille | d Layers (A5) d Bolow Dark Surfac | | Loamy Gleyed | Matrix (F2 | () | | This Dark Surface (S0) (LRR R, L) | | | |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) | | | | | | | Iron-Manganese Masses (E12) (I RR K I R) | | | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) | | | | | | | Piedmont Floodplain Soils (F19) (MI RA 149B) | | | |
| Sandy Mucky Milleral (ST) Depleted Dark Surface (TT) | | | | | | | Mesic Spodic (TA6) (MI RA 144A, 145, 149B) | | | |
| Sandy Redox (S5) | | | | | | | Red Parent Material (F21) | | | |
| Stripped Matrix (S6) | | | | | | | Very Shallow Dark Surface (TF12) | | | |
| Dark Surface (S7) (LRR R, MLRA 149B) | | | | | | | Other (Explain in Remarks) | | | |
| | | | | | | | | | | |
| ³ Indicators o | f hydrophytic vegeta | tion and we | tland hydrology mu | st be prese | ent, unless | s disturbed | l or problematic. | | | |
| Restrictive | Layer (if observed) | : | | | | | | | | |
| Туре: | | | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil F | Present? | Yes | No 🖌 |
| Remarks: | | | | | | | | | | |
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Appendix L References

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