

Assured Wetland Delineation Report

Eagle 152-Acre Property

Town of Eagle, Waukesha County, Wisconsin January 22, 2025

Project Number: 20241312

Eagle 152 Acre Property

Town of Eagle, Waukesha County, Wisconsin January 22, 2025

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Table of Contents

| 1.0 | Introduction | 4 |
|-----|--|----|
| 2.0 | Methods | 5 |
| 2.1 | Wetlands | 5 |
| 3.0 | Results and Discussion | 7 |
| 3.1 | Desktop Review | 7 |
| Ta | able 1. Summary of NRCS Mapped Soils within the Study Area | 8 |
| 3.2 | Field Review | 10 |
| Ta | able 2. Summary of Wetlands Identified within the Study Area | 10 |
| 3.3 | Other Considerations | 11 |
| 4.0 | Conclusion | 12 |
| 5.0 | References | 13 |

Appendix A | Figures

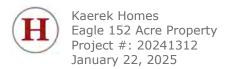
Appendix B | APT Analysis

Appendix C | Wetland Determination Data Sheets

Appendix D | Site Photographs

Appendix E | Delineator Qualifications

Appendix F | Off-Site Analysis



1.0 Introduction

Heartland Ecological Group, Inc. ("Heartland") completed an assured wetland determination and delineation on the Eagle 152 Acre Property site on July 29, 2024, at the request of Kaerek Homes. Fieldwork was completed by Eric C. Parker, SPWS, an assured delineator qualified via the Wisconsin Department of Natural Resources' (WDNR's) Wetland Delineation Assurance Program (Appendix E, Qualifications) assisted by Mikayla Datka, environmental intern. The 152.17-acre site (the "Study Area") is southeast of the intersection of State Trunk Highway (STH) 67 and County Trunk Highway (CTH) NN, in the northeast ¼ of Section 27, T5N, R17E, Town of Eagle, Waukesha County, WI (Figure 1, Appendix A). The purpose of the wetland delineation was to determine the location and extent of wetlands within the Study Area.

One (1) wetland area totaling approximately 0.63 acres was delineated and mapped within the Study Area (Figure 7, Appendix A). No waterways or water bodies were observed in the Study Area.

Wetlands, waterways, and water bodies discussed in this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of the WDNR, and local zoning authorities. Heartland recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review and concurrence.



2.0 Methods

2.1 Wetlands

Wetlands were determined and delineated using the criteria and methods described in the USACE Wetland Delineation Manual, T.R. Y-87-1 ("1987 Corps Manual") and the applicable Regional Supplement to the Corps of Engineers Wetland Delineation Manual. In addition, the Guidance for Submittal of Delineation Reports to the St. Paul District USACE and the WDNR (WDNR, 2015) was followed in completing the wetland delineation and report.

Determinations and delineations utilized available resources including the U.S. Geological Survey's (USGS) WI 7.5 Minute Series (Topographic) Map (Figure 2, Appendix A), the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service's (NRCS) Soil Survey Geographic Database (SSURGO) Web Soil Survey (Figure 3, Appendix A), the WDNR's Wetland Indicator data layer (Figure 4, Appendix A), the WDNR's Wisconsin Wetland Inventory data layer (Figure 5, Appendix A), the WNDR's 24k Hydro Flowlines (Rivers and Streams) data layer (Figure 2 and 5, Appendix A), the WDNR's Color-Stretch LiDAR and Hillshade Image Service Layer (Figure 6, Appendix A), and aerial imagery available through the USDA Farm Service Agency's (FSA) National Agriculture Imagery Program (NAIP) and Waukesha County's Land Information Office.

Wetland determinations were completed on-site at sample points, often along transects, using the three (3) criteria (vegetation, soil, and hydrology) approach per the 1987 Corps Manual and the Regional Supplement. Procedures in these sources were followed to demonstrate that, under normal circumstances, wetlands were present or not present based

Atypical conditions were encountered within the Study Area due to the presence of agricultural fields including row-cropping and hay fields in areas with soils that may be hydric based on the *Web Soil Survey* and the WDNR *Surface Water Data Viewer's* wetland indicator data layer. Therefore, procedures for managed plant communities in the *Problematic hydrophytic vegetation* section described in Chapter 5 of the Regional Supplement were used. NAIP imagery was reviewed for evidence of crop stress, saturation, or inundation signatures. Sample point placements for the wetland delineation were partially determined based on such signatures.

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In actively farmed areas within the Study Area where hydric soils may be present, methods described in Chapter 5 (Difficult Wetland Situations) of the Regional Supplement were followed. Available aerial imagery was analyzed using procedures described in the Guidance for Offsite Hydrology/Wetland Determinations (USACE and Minnesota Board of Water and Soil Resources, July 2016 - "July 2016 Guidance"). An off-site aerial imagery analysis (Off-Site Analysis) was completed to document the presence or absence of wetland signatures and assist in the wetland determination. A wetland signature is evidence, recorded by aerial imagery, of ponding, flooding, or impacts of saturation for sufficient duration to meet wetland hydrology and possibly wetland vegetation criteria. Wetland signatures often vary based on the type and seasonal date of the aerial imagery. For example, there are seven (7) standardized signature types in actively farmed settings described in the July 2016 Guidance. To assist in interpretations of wetland signatures, a WETS analysis was used to compare antecedent precipitation in the three (3) months leading up to each aerial image to the long-term (30-year) precipitation averages and standard deviation to determine if antecedent precipitation conditions for each image was normal, wet, or dry. Areas within agricultural fields are typically determined to be wetland if hydric soils and wetland hydrology indicators are present and aerial images taken in the five (5) (or more) most recent normal antecedent precipitation images show at least one (1) of the wetland signatures per the July 2016 Guidance. Although the Off-Site Analysis concentrates on imagery taken under normal antecedent precipitation conditions, the images determined to be taken under wet and dry antecedent precipitation conditions were also analyzed and considered. Determinations and delineation of wetlands in agricultural areas are typically based on an outline of the largest wetland signature on an image taken under "normal" antecedent conditions and based on the consistency of the signatures (USDA, NRCS 1998).

Recent weather conditions influence the visibility or presence of certain wetland hydrology indicators. An assessment of recent precipitation patterns helps to determine if climatic/hydrologic conditions were typical when the field investigation was completed. Therefore, a review of antecedent precipitation in the 90 days leading up to the field investigation was completed. Using an Antecedent Precipitation Tool (APT) analysis developed by the USACE (Deters & Gutenson 2021), the amount of precipitation over these 90 days was compared to averages and standard deviation thresholds observed over the past 30 years to generally represent if conditions encountered during the investigation were

ASSURED WETLAND DELINEATION REPORT



normal, wet, or dry. Recent precipitation events in the weeks prior to the investigation were also considered while interpreting wetland hydrology indicators. Additionally, the Palmer Drought Severity Index was checked for long-term drought or moist conditions (NOAA, 2018).

The uppermost wetland boundary and sample points were identified and marked with wetland flagging and located with a Global Navigation Satellite System (GNSS) receiver capable of sub-meter accuracy. In some cases, wetland flagging was not utilized to mark the boundary, and the location was only recorded with a GNSS receiver, particularly in active agricultural areas. The GNSS data was then used to map the wetlands using ESRI ArcGIS ProTM software.

3.0 Results and Discussion

3.1 Desktop Review

Climatic Conditions

According to the APT analysis using the previous 90 days of precipitation data, conditions encountered at the time of the fieldwork were expected to be wetter than normal for the time of year (Appendix B). The Palmer Drought Severity Index was checked as part of the APT analysis, and the long-term conditions at the time of the fieldwork were in the severe wetness range. Fieldwork was completed within the dry season based on long-term regional hydrology data utilized in the WebWIMP Climatic Water Balance and computed as part of the APT analysis. The growing season was determined to be underway based on several species green and buds opening.

General Topography and Land Use

The topography within the Study Area was rolling, with various hills, depressions, and slopes and a topographic high of approximately 929 feet above mean sea level (msl) near the northwest corner, and a topographic low of approximately 889 feet above msl near the southeast corner (Figures 2, 6, and 7 Appendix A). Land uses within the Study Area and surrounding areas are primarily agricultural row cropping with residential and woodland areas also present. General drainage is to the south and east.

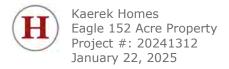


Soil Mapping

Soils mapped by the NRCS Soil Survey within the Study Area and their hydric status are summarized in Table 1. Wetlands identified during the field investigation are located primarily within areas mapped as hydric or partially hydric soils including wetland indicator soils (Figures 3 and 4, Appendix A).

Table 1. Summary of NRCS Mapped Soils within the Study Area

| Soil symbol: Soil Unit Name | Soil Unit Component | Soil Unit Component Percentage | Landform | Hydric status |
|--|------------------------|--------------------------------------|--|------------------|
| CeB: Casco loam, 2-6% slopes | Casco | 80-90 | Outwash plains | No |
| | Fox | 5-11 | Outwash plains | No |
| | Boyer | 5-9 | Outwash plains | No |
| CrD: Casco-Rodman complex, 12-20% slopes | Casco | 70 | Outwash plains | No |
| | Rodman | 30 | Outwash plains | No |
| CrE: Casco-Rodman complex, 20-30% slopes | Casco | 45-70 | Moraines | No |
| | Rodman | 30-40 | Moraines | No |
| | Casco-Eroded | 0-8 | Moraines | No |
| | Fox | 0-7 | Moraines | No |
| Cw: Colwood silt loam, 0- 2% slopes | Colwood | 80-90 | Lakebeds (relict) | Yes |
| | Pella | 5-10 | Drainageways | Yes |
| | Palms | 5-10 | Depressions | Yes |
| LyB2: Lorenzo loam, 2-6% slopes, eroded | Lorenzo | 100 | Outwash plains | No |
| LyC2: Lorenzo loam, 6- 12% slopes, eroded | Lorenzo | 100 | Outwash plains | No |
| WdB: Warsaw sandy loam, 2-6% slopes | Warsaw | 100 | Outwash plains | No |
| WeA: Warsaw loam, 0-2% slopes | Warsaw | 85-95 | Outwash plains | No |
| | Kane | 3-8 | Stream terraces | No |
| | Will | 2-7 | Kames, stream terraces, outwash plains | Yes |
| WeB: Warsaw loam, 2-6% slopes | Warsaw | 80-90 | Outwash plains | No |
| | Warsaw | 5-10 | Stream terraces | No |
| | Fox | 5-10 | Outwash plains | No |



Wetland Mapping

The Wisconsin Wetlands Inventory (WWI) mapping (Figure 5, Appendix A) depicts one (1) flats / unvegetated wet soil wetland (F0Kf) in the southern portion of the Study Area.

Waterway Mapping

The WDNR's Rivers and Streams data layer (Figure 5, Appendix A) depicts one (1) unnamed, intermittent stream (WBIC: 5038234) on the eastern-central side of the Study Area. No water bodies are depicted within the Study Area.

Aerial Photography

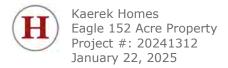
Available NAIP imagery of the Study Area from the period of 2005-2022 (Appendix F) was reviewed for evidence of wetland signatures and to gain insight into the site's recent history. Land uses within the Study Area have not changed; the site remained in row-cropping for the entire review period.

Off-Site Analysis

Agricultural fields are present within the Study Area and have significant mapped hydric or potentially hydric soils and were the focus of the Off-Site Analysis (OSA) (Appendix F). From the aerial imagery, the secondary wetland hydrology indicator of "Saturation Visible on Aerial Imagery" (C9) and "Stunted or Stressed Plants" (D1) were noted.

A total of 18 aerial images were selected and reviewed based on availability and quality of the imagery. Of these images, 11 were taken under normal antecedent precipitation conditions. Signatures were noted in eight (8) areas within the Study Area within landscape positions described by the NRCS to support hydric soil components and were the focus of the OSA. At least one (1) of the seven (7) described wetland signatures per the July 2016 Guidance were consistently noted in one (1) of these areas on imagery taken under normal antecedent precipitation conditions. In imagery taken under wet or dry antecedent precipitation conditions, such wetland signatures were also noted in this same signature area (#8), but not in the other areas.

Based on the OSA, one (1) depressional area was likely to be wetland prior to the fieldwork. There were no drain tile signatures noted in the OSA.



3.2 Field Review

One (1) wetland was identified and delineated within the Study Area. Wetland determination data sheets (Appendix C) were completed at 14 sample points that were representative of the wetland and upland conditions near the boundary and where potential wetlands may be present based on the desktop review and field reconnaissance. Most depressional areas within the Study Area were found to be upland. Appendix D provides photographs, typically at the sample point locations of the wetlands and adjacent uplands. The wetland boundary and sample point locations are shown on Figure 7 (Appendix A) and the wetland is summarized in Table 2 and detailed in the following sections.

Table 2. Summary of Wetlands Identified within the Study Area

| Wetland ID | Wetland Description | *Surface Water Connections | *NR151 Protective Area | Acreage (on-site) | |
|---|------------------------|-------------------------------|---------------------------|----------------------|--|
| W-1 | 0.63 | | | | |
| *Classification based on Heartland's professional opinion. Jurisdictional authority of wetland and waterway protective areas under NR 151 lies with the WDNR. Local zoning authorities may have additional restrictions. USACE has authority for determining federal jurisdiction of wetlands and waterways. | | | | | |

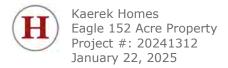
Wetland 1 (W-1)

Wetland 1 (W-1) is a 0.63-acre farmed wet meadow located in a depression on the southern edge of the Study Area. The boundary of W-1 generally followed a moderately-defined topographic break.

Dominant vegetation observed in W-1 included field nut sedge (*Cyperus esculentus*, FACW), barnyard grass (*Echinochloa crus-galli*, FAC), and blunt spike-rush (*Eleocharis obtusa*, OBL). Therefore, the wetland vegetation parameter was met.

The Depleted below dark surface (A11) hydric soil indicator was noted in W-1, which is consistent with the mapped Colwood soil type. Thus, the hydric soil parameter was met.

The primary wetland hydrology indicator of Saturation (A3) was noted within W-1, while the secondary indicators of Saturation Visible on Aerial Imagery (C9), Stunted or Stressed Plants (D1), Geomorphic Position (D2), and a positive FAC-Neutral Test (D5) were also noted. Therefore, the wetland hydrology parameter was met.



Waterways

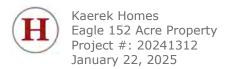
No waterways or water bodies were observed in the Study Area.

3.3 Other Considerations

This report is limited to the identification and delineation of wetlands within the Study Area. Other regulated environmental resources that result in land use restrictions may be present within the Study Area that were not evaluated by Heartland (e.g., navigable waterways, environmental corridors, floodplains, cultural resources, and threatened or endangered species).

Wisconsin Act 183 provides exemptions to permitting requirements for certain nonfederal wetlands. Nonfederal wetlands are wetlands that are not subject to federal jurisdiction. Exemptions apply to projects in urban areas with wetland impacts up to 1-acre per parcel. An urban area is defined as an incorporated area; an area within ½ mile of an incorporated area; or an area served by a sewerage system. Exemptions for nonfederal wetlands also apply to projects in rural areas with wetland impacts up to three (3) acres per parcel. Exemptions in rural areas only apply to structures with an agricultural purpose such as buildings, roads, and driveways. The determination of federal and nonfederal wetlands MUST be made by the USACE through an Approved Jurisdictional Determination (AJD). This report may be submitted to the USACE to assist with their determination.

Wis. Adm. Code NR 151 ("NR 151") requires that a "protective area" (buffer) be determined from the Ordinary High-Water Mark (OHWM) of lakes, streams and rivers, or at the delineated boundary of wetlands. Per NR 151.12, the protective area width for "less susceptible" wetlands is determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. "Moderately susceptible" wetlands, lakes, and perennial and intermittent streams identified on recent mapping require a protective area width of 50 feet; while "highly susceptible wetlands" are associated with outstanding or exceptional resource waters in areas of special natural resource interest and require protective area width of 75 feet. Table 2 above lists the potential wetland buffers per NR 151 for each wetland identified based on Heartland's professional opinion. Please note that jurisdictional authority on wetland and waterway protective areas under NR 151 lies with the WDNR. Local zoning authorities and regional planning organizations may have additional land use restrictions within or adjacent to wetlands.



4.0 Conclusion

Heartland completed an assured wetland determination and delineation within the Eagle 152 Acre Property site on July 29, 2024, at the request of Kaerek Homes. Fieldwork was completed by Eric C. Parker, SPWS, an assured delineator qualified via the WDNR's Wetland Delineation Assurance Program (Appendix E). The Study Area lies in Section 27, T5N, R17E, Town of Eagle, Waukesha County, WI (Figure 1, Appendix A).

One (1) wetland area was delineated and mapped within the 152.17-acre Study Area (Figure 7, Appendix A). The wetland, which may be classified as farmed wet meadow, totals approximately 0.63 acres within the Study Area. No waterways or water bodies were observed in the Study Area.

Wetlands, waterways, and water bodies discussed in this report may be subject to federal regulation under the jurisdiction of the USACE, state regulation under the jurisdiction of the WDNR, and the local zoning authority. Heartland recommends this report be submitted to the USACE and WDNR for final jurisdictional review and concurrence. Review by local authorities may be necessary for determination of any applicable zoning and setback restrictions.

Heartland recommends that all applicable regulatory agency reviews and permits are obtained prior to beginning work within the Study Area or within or adjacent to wetlands or waterways. Heartland can assist with evaluating the need for additional environmental reviews, surveys, or regulatory agency coordination in consideration of the proposed activity and land use as requested but is outside of the scope of the wetland delineation.

Experienced and qualified professionals completed the wetland determination and delineation using standard practices and professional judgment. Wetland boundaries may be affected by conditions present within the Study Area at the time of the fieldwork. All final decisions on wetlands and their boundaries are made by the USACE, the WDNR, and/or sometimes a local unit of government. Wetland determination and boundary reviews by regulatory agencies may result in modifications to the findings presented to the Client. These modifications may result from varying conditions between the time the wetland delineation was completed and the time of the review. Factors that may influence the findings may include but are not limited to precipitation patterns, drainage modifications, changes or modification to vegetation, and the time of year.



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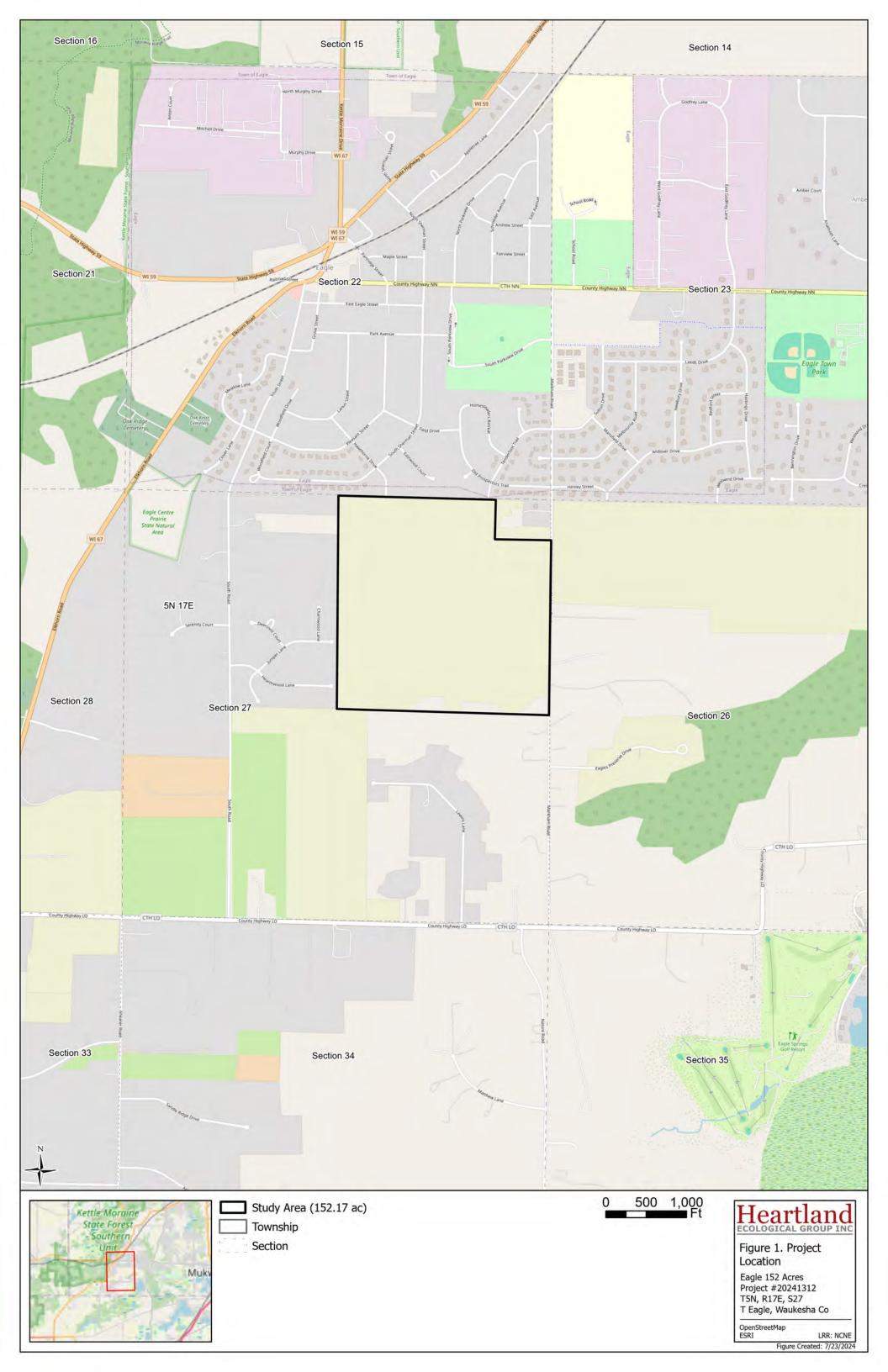
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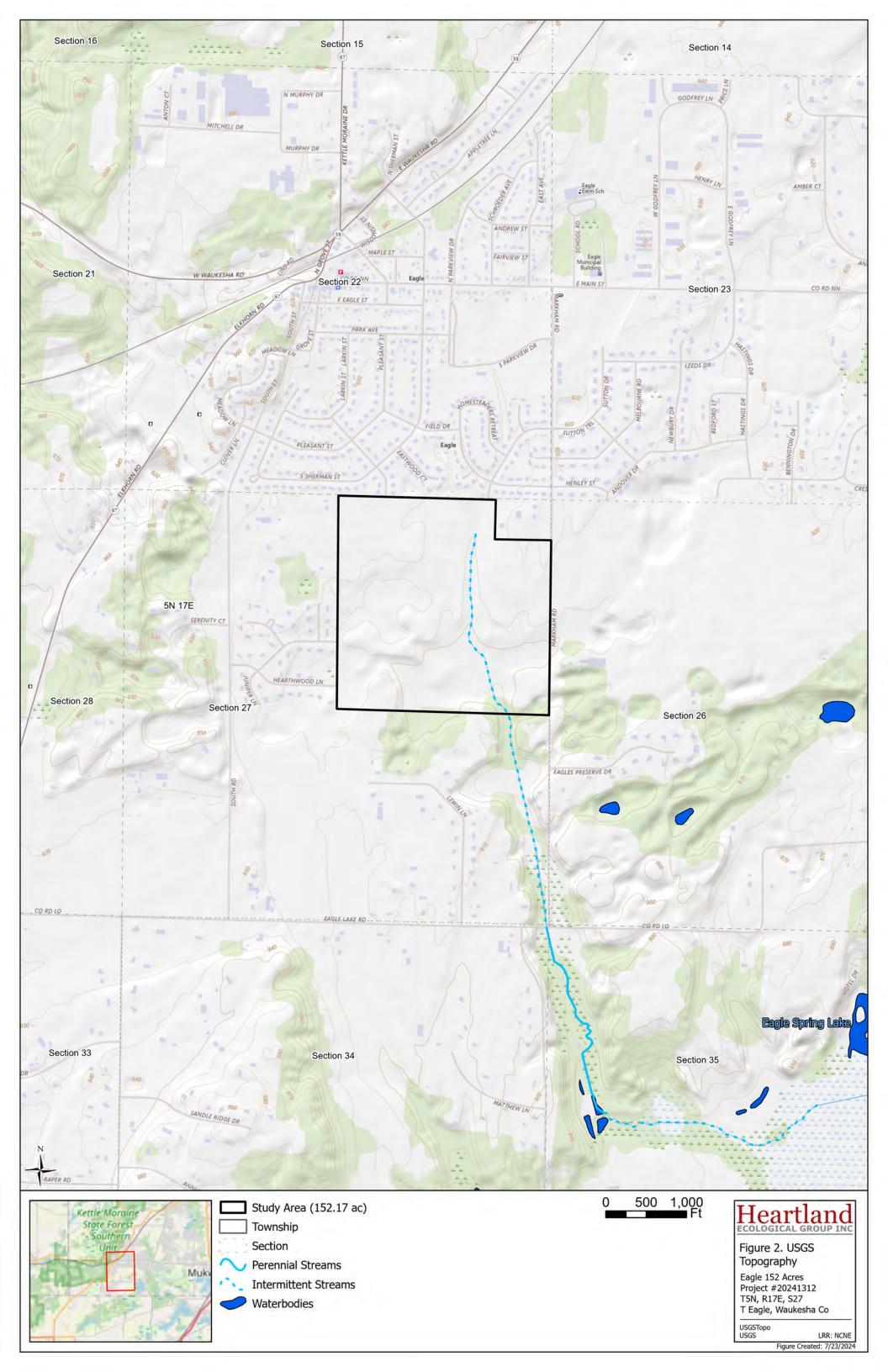


Kaerek Homes Eagle 152 Acre Property Project #: 20241312 January 22, 2025

Appendix A | Figures

Solutions for people, projects, and ecological resources.









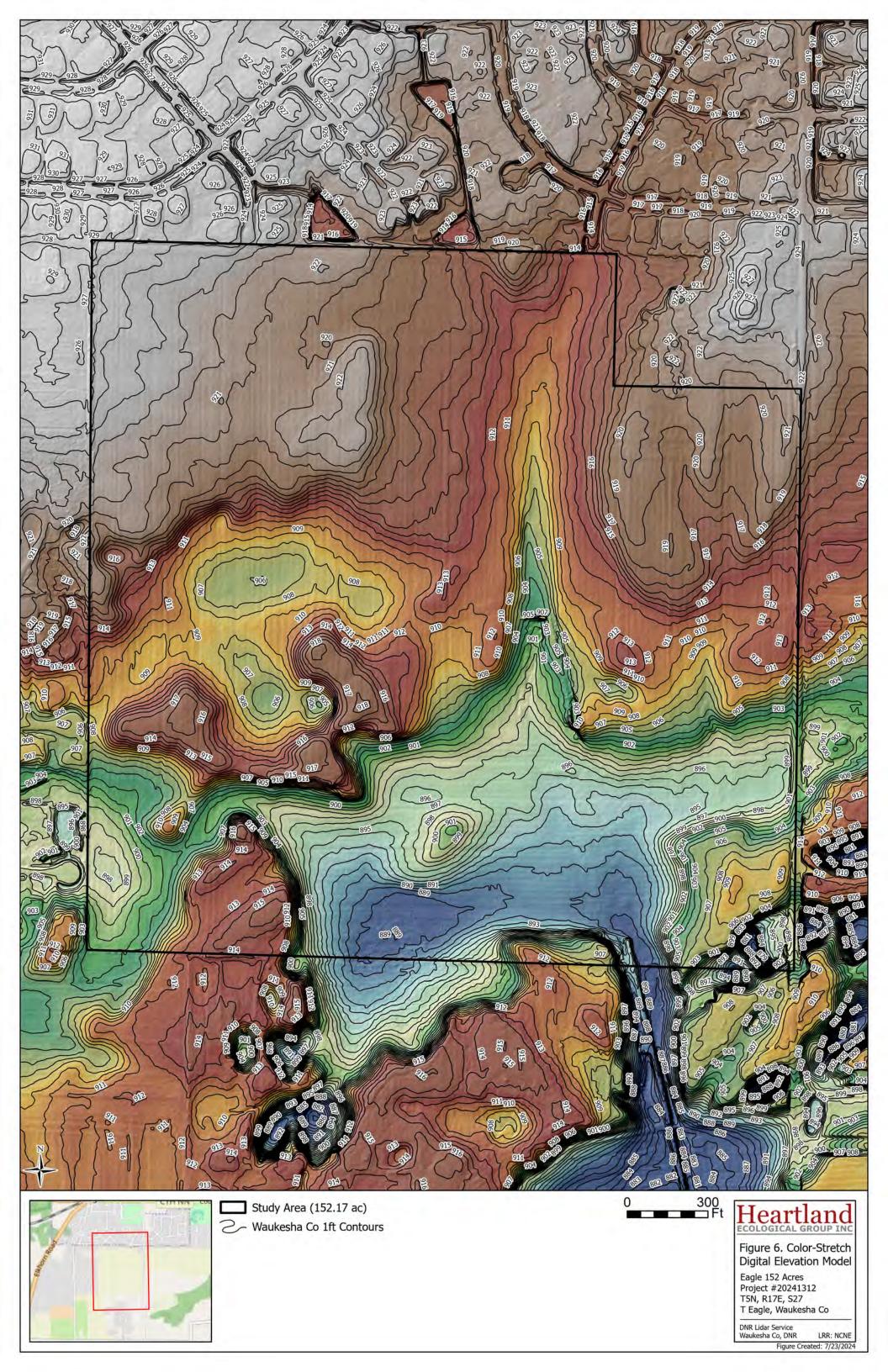
Eagle 152 Acres Project #20241312 T5N, R17E, S27 T Eagle, Waukesha Co

2022 Orthophoto WDNR

LRR: NCNE Figure Created: 7/23/2024



2022 Orthophoto WDNR, USGS LRR: NCNE Figure Created: 7/23/2024





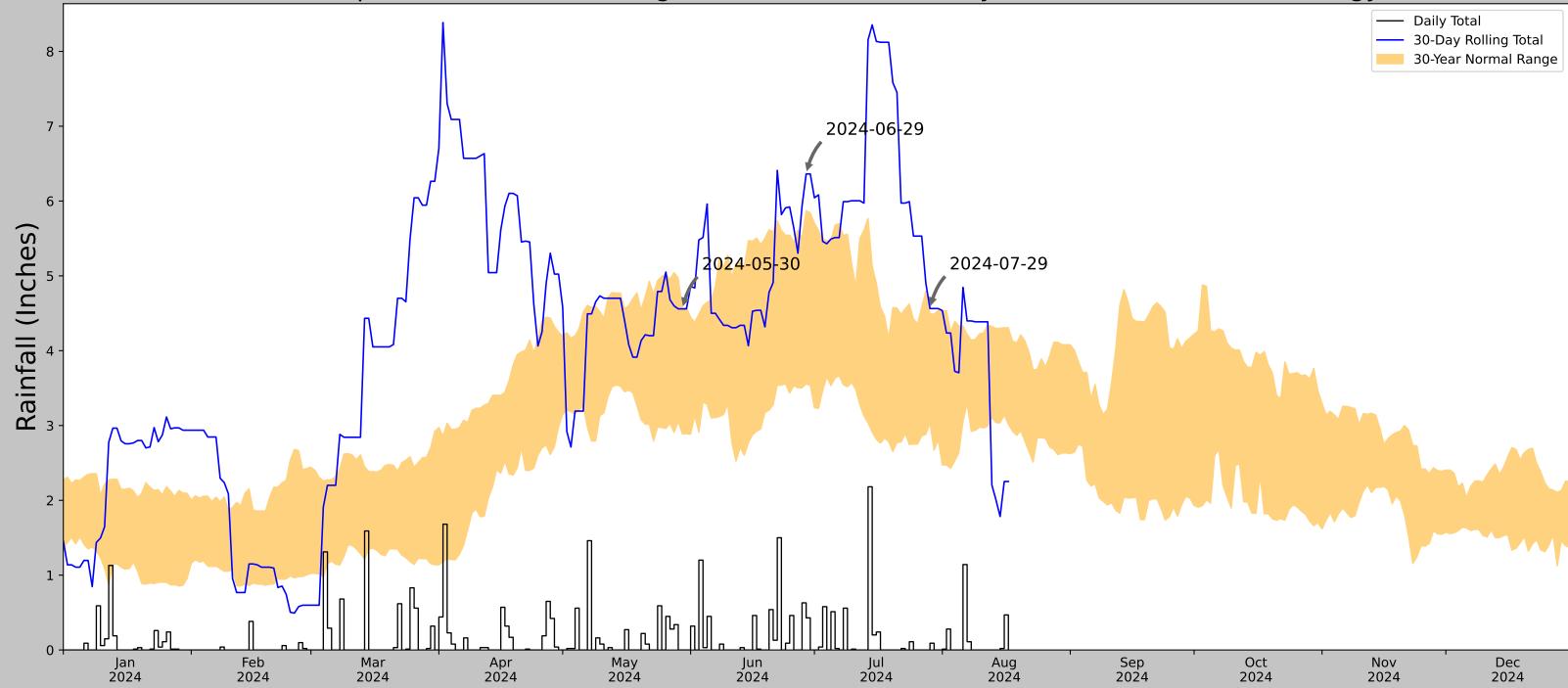


Eagle 152 Acre Property Project #: 20241312 January 22, 2025

Appendix B | APT Analysis

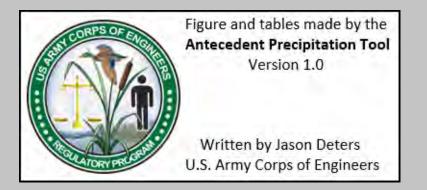
Solutions for people, projects, and ecological resources.

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



| Coordinates | 42.865302, -88.47313 |
|----------------------------------|----------------------|
| Observation Date | 2024-07-29 |
| Elevation (ft) | 897.829 |
| Drought Index (PDSI) | Severe wetness |
| WebWIMP H ₂ O Balance | Dry Season |

| 30 Days Ending | 30 th %ile (in) | 70 th %ile (in) | Observed (in) | Wetness Condition | Condition Value | Month Weight | Product |
|----------------|----------------------------|----------------------------|---------------|-------------------|-----------------|--------------|-------------------------|
| 2024-07-29 | 3.033071 | 4.48937 | 4.562992 | Wet | 3 | 3 | 9 |
| 2024-06-29 | 3.556693 | 5.870473 | 6.362205 | Wet | 3 | 2 | 6 |
| 2024-05-30 | 2.88937 | 4.559449 | 4.559055 | Normal | 2 | 1 | 2 |
| Result | | | | | | | Wetter than Normal - 17 |



| Weather Station Name | Coordinates | Elevation (ft) | Distance (mi) | Elevation Δ | Weighted Δ | Days Normal | Days Antecedent |
|-------------------------|-------------------|----------------|---------------|-------------|------------|-------------|-----------------|
| SULLIVAN 3 SE - WFO MKX | 42.9675, -88.5494 | 929.134 | 8.047 | 31.305 | 3.873 | 10296 | 86 |
| SULLIVAN 3.5 S | 42.9619, -88.5836 | 851.05 | 1.772 | 78.084 | 0.936 | 0 | 2 |
| DOUSMAN 4.6 SSW | 42.9525, -88.5011 | 875.984 | 2.653 | 53.15 | 1.335 | 0 | 2 |
| OCONOMOWOC 4.5 SE | 43.0632, -88.4406 | 887.139 | 8.598 | 41.995 | 4.23 | 45 | 0 |
| OCONOMOWOC WWTP | 43.1003, -88.5036 | 857.94 | 9.463 | 71.194 | 4.932 | 1011 | 0 |



Kaerek Homes Eagle 152 Acre Property Project #: 20241312 January 22, 2025

Appendix C | Wetland Determination Data Sheets

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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Proiect/Site: Eagle 152 Acres Cit | y/County: Waukesha County Sampling Date: <u>2024-07-29</u> | | | | |
|---|--|--|--|--|--|
| | State: Wisconsin Sampling Point: P1 | | | | |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section, Township, Range: sec 27 T005N R017E | | | | | |
| • | relief (concave, convex, none): Concave Slope (%): 3-7 | | | | |
| | Long: <u>-88.464079</u> Datum: <u>WGS84</u> | | | | |
| | | | | | |
| Soil Map Unit Name: <u>Casco-Rodman complex</u> , 20 to 30 p | • | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | | | | | |
| Are Vegetation, Soil, or Hydrology significantly dis | turbed? Are "Normal Circumstances" present? Yes ✓ No | | | | |
| Are Vegetation, Soil, or Hydrology naturally proble | ematic? (If needed, explain any answers in Remarks.) | | | | |
| SUMMARY OF FINDINGS - Attach site map showing sa | ampling point locations, transects, important features, etc. | | | | |
| Hydrophytic Vegetation Present? Yes✓ No | Is the Sampled Area | | | | |
| Hydric Soil Present? Yes No _ ✓ | within a Wetland? Yes No | | | | |
| Wetland Hydrology Present? Yes No 🗸 | If yes, optional Wetland Site ID: | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) | | | | | |
| APT indicates climatic conditions are in the wetter | er than normal range. | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 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 Lea | | | | | |
| High Water Table (A2) Aquatic Fauna (B1 | | | | | |
| Saturation (A3) Marl Deposits (B15) | 5) Dry-Season Water Table (C2) | | | | |
| Water Marks (B1) Hydrogen Sulfide (| Odor (C1) Crayfish Burrows (C8) | | | | |
| Sediment Deposits (B2) Oxidized Rhizosph | neres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) | | | | |
| Drift Deposits (B3) Presence of Reduce | | | | | |
| | ction in Tilled Soils (C6) Geomorphic Position (D2) | | | | |
| Iron Deposits (B5) Thin Muck Surface | | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in F | | | | | |
| Sparsely Vegetated Concave Surface (B8) Field Observations: | FAC-Neutral Test (D5) | | | | |
| Surface Water Present? Yes No _✓ Depth (inches): _ | | | | | |
| Water Table Present? Yes No Depth (inches): _2 | | | | | |
| Saturation Present? Yes _ V No Depth (inches): 2 | | | | | |
| (includes capillary fringe) | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | previous inspections), if available: | | | | |
| 2005-2022 NAIP imagery. | | | | | |
| Remarks: | | | | | |
| No hydrology indicators observed, no saturation. | | | | | |
| Two flydrology findicators observed, no saturation. | | | | | |
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| VEGETATION – | Use | scientific | names | of | plants. |
|-------------------------|-----|------------|----------|----|----------|
| 1 - O - 1 / 1 1 1 O 1 1 | 000 | COICHIGH | 11011100 | ٠. | piarito. |

| /EGETATION – Use scientific names of plants | | | | Sampling Point: P1 |
|---|---------------------|----------------------|-------------|--|
| Tree Stratum (Plot size:30) | Absolute % Cover | Dominant Species? | | Dominance Test worksheet: |
| 1. Rhamnus cathartica | | | | Number of Dominant Species That Are OBL, FACW, or FAC:5(A) |
| 2. Acer negundo | | | | |
| 3 | | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: 83.33 (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| | 25.0 | = Total Cov | ver | OBL species <u>0.00</u> x 1 = <u>0.00</u> |
| Sapling/Shrub Stratum (Plot size:) | | | | FACW species 2.00 x 2 = 4.00 |
| 1. Rhamnus cathartica | 25 | Y | _FAC_ | FAC species 90.00 x 3 = 270.00 |
| 2 | | | | FACU species <u>77.00</u> x 4 = <u>308.00</u> UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| 3 | | | | Column Totals: <u>169.00</u> (A) <u>582.00</u> (B) |
| 4 | | | | |
| 5 | | | | Prevalence Index = B/A = 3.44 |
| 6 | | | | Hydrophytic Vegetation Indicators: |
| 7 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | _25.0_ | = Total Cov | ver | 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ |
| Herb Stratum (Plot size: 5 | | | | 4 - Morphological Adaptations ¹ (Provide supporting |
| 1. <u>Glechoma hederacea</u> | | <u>Y</u> | <u>FACU</u> | data in Remarks or on a separate sheet) |
| 2. Rhamnus cathartica | | <u>Y</u> | <u>FAC</u> | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. <u>Circaea canadensis</u> | | _N_ | <u>FACU</u> | ¹ Indicators of hydric soil and wetland hydrology must |
| 4. <u>Hesperis matronalis</u> | | | FACU | be present, unless disturbed or problematic. |
| 5. <u>Impatiens capensis</u> | | | <u>FACW</u> | 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 |
| | | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 10 | | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 11. | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 12. | | = Total Cov | | height. |
| Woody Vine Stratum (Plot size: 30) | 103.0 | - Total Cov | vei | |
| 1. Vitis riparia | 10 | V | ΕΛC | |
| 2 | | | | |
| 3 | | | | Liudvanhudia |
| 4 | | | | Hydrophytic Vegetation |
| ··· | | = Total Cov | ver | Present? Yes No |
| Remarks: (Include photo numbers here or on a separate | | | | <u> </u> |
| shrub thicket | • | | | |
| | | | | |
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SOIL Sampling Point: P1

| | Matrix Color (moist) | % | Redox Features Color (moist) % Type¹ Loc² | Texture | Remarks |
|--|---|-------------|---|-------------------------|--|
| 0-23 | 10YR 2/1 | 100 | | I EXILITE | |
| | | | | | No redox |
| 23-27 | 10YR 4/1 | | | LS | No redox |
| | | | | | |
| | | | | 20 | Di Donalisia M Matria |
| | oncentration, D=Dep Indicators: | letion, RM= | Reduced Matrix, MS=Masked Sand Grains. | | n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped | pipedon (A2) stic (A3) sh Sulfide (A4) d Layers (A5) d Below Dark Surfacerk Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, M | | MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) |) 5 cm Dark \$ Polyva | Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) Balue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) Ponont Floodplain Soils (F19) (MLRA 149E) Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) |
| ndicators of | f hydrophytic vegeta | tion and we | tland hydrology must be present, unless disturbed | l or problemati | C. |
| estrictive I | _ayer (if observed): | : | | | |
| Type: | | | <u></u> | | |
| Depth (inc | ches): | | <u></u> | Hydric Soi | I Present? Yes No✓ |
| | | | | | |

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: <u>Eagle 152 Acres</u> City/C | County: Waukesha County Sampling Date: 2024-07-29 |
|--|---|
| _ | State: Wisconsin Sampling Point: P2 |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section | |
| Landform (hillslope, terrace, etc.): Swale Local rel | |
| | |
| Subregion (LRR or MLRA): LRR L, MLRA 95 Lat: 42.864420 | |
| Soil Map Unit Name: Lorenzo loam, 2 to 6 percent slopes, | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | es ✓ No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly distur | bed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing same | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes✓ No | Is the Sampled Area |
| Hydric Soil Present? Yes No✓ | within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No✓ | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| APT indicates climatic conditions are in the wetter | than normal range. Swale with perpendicular fill |
| ridge at property line, blocking surface drainage in | |
| | |
| | |
| | |
| 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 Leave | s (B9) Drainage Patterns (B10) |
| High Water Table (A2) Aquatic Fauna (B13) | |
| Saturation (A3) Marl Deposits (B15) | |
| Water Marks (B1) Hydrogen Sulfide Od | |
| Sediment Deposits (B2) Oxidized Rhizospheri | |
| Drift Deposits (B3) Presence of Reduced Algal Mat or Crust (B4) Recent Iron Reduction | |
| Iron Deposits (B5) Thin Muck Surface (0 | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer | |
| 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 No ✓ Depth (inches): | Wetland Hydrology Present? Yes No✓ |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| | |
| 2005-2022 NAIP imagery. Intermittent waterway sl | lowir iii Ni ib layer. |
| Remarks: | |
| No hydrology indicators observed, no saturation. | |
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| VEGETATION – | Use | scientific | names | of | plants. |
|---------------------|-----|------------|-------|----|---------|
| | | | | | |

| VEGETATION - Use scientific names of plants. | | | | Sampling Point: P2 |
|---|---------------------|------------|-------------|---|
| Tree Stratum (Plot size:30) | Absolute % Cover | | | Dominance Test worksheet: |
| 1. Rhamnus cathartica | 30 | Υ | FAC | Number of Dominant Species That Are OBL, FACW, or FAC:4 (A) |
| 2. <u>Acer negundo</u> | | | | |
| 3. Prunus serotina | | | | Total Number of Dominant Species Across All Strata: 5 (B) |
| 4 | | | | |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 80.00 (A/B) |
| 6 | | | | |
| | | | | Prevalence Index worksheet: |
| 7 | | = Total Co | | |
| Sapling/Shrub Stratum (Plot size: 15) | _00.0_ | - Total Co | vei | FACW species 0.00 x2 = 0.00 |
| | ΕO | V | | FAC species 115.00 x3 = 345.00 |
| 1. Rhamnus cathartica | | | | FACU species 19.00 x 4 = 76.00 |
| 2 | | | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| 3 | | | | Column Totals: <u>134.00</u> (A) <u>421.00</u> (B) |
| 4 | | | | Prevalence Index = B/A = 3,14 |
| 5 | | | | |
| 6 | | | | Hydrophytic Vegetation Indicators: |
| 7 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | _50.0 | = Total Co | ver | 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ |
| Herb Stratum (Plot size:) | | | | 4 - Morphological Adaptations ¹ (Provide supporting |
| 1. Rhamnus cathartica | 20 | <u>Y</u> | _FAC_ | data in Remarks or on a separate sheet) |
| 2. Parthenocissus quinquefolia | | <u>N</u> | <u>FACU</u> | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. <u>Glechoma hederacea</u> | 2 | N | <u>FACU</u> | The disease of budgies of lead weathered budgets on the second |
| 4 | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 5 | | | | Definitions of Vegetation Strata: |
| 6 | | | | _ |
| 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. | | | | Woody vines – All woody vines greater than 3.28 ft in |
| 12. | | = Total Co | ····· | height. |
| Woody Vine Stratum (Plot size: 30) | | - Total Co | vei | |
| | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4 | | | | Present? Yes No |
| | | = Total Co | ver | |
| Remarks: (Include photo numbers here or on a separate | sneet.) | | | |
| Shrub thicket | | | | |
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SOIL Sampling Point: P2

| ncnesi | Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | _ Texture | Remarks |
|--|---|---------------|---|---|---|
| 0-14 | 10YR 3/1 | 100 | | LS | No redox |
| | | | | | |
| 14-24 | 10YR 3/2 | | | _ <u>LS</u> | No redox |
| | | | | | |
| | | | Doduced Matrix MC-Marked Cond Online | 21 | Di - Dana Linia a M-Matrix |
| | oncentration, ש=שפס Indicators: | ietion, RIVI= | Reduced Matrix, MS=Masked Sand Grains. | | n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy F Stripped | pipedon (A2) stic (A3) sh Sulfide (A4) d Layers (A5) d Below Dark Surfacerk Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, M | | MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) | B) 5 cm Dark : Polyv Thin I Iron-N Piedn Mesic Red F Very : | t Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 1498 E Spodic (TA6) (MLRA 144A, 145, 1498 Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) |
| ndicators o | f hydrophytic vegeta | tion and we | tland hydrology must be present, unless disturbe | ed or problemati | C. |
| estrictive l | Layer (if observed): | : | | | |
| Type: | | | <u>—</u> . | | |
| Depth (in | ches): | | | Hydric Soi | I Present? Yes No✓ |
| | | | | | |

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: Eagle 152 Acres City | //County: <u>T Eagle - Waukesha Co.</u> Sampling Date: <u>2024-07-29</u> |
|--|--|
| Applicant/Owner: Kaerek Homes | |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Sec | ction, Township, Range: <u>Section 27, T5N, R17E</u> |
| • | relief (concave, convex, none): Concave Slope (%): 0-2 |
| • | Long: -88.469182 Datum: WGS84 |
| | NWI classification: F0Kf |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| | turbed? Are "Normal Circumstances" present? Yes No _ ✓ |
| Are Vegetation, Soil, or Hydrology naturally problem | |
| | ampling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes ✓ No | Is the Sampled Area within a Wetland? Yes No |
| Hydric Soil Present? Yes _ ✓ _ No Wetland Hydrology Present? Yes _ ✓ _ No | |
| Remarks: (Explain alternative procedures here or in a separate report.) | If yes, optional Wetland Site ID: W-1 |
| APT indicates climatic conditions are in the wette | r than normal range. Farmed in most years, not |
| | I Man normal range. Farmed in most years, not |
| NC. | |
| | |
| | |
| LIVEROLOGY | |
| HYDROLOGY Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | |
| Surface Water (A1) Water-Stained Lea | |
| Surface Water (A1) Water-staffed Lear Aquatic Fauna (B1) | |
| ✓ Saturation (A3) — Marl Deposits (B15 | |
| Water Marks (B1) Hydrogen Sulfide C | |
| | eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) Presence of Reduc | |
| Algal Mat or Crust (B4) Recent Iron Reduct | · · · · · · · · · · · · · · · · · · · |
| Iron Deposits (B5) Thin Muck Surface | |
| Indit Deposits (B5) Thin Mack Guidace Inundation Visible on Aerial Imagery (B7) Other (Explain in R | |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | <u> </u> |
| Surface Water Present? Yes No _ ✓ _ Depth (inches): | |
| Water Table Present? Yes _ ✓ No Depth (inches): 1 | |
| Saturation Present? Yes _ ✓ No Depth (inches): <u>0</u> | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | revious inspections), if available: |
| OSA Completed. Consistent signature area. | , , , |
| , | |
| Remarks: | |
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| Trace Characters (Plat size) | Absolute | Dominant | | Dominance Test worksheet: |
|---|----------|-------------|-------------|---|
| Tree Stratum (Plot size:30) 1 | | Species? | | Number of Dominant Species That Are OBL, FACW, or FAC:3 (A) |
| 2 | | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| | 0 | = Total Cov | /er | OBL species <u>22.00</u> x 1 = <u>22.00</u> |
| Sapling/Shrub Stratum (Plot size:) | | | | FACW species <u>25.00</u> x 2 = <u>50.00</u> |
| 1 | | | | FAC species <u>15.00</u> x 3 = <u>45.00</u> |
| | | | | FACU species |
| 2 | | | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| 3 4 | | | | Column Totals: <u>69.00</u> (A) <u>145.00</u> (B) |
| 5 | | | | Prevalence Index = B/A = 2.1 |
| 6 | | | | Hydrophytic Vegetation Indicators: |
| 7 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | = Total Cov | | ✓ 2 - Dominance Test is >50% |
| Herb Stratum (Plot size:5) | | - 10101 001 | 701 | 3 - Prevalence Index is ≤3.0¹ |
| | 20 | Υ | EAC)4/ | 4 - Morphological Adaptations ¹ (Provide supporting |
| 1. Cyperus esculentus | | | FACW | data in Remarks or on a separate sheet) |
| 2. <u>Echinochloa crus-galli</u> | | <u>Y</u> | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3. <u>Eleocharis obtusa</u> | | | OBL | ¹ Indicators of hydric soil and wetland hydrology must |
| 4. <u>Ambrosia artemisiifolia</u> | | N | <u>FACU</u> | be present, unless disturbed or problematic. |
| 5. <u>Persicaria hydropiper</u> | | | OBL | Definitions of Vegetation Strata: |
| 6. <u>Hypericum majus</u> | 5 | N | <u>FACW</u> | 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 and greater than or equal to 3.28 ft (1 m) tall. |
| 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 |
| | 69.0 | = Total Cov | /er | height. |
| Woody Vine Stratum (Plot size: 30 | | | | |
| 1 | | | | |
| | | | | |
| 2. | | | | |
| 3 | | | | Hydrophytic Vegetation |
| 4 | _ | = Total Cov | /er | Present? Yes/ No |
| Remarks: (Include photo numbers here or on a separate | | = 10tai 00t | 701 | |

SOIL Sampling Point: P3

| | | | to the de | oth needed | | | | or confirm | the absence | e of indicators.) | |
|-------------------|-----------------------------|------------------|--------------|--------------|---------------|--------------------|--------------------|------------------|--|--|--|
| Depth (inches) | Color (r | Matrix noist) | % | Color (n | | x Features % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-10 | 10YR | 3/1 | 95 | 10YR | 3/2 | 5 | С | М | SL | Faint redox | |
| 10-16 | 10YR | 4/2 | 95 | 10YR | 4/4 | 5 | С | M | LS | distinct redox | |
| 16-24 | | | | 10YR | | 10 | C | M | LS | | |
| 10 27 | 10111 | 0/ 1 | | 1011 | 0/0 | 10 | | | | | |
| | - | | | _ | | | | | | | |
| | - | | | - | | | | | | | |
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| | | | | | | | | | | | |
| ¹Type: C=C | oncentration | D-Deni | letion RM | -Reduced M | Astriv MS | S-Masked | Sand Gr | | ² l ocatio | n: PL=Pore Lining, M=Matrix. | |
| Hydric Soil | | | ietion, ixiv | -Neduced I | riatrix, ivic | <u>J-IVIASKEU</u> | Sand On | airis. | | s for Problematic Hydric Soils ³ : | |
| Histosol | | | | | | w Surface | (S8) (LR ! | RR, | | Muck (A10) (LRR K, L, MLRA 149B) | |
| | pipedon (A2 listic (A3) |) | | | RA 149B) | | DD D M | LRA 149B) | | t Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) | |
| | en Sulfide (A | 4) | | | | /lineral (F1 | | | | Surface (S7) (LRR K, L) | |
| Stratifie | d Layers (A5 | 5) | | Loamy | Gleyed I | Matrix (F2) | | | Polyv | alue Below Surface (S8) (LRR K, L) | |
| | d Below Dar ark Surface | | e (A11) | | ed Matrix | (F3) rface (F6) | | | | Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) | |
| | Mucky Miner | | | | | Surface (F6) | 7) | | | nont Floodplain Soils (F19) (MLRA 149B) | |
| Sandy C | Gleyed Matri | | | | | ions (F8) | , | | Mesic Spodic (TA6) (MLRA 144A, 145, 149B) | | |
| | Redox (S5) d Matrix (S6) | | | | | | | | Red Parent Material (F21) Very Shallow Dark Surface (TF12) | | |
| | urface (S7) (I | | ILRA 149 | B) | | | | | | (Explain in Remarks) | |
| 3 | | | | | | | | | | | |
| Restrictive | | _ | | etland hydro | logy mus | t be prese | nt, unless | s disturbed | or problemati | C. | |
| Type: | Luyer (II ob | oci vouj. | | | | | | | | | |
| Depth (in | nches): | | | | | | | | Hydric Soi | il Present? Yes/ No | |
| Remarks: | , | | | | | | | | | | |
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

| Project/Site: Eagle 152 Acres City. | /County: Waukesha County Sampling Date: 2024-07-29 |
|---|---|
| Applicant/Owner: Kaerek Homes | State: Wisconsin Sampling Point: P4 |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Sec | tion, Township, Range: Sec 27 T005N R017E |
| • | elief (concave, convex, none): Concave Slope (%): 0-2 |
| • | Long: -88.468752 Datum: WGS84 |
| Soil Map Unit Name: Lorenzo loam, 2 to 6 percent slopes | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| | urbed? Are "Normal Circumstances" present? Yes No✓ |
| Are Vegetation, Soil, or Hydrology naturally probler | |
| | mpling point locations, transects, important features, etc. |
| | Is the Sampled Area |
| Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes No ✓ | within a Wetland? Yes No✓ |
| Wetland Hydrology Present? Yes ✓ No | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) | ii yoo, optional wotana otto ib. |
| APT indicates climatic conditions are in the wetter | r than normal range. Planted in soybeans at P4 |
| not NC. | than normal range. I lanted in boybeans at 1 4, |
| HOUNG. | |
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| 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 Leav | |
| High Water Table (A2) Aquatic Fauna (B13 | |
| Saturation (A3) Marl Deposits (B15) | |
| Water Marks (B1) Hydrogen Sulfide O | |
| | eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) Presence of Reduct | |
| Algal Mat or Crust (B4) Recent Iron Reduct | |
| Iron Deposits (B5) Thin Muck Surface Inundation Visible on Aerial Imagery (B7) Other (Explain in Ro | |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | (D3) |
| Surface Water Present? Yes No _ ✓ Depth (inches): | |
| 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, pr | |
| OSA completed. Signature area only consistent s | outhwest of P4. |
| Remarks: | |
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| EGETATION – Use scientific names of plant | Absolute | Dominant Indicator | Sampling Point: <u>P4</u> |
|--|-----------|--------------------|---|
| Tree Stratum (Plot size: 30) | | Species? Status | Dominance Test worksheet: |
| 1 | | | Number of Dominant Species That Are OBL, FACW, or FAC:0 (A) |
| 2 | | | Total Number of Dominant |
| 3 | | | Species Across All Strata: 0 (B) |
| 4 | | | Percent of Dominant Species |
| 5 | | | That Are OBL, FACW, or FAC: (A/B |
| 6. | | | Barrelon - Indonesia de la esta |
| 7 | | | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| | | = Total Cover | |
| Sapling/Shrub Stratum (Plot size:15) | | 10.01.00101 | FACW species 0.00 x 2 = 0.00 |
| 1 | | | FAC species 3.00 x 3 = 9.00 |
| | | | FACU species <u>0.00</u> x 4 = <u>0.00</u> |
| 2 | | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| 3 | | | Column Totals: <u>3.00</u> (A) <u>9.00</u> (B) |
| 4 | | | Prevalence Index = B/A = 3.0 |
| 5 6 | | | Hydrophytic Vegetation Indicators: |
| | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | ∠ 2 - Dominance Test is >50% |
| | | = Total Cover | 3 - Prevalence Index is ≤3.0¹ |
| Herb Stratum (Plot size: 5) 1. <u>Echinochloa crus-galli</u> | 3 | Y FAC | 4 - Morphological Adaptations¹ (Provide supportindata in Remarks or on a separate sheet) |
| 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 | | | |
| 7 | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamete 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 | | | Woody vines – All woody vines greater than 3.28 ft in |
| | 3.0 | = Total Cover | height. |
| Woody Vine Stratum (Plot size:) | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | Hydrophytic |
| 4 | | | Vegetation Present? |
| | 0 | = Total Cover | |
| Remarks: (Include photo numbers here or on a separat | e sheet.) | | , |
| Ag field planted in somewhat healthy | soybean | crop, minor stre | ess, about 12in tall. |
| | | | |
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| Depth | N 4 - 4 | | h needed to document the indicator or confirm | | |
|---------------------------------------|--|-------------|---|---------------|--|
| (inches) | Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | Texture | Remarks |
| 0-18 | 10YR 3/1 | 100 | | SL | No redox |
| <u>18-24</u> | 10YR 5/4 | 100 | | S | No redox |
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| ¹ Type: C=C Hydric Soil | | letion, RM= | Reduced Matrix, MS=Masked Sand Grains. | | n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| Histoso | I (A1) | <u>-</u> | Polyvalue Below Surface (S8) (LRR R, | 2 cm | Muck (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) listic (A3) | | MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) | | : Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) |
| Hydroge | en Sulfide (A4) | - | Loamy Mucky Mineral (F1) (LRR K, L) | Dark | Surface (S7) (LRR K, L) |
| | d Layers (A5) | - (044) | Loamy Gleyed Matrix (F2) | - | alue Below Surface (S8) (LRR K, L) |
| | ed Below Dark Surfac ark Surface (A12) | e (A11) _ | Depleted Matrix (F3) Redox Dark Surface (F6) | | Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) |
| | Mucky Mineral (S1) | - - | Depleted Dark Surface (F7) | | nont Floodplain Soils (F19) (MLRA 149B) |
| | Gleyed Matrix (S4) | _ | Redox Depressions (F8) | | Spodic (TA6) (MLRA 144A, 145, 149B) |
| - | Redox (S5) | | | | Parent Material (F21) |
| | d Matrix (S6) urface (S7) (LRR R, N | MLRA 149B |) | - | Shallow Dark Surface (TF12) (Explain in Remarks) |
| | | | tland hydrology must be present, unless disturbed o | or problemati | С. |
| | Layer (if observed): | ! | | | |
| Type: | | | _ | Hydric Soi | I Present? Yes No✓_ |
| Depth (in | nches): | | | nyunc 301 | resent: res Nov |
| Remarks: | | | | | |
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| Project/Site: <u>Eagle 152 Acres</u> City/C | County: Waukesha County Sampling Date: 2024-07-29 |
|---|---|
| | State: Wisconsin Sampling Point: P5 |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section | |
| Landform (hillslope, terrace, etc.): Depression Local reli | |
| · · · · · · · · · · · · · · · · · · · | |
| Subregion (LRR or MLRA): LRR L, MLRA 95 Lat: 42.865300 | |
| Soil Map Unit Name: Warsaw sandy loam, 2 to 6 percent s | • |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | es No✓ (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly distur | bed? Are "Normal Circumstances" present? Yes No✓ |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing sam | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes ✓ No | Is the Sampled Area |
| Hydric Soil Present? Yes No _ ✓ | within a Wetland? Yes No✓ |
| Wetland Hydrology Present? Yes No ✓ | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| APT indicates climatic conditions are in the wetter | than normal range. Agricultural field, not NC. |
| The indicates similate conditions are in the wotter | than normal range. Agricultaral nora, net 140. |
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| 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 Leave | |
| High Water Table (A2) Aquatic Fauna (B13) | |
| Saturation (A3) Marl Deposits (B15) | |
| Water Marks (B1) Hydrogen Sulfide Od | |
| Sediment Deposits (B2) Oxidized Rhizosphere | |
| Drift Deposits (B3) Presence of Reduced | ` ' |
| Algal Mat or Crust (B4) Recent Iron Reductio Iron Deposits (B5) Thin Muck Surface (C | |
| | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren | |
| Sparsely Vegetated Concave Surface (B8) Field Observations: | FAC-Neutral Test (D5) |
| Surface Water Present? Yes No _✓ Depth (inches): | |
| 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, pre | vious inspections), if available: |
| OSA completed. Not a consistent signature area. | |
| Remarks: | |
| | |
| No hydrology indicators observed, no saturation. | |
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| · | S. Absoluto | Dominant Indicator | Sampling Point: <u>P5</u> |
|--------------------------------------|-------------|--------------------|--|
| ree Stratum (Plot size:30) | | Species? Status | Dominance Test worksheet: |
| • | | | Number of Dominant Species That Are OBL, FACW, or FAC:0 (A) |
| | | | Total Number of Dominant |
| | | | Species Across All Strata: 0 (B) |
| | | | Percent of Dominant Species |
| | | | That Are OBL, FACW, or FAC: (A/B |
| | | | Businella mana landari vivo altra haneta |
| | | | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| | | = Total Cover | OBL species 0.00 x1 = 0.00 |
| apling/Shrub Stratum (Plot size:15) | | Total Gover | FACW species 0.00 x 2 = 0.00 |
| | | | FAC species 3.00 x 3 = 9.00 |
| | | | FACU species 0.00 x 4 = 0.00 |
| | | | UPL species 0.00 x 5 = 0.00 |
| | | | Column Totals: 3.00 (A) 9.00 (B) |
| | | | |
| | | | Prevalence Index = B/A = 3.0 |
| | | | Hydrophytic Vegetation Indicators: |
| | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | 0 | = Total Cover | ∠ 2 - Dominance Test is >50% |
| lerb Stratum (Plot size:5) | | | 3 - Prevalence Index is ≤3.0¹ |
| , _ <u>Echinochloa crus-galli</u> | 3 | Y FAC | 4 - 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. |
| | | | Definitions of Vegetation Strata: |
| | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamete |
| | | | at breast height (DBH), regardless of height. |
| | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 0 | | | Herb – All herbaceous (non-woody) plants, regardless |
| 1 | | | of size, and woody plants less than 3.28 ft tall. |
| 2. | | | Woody vines – All woody vines greater than 3.28 ft in |
| | | = Total Cover | height. |
| Voody Vine Stratum (Plot size: 30) | | rotal Gover | |
| | | | |
| | | | |
| | | | |
| i | | | Hydrophytic |
| · | | | Vegetation Present? Yes ✓ No |
| | Ω | = Total Cover | |

SOIL

| | cription: (Describe | to the dep | th needed | | | | or confirm | the absence | of indicators.) | |
|------------------------|---|--------------|--------------|--------------|-----------------------------------|--------------------|-------------------|---------------|---|--|
| Depth (inches) | Matrix Color (moist) | % | Color (n | | <u>k Features</u> % | Type ¹ | Loc ² | Texture | Ren | narks |
| 0-12 | 10YR 3/1 | 100 | | • | | | | SL | No redox | |
| 12-18 | 10YR 4/2 | 100 | | | | | | LS | No redox | |
| | 10YR 5/4 | | 10YR | 5/8 | 15 | | | LS | | |
| _10-2- | 10111 3/4 | | 1011 | <u> </u> | | | | | | |
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| 1 _{Tumor} C=C | ancentration D=Den | lotion DM | -Dadusad N | Actrix NAC | | Cand Cr | | 2l continu | . DI -Dara Lining | M-Matrix |
| Hydric Soil | oncentration, D=Dep Indicators: | ietion, Rivi | -Reduced N | natrix, ivis | =iviasked | Sand Gra | ains. | | n: PL=Pore Lining, last for Problematic H | |
| Histosol | (A1) | | Polyva | lue Belov | v Surface | (S8) (LR F | RR, | | Muck (A10) (LRR K , | - |
| | oipedon (A2) | | | RA 149B) | | | | | Prairie Redox (A16 | |
| | istic (A3) en Sulfide (A4) | | | | ce (S9) (L 1ineral (F1 | | _RA 149B) . L) | | Mucky Peat or Peat Surface (S7) (LRR F | |
| | d Layers (A5) | | | | Matrix (F2) | | , –, | | alue Below Surface | |
| | d Below Dark Surface | e (A11) | | ed Matrix | | | | | Dark Surface (S9) (L | • |
| | ark Surface (A12) /lucky Mineral (S1) | | | | face (F6) Surface (F | 7) | | | | (F12) (LRR K, L, R) s (F19) (MLRA 149B) |
| - | Gleyed Matrix (S4) | | | Depress | | ') | | | | RA 144A, 145, 149B) |
| - | Redox (S5) | | | | | | | | arent Material (F21) | |
| | l Matrix (S6) rface (S7) (LRR R, N | M DA 1491 | 2 \ | | | | | | Shallow Dark Surfac (Explain in Remark) | |
| Dark Su | nace (S7) (LKK K, N | ILKA 145 |) | | | | | Other | (Explain in Remark | >) |
| | f hydrophytic vegetat | | etland hydro | logy mus | t be prese | nt, unless | disturbed | or problemati | c. | |
| | Layer (if observed): | | | | | | | | | |
| Type: | | | | | | | | Hudria Sail | I Present? Yes _ | No <u>√</u> |
| Depth (in | ches): | | | | | | | nyuric Soi | i Present? Tes _ | NO <u>v</u> |
| Remarks: | | | | | | | | | | |
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| Project/Site: Eagle 152 Acres C | ity/County: Waukesha County Sampling Date: 2024-07-29 |
|--|---|
| • | State: Wisconsin Sampling Point: P6 |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka S | ection, Township, Range: Sec 27 T005N R017E |
| • | ıl relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0-2</u> |
| | Long: <u>-88.472535</u> Datum: <u>WGS84</u> |
| Soil Map Unit Name: Warsaw sandy loam, 2 to 6 percer | |
| Are climatic / hydrologic conditions on the site typical for this time of year | · |
| | isturbed? Are "Normal Circumstances" present? Yes No✓ |
| Are Vegetation, Soil, or Hydrology naturally problem. | |
| | |
| SUMMARY OF FINDINGS – Attach site map showing s | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area |
| Hydric Soil Present? Yes No✓ | within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No _ ✓ | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report. | |
| APT indicates climatic conditions are in the wett | er than normal range. Agricultural field, not NC. |
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| 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 Let High Water Table (A2) Aquatic Fauna (B | · · · |
| Aduatic radia (B) Aduatic radia (B) Marl Deposits (B) | |
| Vater Marks (B1) Hydrogen Sulfide | |
| | oheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) Presence of Red | |
| , , , | uction in Tilled Soils (C6) Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck Surfac | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in | |
| 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 No ✓ Depth (inches): (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, | previous inspections), if available: |
| OSA completed. Not a consistent signature area | ā. |
| Remarks: | |
| Minor crop stress observed in portions of this de | epression. |
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| | Absolute | | Dominance Test worksheet: |
|---|----------|-----------------|--|
| Tree Stratum (Plot size: 30) | % Cover | Species? Status | Number of Dominant Species |
| l | _ | | That Are OBL, FACW, or FAC: (A) |
| 2 | | | Total Number of Dominant |
| 3 | | | Species Across All Strata: (B) |
| l | | | Percent of Dominant Species |
| i | | | That Are OBL, FACW, or FAC: (A/B) |
| 3 | | | Duayalanaa laday yyankabaati |
| · . | | | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| | | = Total Cover | |
| Sapling/Shrub Stratum (Plot size:15) | | - Total Cover | FACW species 0.00 x 2 = 0.00 |
| | | | FAC species 0.00 x3 = 0.00 |
| l. <u>.</u> | | | FACU species 0.00 x 4 = 0.00 |
|) | | | UPL species 0.00 x 5 = 0.00 |
| 8 | _ | | Column Totals: 0.00 (A) 0.00 (B) |
| l | | | |
| 5 | | | Prevalence Index = B/A = |
| S | | | Hydrophytic Vegetation Indicators: |
| 7 | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | _ | = Total Cover | 2 - Dominance Test is >50% |
| Herb Stratum (Plot size: 5 | | | 3 - Prevalence Index is ≤3.0 ¹ |
| | | | 4 - Morphological Adaptations¹ (Provide supporting |
| 1 | | | data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2 | | | - Problematic Hydrophytic Vegetation (Explain) |
| 3 | | | Indicators of hydric soil and wetland hydrology must |
| ł | | | be present, unless disturbed or problematic. |
| 5 | | | Definitions of Vegetation Strata: |
| 5 | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter |
| 7 | _ | | at breast height (DBH), regardless of height. |
| 3 | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| 9 | | | 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. |
| | | | Woody vines – All woody vines greater than 3.28 ft in |
| 12 | | | height. |
| 20 | | = Total Cover | |
| Noody Vine Stratum (Plot size: 30) | | | |
| 1 | _ | | |
| 2 | _ | | |
| 3 | | | Hydrophytic |
| 4 | | | Vegetation Present? Yes No✓ |
| | 0 | = Total Cover | 11030HL 103 NO |
| Remarks: (Include photo numbers here or on a separate | | | 1 |
| Ag field planted in healthy soybean crovegetation based on other parameters | • | | · · · · · · · · · · · · · · · · · · · |

SOIL

| | • | to the dept | th needed to document the indicator or confirm | the absence | of indicators.) |
|---------------------------|--------------------------------------|-------------|---|-----------------------|--|
| Depth (inches) | Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | Texture | Remarks |
| 0-16 | 10YR 4/2 | 100 | | LS | No redox |
| 16-24 | 10YR 5/4 | 100 | | S | No redox |
| | | | | | |
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| ¹Type: C=C | oncentration. D=Dep | letion. RM= | Reduced Matrix, MS=Masked Sand Grains. | ² Location | n: PL=Pore Lining, M=Matrix. |
| Hydric Soil | | , | , | | for Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | | Muck (A10) (LRR K, L, MLRA 149B) |
| | pipedon (A2) istic (A3) | | Thin Dark Surface (S9) (LRR R, MLRA 149B) | | Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) |
| Hydroge | en Sulfide (A4) | | Loamy Mucky Mineral (F1) (LRR K, L) | Dark S | Surface (S7) (LRR K, L) |
| | d Layers (A5) d Below Dark Surfac | ρ (Δ11) | Loamy Gleyed Matrix (F2) Depleted Matrix (F3) | | alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) |
| | ark Surface (A12) | e (ATT) | Redox Dark Surface (F6) | | Manganese Masses (F12) (LRR K, L, R) |
| Sandy N | Mucky Mineral (S1) | | Depleted Dark Surface (F7) | Piedm | nont Floodplain Soils (F19) (MLRA 149B) |
| | Gleyed Matrix (S4) | | Redox Depressions (F8) | | Spodic (TA6) (MLRA 144A, 145, 149B) |
| - | Redox (S5) I Matrix (S6) | | | | Parent Material (F21) Shallow Dark Surface (TF12) |
| | rface (S7) (LRR R, N | /ILRA 149B |) | | (Explain in Remarks) |
| ³ Indicators o | f hydrophytic vegeta | tion and we | tland hydrology must be present, unless disturbed o | or problemati | C. |
| | Layer (if observed): | | | | |
| Type: | | | <u></u> | | |
| Depth (in | ches): | | | Hydric Soi | I Present? Yes No✓ |
| Remarks: | | | | | |
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| Project/Site: <u>Eagle 152 Acres</u> City/C | County: Waukesha County Sampling Date: 2024-07-29 |
|--|---|
| | State: Wisconsin Sampling Point: P7 |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section | |
| Landform (hillslope, terrace, etc.): Depression Local reli | |
| | |
| Subregion (LRR or MLRA): <u>LRR L, MLRA 95</u> Lat: <u>42.868488</u> | |
| Soil Map Unit Name: Lorenzo loam, 6 to 12 percent slopes | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | es No ✓ (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly disturb | bed? Are "Normal Circumstances" present? Yes No✓ |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing sam | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area |
| Hydric Soil Present? Yes No ✓ | within a Wetland? Yes No✓ |
| Wetland Hydrology Present? Yes No ✓ | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| APT indicates climatic conditions are in the wetter | than normal range. Agricultural field, not NC |
| The final contraction of the first world | than normal range. Agricultaral nota, not ive. |
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| 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 Leave | |
| High Water Table (A2) Aquatic Fauna (B13) | |
| Saturation (A3) Marl Deposits (B15) | |
| Water Marks (B1) Hydrogen Sulfide Odd | |
| Sediment Deposits (B2) Oxidized Rhizosphere | |
| Drift Deposits (B3) Presence of Reduced | |
| Algal Mat or Crust (B4) Recent Iron Reductio | ` ' |
| Iron Deposits (B5) Thin Muck Surface (C | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren | |
| 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 No _ ✓ Depth (inches): | Wetland Hydrology Present? Yes No✓ |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vieus inspections) if available: |
| | vious inspections), ii available. |
| OSA completed. Not a consistent signature area | |
| Remarks: | |
| No hydrology indicators observed, no saturation | |
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| Absolute | | Dominance Test worksheet: |
|----------|-----------------|--|
| | Species? Status | 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: |
| 0 | = Total Cover | OBL species <u>0.00</u> x 1 = <u>0.00</u> |
| | | FACW species <u>0.00</u> x 2 = <u>0.00</u> |
| | | FAC species <u>0.00</u> x 3 = <u>0.00</u> |
| | | FACU species <u>0.00</u> x 4 = <u>0.00</u> |
| | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| | | Column Totals: <u>0.00</u> (A) <u>0.00</u> (B) |
| | | Prevalence Index = B/A = |
| | | Hydrophytic Vegetation Indicators: |
| | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | 2 - Dominance Test is >50% |
| | = Total Cover | 3 - Prevalence Index is ≤3.0 ¹ |
| | | 4 - 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. |
| | | Definitions of Vegetation Strata: |
| | | Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height. |
| | | Sapling/shrub – Woody plants less than 3 in. DBH |
| | | and greater than or equal to 3.28 ft (1 m) tall. |
| | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| | | |
| | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | - Total Cover | |
| | | |
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| | | Hydrophytic Vegetation Present? Yes No✓_ |
| | | |

SOIL Sampling Point: P7

| ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. yperic Soil Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic (Epipedon (A2) Black Histic (A3) Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loarny Mucky Mineral (F1) (LRR K, L) Depleted Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sendy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Rody Mineral (S1) Sandy Mucky Mineral (S1) Sandy Rody Mineral (S1) Sandy Rody Matrix (S4) Redox Dark Surface (F7) Redox Dark Surface (F7) Sitipped Matrix (S4) Redox Dark Surface (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dictators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No | ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. dric Soil Indicators: Historol (A1) Historol (A2) Black Histic (A3) Historol (A4) Loamy Micky Mineral (F1) Loamy Gleyed Matrix (F3) Straffied Layers (A5) Depleted Delvo Wards (A11) Depleted Matrix (F3) Sandy Mcdxy Mineral (S1) Sandy Mcdxy Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redva (A5) Stripped Matrix (S4) Redox Depressions (F8) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Hydric Soil Present? Yes No ✓ | ppe: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. dric Soil Indicators: Historosi (A1) Historosi (A1) Black Histor (A3) Black Histor (A3) Coast Praife Reduced Matrix (F3) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Reduce (S5) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Reduce (S6) Sandy Reduce (S6) Sandy Reduce (S7) Sandy Re | Depth (inches) | Matrix Color (moist) | % | Redox Color (moist) | <u>x Features</u> % Type | e ¹ Loc ² | Texture | Remarks |
|--|--|--|----------------|---------------------------------------|----------------|------------------------|--|---------------------------------|------------------------|-----------------------------|
| ype: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Accation: PL=Pore Lining, M=Matrix, MS=Masked Sand Grains. | // Pee: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Cocation: PL=Pore Lining, M=Matrix, Indicators: Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils Indicators for Problematic Hydric Soils Indicators for Problematic Hydric Soil Present? Indicators for Problematic Hydric Soil | // Location: PL=Pore Lining, M=Matrix. dric Soil Indicators: Histosol (A1) Polyvalue Below Surface (\$8) (LRR R, Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Thin Dark Surface (\$9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Pet or Peat (\$3) (LRR K, L, R) Dark Surface (\$7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Sandy Mucky Mineral (\$1) Sandy Mucky Mineral (\$1) Sandy Gleyed Matrix (\$4) Sandy Gleyed Matrix (\$4) Redox Dark Surface (\$7) Redox Dark Surface (\$7) Polyvalue Below Surface (\$9) (LRR K, L) Ton-Manganese Masses (\$12) (LRR K, L) Polyvalue Below Surface (\$9) (LRR K, L) Ton-Manganese Masses (\$12) (LRR K, L) Mesic Spodic (TA6) (MLRA 1434, 145, 149) Assic Spodic (TA6) (MLRA 1444, 145, 149) Belox Dark Surface (\$7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 1444, 145, 149) Coast Prairie Redox (A16) Dark Surface (\$7) (LRR R, MLRA 149B) Dark Surface (\$7) (LRR R, MLRA 149B) Hydric Soil Present? Yes No/ | | · · · · · · · · · · · · · · · · · · · | | Color (IIIOISI) | | LUC_ | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: | Indicators for Problematic Hydric Soils³: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | J- <u>24</u> | 10YR 3/I | _100_ | | | | SL | No redox |
| Indicators for Problematic Hydric Soils 3: Histosol (A1) | Indicators for Problematic Hydric Soils 3: Histosol (A1) | dric Soil Indicators: Histosol (A1) | | | | | | | | |
| Indicators for Problematic Hydric Soils 3: Histosol (A1) | dric Soil Indicators: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Below Dark Surface (A12) Sandy Redox (A12) Sandy Redox (A13) Sandy Redox (A14) Sandy Gleyed Matrix (S4) Sandy Redox (A15) Sandy Redox (A15) Sandy Redox (A15) Sandy Redox (A15) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Alexandra Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Alexandra Mucky Mineral (S1) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Alexandra Mucky Mineral (S1) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Alexandra Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149 Mesic Spodic (TA6) (MLRA 144A, 145, | | | | | | | | |
| Indicators for Problematic Hydric Soils 3: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thic Dark Surface (F3) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No/ Mey Minch Sill Present? Yes No/ Mey Minch Sill Present? Yes No/ Mey Micha Sill Present? Yes No/ | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Matrix (S6) Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Hydric Soil Present? Yes No/ | | | | | | | | |
| Indicators for Problematic Hydric Soils 3: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thic Dark Surface (F3) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No/ Mey Minch Sill Present? Yes No/ Mey Minch Sill Present? Yes No/ Mey Micha Sill Present? Yes No/ | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Matrix (S6) Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (S7) Hydric Soil Present? Yes No/ | | - | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 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) Som 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149, Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. betrictive Layer (if observed): Type: | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | - | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: | Indicators for Problematic Hydric Soils³: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | - |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: | Indicators for Problematic Hydric Soils³: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 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) Som 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149, Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. betrictive Layer (if observed): Type: | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
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| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: | Indicators for Problematic Hydric Soils³: Histosol (A1) | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 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) Som 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149, Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. betrictive Layer (if observed): Type: | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 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) Som 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149, Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. betrictive Layer (if observed): Type: | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144, Sandy Redox (S5) Stripped Matrix (S6) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144, Sandy Redox (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 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) Som 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149, Sandy Redox (S5) Stripped Matrix (S6) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. betrictive Layer (if observed): Type: | dric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thin Dark Surface (F1) (LRR K, L) Depleted Matrix (F2) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Stripped Matrix (S6) Dark Surface (S7) Char R, MLRA 149B) MLRA 149B) Stratified Layers (A5) Depleted Depleted Matrix (F2) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) (MLRA 144A, 145, 1496) Mesic Spodic (TA6) Thin Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | "no: C=C | oncontration D-Dan | lotion DM- | - Poducod Matrix MS | —————————————————————————————————————— | Croins | ² l continu | o: DI -Doro Liping M-Matrix |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144 A, 145, 145, 145, 145, 145, 145, 145, 145 | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, I) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149 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) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: | Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 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) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1494 1494 1494 1494 1495) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1494 1495 1494 1495 1494 1495 1494 1495 1494 1495 1494 1495 1494 1495 1494 1495 1495 | | | iletion, Rivi- | -Reduced Matrix, MS | -iviaskeu Sariu | Grains. | | |
| Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Stratified Layers (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (F7) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (F8) Depleted Dark Surface (F8) Stripped Matrix (S6) Dark Surface (S7) Depleted Dark Surface (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) Depleted Dark Surface (TF12) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) Depleted Dark Surface (TF12) Depleted Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Matrix (S6) Depleted Matrix (S6) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 145) Depleted Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (| Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, I) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _✓ | Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Wes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? Yes No Hydric Soil Present? | | | | Polyvalue Below | v Surface (S8) (I | LRR R, | | • |
| Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 14 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145 | Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) | _ Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149 | | · · | | - | | , | | |
| Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144 | Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, E) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 145, Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149, Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No ✓ | Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149 | | | | | | | | |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144 | Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Redox Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149 | | | | | | R K, L) | | |
| Thick Dark Surface (A12) | Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, I, I, I) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 145, 149) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No ✓ | Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1498 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Type: Depth (inches): Hydric Soil Present? Yes No / | | | e (A11) | | | | | |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145 | Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Depth (inches): Hydric Soil Present? Yes No | Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1496 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Depth (inches): Hydric Soil Present? Yes No ✓ | | | 0 (/ 11 1 / | | | | | |
| Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): | Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No ✓ | Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Othe | | | | | | | | |
| Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) | Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No/ | Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) | | | | Redox Depressi | ons (F8) | | | |
| Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Hydric Soil Present? Yes No< | Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No/ | Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No✓ | | | | | | | | |
| ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No< | dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No✓ | dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No✓ | | | VILRA 149E | 3) | | | | |
| Depth (inches): Hydric Soil Present? Yes No < | Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No✓ | strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | , | | | | (2-pian m i comanc) |
| Type: Depth (inches): | Type: Depth (inches): | Type: Depth (inches): | | | | tland hydrology must | t be present, un | less disturbed | or problemati | C. |
| Depth (inches): No | Depth (inches): No/ | Depth (inches): No/ | estrictive | Layer (if observed): | : | | | | | |
| | Far (man -) | Far (man-) | Type: | | | | | | | |
| | marks: | marks: | Depth (in | ches): | | | | | Hydric Soi | I Present? Yes No✓ |
| emarks: | | | emarks: | | | | | | | |
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| Project/Site: Eagle 152 Acres City/C | County: Waukesha County Sampling Date: 2024-07-29 |
|---|---|
| | State: Wisconsin Sampling Point: P8 |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section | |
| Landform (hillslope, terrace, etc.): Depression Local rel | |
| Subregion (LRR or MLRA): LRR L, MLRA 95 Lat: 42.868265 | |
| | |
| Soil Map Unit Name: Warsaw sandy loam, 2 to 6 percent s | · |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | |
| Are Vegetation, Soil, or Hydrology significantly distur | rbed? Are "Normal Circumstances" present? Yes No✓ |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing same | apling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area |
| Hydric Soil Present? Yes No ✓ | within a Wetland? Yes No/ |
| Wetland Hydrology Present? Yes No ✓ | If yes, optional Wetland Site ID: |
| Remarks: (Explain alternative procedures here or in a separate report.) | |
| APT indicates climatic conditions are in the wetter | than normal range. Agricultural field, not NC. |
| | 3 4 4 4 7 |
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| 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 Leave | |
| High Water Table (A2) Aquatic Fauna (B13) | |
| Saturation (A3) Marl Deposits (B15) | Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Od | |
| Sediment Deposits (B2) Oxidized Rhizosphere | |
| Drift Deposits (B3) Presence of Reduced | ` , |
| Algal Mat or Crust (B4) Recent Iron Reduction | |
| Iron Deposits (B5) Thin Muck Surface (C | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer | |
| Sparsely Vegetated Concave Surface (B8) Field Observations: | FAC-Neutral Test (D5) |
| | |
| Surface Water Present? Yes No _✓ Depth (inches): Water Table Present? Yes No _✓ Depth (inches): | |
| Saturation Present? Yes No V Depth (inches): | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| OSA completed. Not a consistent signature area | |
| Remarks: | |
| Minor crop stress observed in portions of this depr | ession |
| Willion Grop stress observed in portions of this depr | C331011. |
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| Dominance Test worksheet: |
|---|
| That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0.00 x 1 = 0.00 |
| Species Across All Strata: |
| Species Across All Strata: |
| Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B) Prevalence Index worksheet: |
| That Are OBL, FACW, or FAC: 0.00 (A/B) Prevalence Index worksheet: |
| Prevalence Index worksheet: Total % Cover of: |
| Total % Cover of: Multiply by: OBL species 0.00 x 1 = 0.00 |
| OBL species <u>0.00</u> x 1 = <u>0.00</u> |
| |
| FALW ENGREE 11 11 V 7 11 11 11 |
| EAC appoins 0.00 x 2 = 0.00 |
| FACU species 5.00 x 4 = 20.00 |
| UPL species 0.00 x 5 = 0.00 |
| Column Totals: 5.00 (A) 20.00 (B) |
| |
| Prevalence Index = B/A = 4.0 |
| Hydrophytic Vegetation Indicators: |
| 1 - Rapid Test for Hydrophytic Vegetation |
| 2 - Dominance Test is >50% |
| 3 - Prevalence Index is ≤3.0¹ |
| 4 - Morphological Adaptations ¹ (Provide supporting |
| data in Remarks or on a separate sheet) |
| Problematic Hydrophytic Vegetation¹ (Explain) |
| ¹ Indicators of hydric soil and wetland hydrology must |
| be present, unless disturbed or problematic. |
| Definitions of Vegetation Strata: |
| |
| Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| |
| Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| |
| Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| |
| Woody vines – All woody vines greater than 3.28 ft in height. |
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| Hydrophytic |
| Vegetation |
| 1 |
| Present? Yes No _✓ |
| |

SOIL

| | | to the dept | th needed to document the indicator or confirm | the absence | of indicators.) | |
|---------------------------|--|----------------|---|---|--|--|
| Depth (inches) | Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | Texture | Remarks | |
| 0-18 | 10YR 3/2 | 100 | | SL | No redox | |
| 18-24 | 10YR 3/1 | 100 | | LS | No redox | |
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| ¹Type: C=C | oncentration D=Den | letion RM= | Reduced Matrix, MS=Masked Sand Grains. | ² l ocation | n: PL=Pore Lining, M=Matrix. | |
| Hydric Soil | | ietion, rtivi– | reduced Matrix, MO-Masked Garid Grains. | | s for Problematic Hydric Soils ³ : | |
| Histosol | | | Polyvalue Below Surface (S8) (LRR R, | | Muck (A10) (LRR K, L, MLRA 149B) | |
| | pipedon (A2) istic (A3) | | MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) | | Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) | |
| Hydroge | en Sulfide (A4) | | Loamy Mucky Mineral (F1) (LRR K, L) | Dark S | Surface (S7) (LRR K, L) | |
| | d Layers (A5) d Below Dark Surfac | o (A11) | Loamy Gleyed Matrix (F2) Depleted Matrix (F3) | | alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) | |
| | d Below Dark Surfac ark Surface (A12) | e (ATT) | Depleted Matrix (F3) Redox Dark Surface (F6) | | Manganese Masses (F12) (LRR K, L, R) | |
| | Mucky Mineral (S1) | • | Depleted Dark Surface (F7) | | nont Floodplain Soils (F19) (MLRA 149B) | |
| | Gleyed Matrix (S4) | | Redox Depressions (F8) | Mesic Spodic (TA6) (MLRA 144A, 145, 149 | | |
| | Redox (S5) I Matrix (S6) | | | | Parent Material (F21) Shallow Dark Surface (TF12) | |
| | rface (S7) (LRR R, N | ILRA 149B |) | | (Explain in Remarks) | |
| ³ Indicators o | f hydrophytic vegeta | tion and we | tland hydrology must be present, unless disturbed o | or problemati | c. | |
| Restrictive | Layer (if observed): | | | | | |
| Type: | | | | Uradaia Cai | I Dungant 2 Vac No (| |
| Depth (in | ches): | | | Hyaric Soi | I Present? Yes No✓ | |
| Remarks: | | | | | | |
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| Project/Site: Eagle 152 Acres City | //County: <u>Waukesha County</u> Sampling Date: <u>2024-07-29</u> | | | | | |
|---|---|--|--|--|--|--|
| | State: Wisconsin Sampling Point: P9 | | | | | |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section, Township, Range: sec 27 T005N R017E | | | | | | |
| · | relief (concave, convex, none): Concave Slope (%): 0-2 | | | | | |
| | | | | | | |
| | Long: <u>-88.470892</u> Datum: <u>WGS84</u> | | | | | |
| Soil Map Unit Name: Lorenzo loam, 6 to 12 percent slope | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | Yes No✓ (If no, explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrology significantly dist | urbed? Are "Normal Circumstances" present? Yes No✓ | | | | | |
| Are Vegetation, Soil, or Hydrology naturally problem | matic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sa | impling point locations, transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes No _✓ | within a Wetland? Yes No | | | | | |
| Wetland Hydrology Present? Yes No✓ | If yes, optional Wetland Site ID: | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) | in yee, optional reducing energy | | | | | |
| APT indicates climatic conditions are in the wette | r than normal range. Agricultural field, not NC | | | | | |
| The indicates chimate conditions are in the wette | T than normal range. Agricultaral field, flot 140. | | | | | |
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| LIVEROL COV | | | | | | |
| 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 Leav | | | | | | |
| High Water Table (A2) Aquatic Fauna (B1; | | | | | | |
| Saturation (A3) Marl Deposits (B15 | | | | | | |
| Water Marks (B1) Hydrogen Sulfide C | | | | | | |
| | | | | | | |
| Drift Deposits (B3) Presence of Reduction Algal Mat or Crust (B4) Recent Iron Reduction | | | | | | |
| Algal Mat of Crust (B4) Recent from Reduct Iron Deposits (B5) Thin Muck Surface | | | | | | |
| Indit Deposits (B3) Thirt Muck Surface Inundation Visible on Aerial Imagery (B7) Other (Explain in R | | | | | | |
| Sparsely Vegetated Concave Surface (B8) | emarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) | | | | | |
| Field Observations: | FAC-Neutral Test (D5) | | | | | |
| Surface Water Present? Yes No _ ✓ _ Depth (inches): | | | | | | |
| 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, p | revious inspections), if available: | | | | | |
| OSA completed. Not a consistent signature area. | | | | | | |
| Remarks: | | | | | | |
| | turation | | | | | |
| No wetland hydrology indicators observed, no sa | luration. | | | | | |
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| | Species? Status | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant 0 (B) Percent of Dominant Species 0 (A/B) Prevalence Index worksheet: (A/B) Total % Cover of: Multiply by: OBL species 0.00 x 1 = 0.00 FACW species 0.00 x 2 = 0.00 FAC species 0.00 x 3 = 0.00 FACU species 0.00 x 4 = 0.00 UPL species 0.00 x 5 = 0.00 |
|------------|------------------|--|
| | = Total Cover | That Are OBL, FACW, or FAC: |
| | = Total Cover | Species Across All Strata: 0 (B) Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Multiply by: OBL species 0.00 x 1 = 0.00 FACW species 0.00 x 2 = 0.00 FAC species 0.00 x 3 = 0.00 FACU species 0.00 x 4 = 0.00 UPL species 0.00 x 5 = 0.00 |
| | = Total Cover | That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: |
| | = Total Cover | Total % Cover of: Multiply by: OBL species 0.00 x 1 = 0.00 FACW species 0.00 x 2 = 0.00 FAC species 0.00 x 3 = 0.00 FACU species 0.00 x 4 = 0.00 UPL species 0.00 x 5 = 0.00 |
| 0 | = Total Cover | OBL species 0.00 x1 = 0.00 FACW species 0.00 x2 = 0.00 FAC species 0.00 x3 = 0.00 FACU species 0.00 x4 = 0.00 UPL species 0.00 x5 = 0.00 |
| | | FACW species 0.00 x 2 = 0.00 FAC species 0.00 x 3 = 0.00 FACU species 0.00 x 4 = 0.00 UPL species 0.00 x 5 = 0.00 |
| | | FAC species $0.00 \times 3 = 0.00$ FACU species $0.00 \times 4 = 0.00$ UPL species $0.00 \times 5 = 0.00$ |
| | | FACU species 0.00 x 4 = 0.00 UPL species 0.00 x 5 = 0.00 |
| | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| | | |
| | | 1 |
| | | Column Totals: <u>0.00</u> (A) <u>0.00</u> (B) |
| | | Prevalence Index = B/A = |
| | | Hydrophytic Vegetation Indicators: |
| | | 1 - Rapid Test for Hydrophytic Vegetation |
| _ | | 2 - Dominance Test is >50% |
| | = Total Cover | 3 - Prevalence Index is ≤3.0 ¹ |
| | | 4 - 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. |
| | | Definitions of Vegetation Strata: |
| | | |
| | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| | | Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. |
| | | and greater than or equal to 3.20 it (1 iii) tail. |
| | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| | | |
| | | Woody vines – All woody vines greater than 3.28 ft in height. |
| 0 | = Total Cover | |
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| | | Hydrophytic |
| | | Vegetation |
| _ | | Present? Yes No✓ |
| | = Total Cover | |
| sheet.) | | |
| op about | 2ft tall, no wee | eds present. Assume non-hydrophytic |
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| ., a.io oo | , and professi | ional jaaginona |
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| | | e sheet.) |

SOIL Sampling Point: P9

| | Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | _ Texture | Remarks |
|--|--|-------------|--|--|---|
| 0-14 | 10YR 4/2 | 100 | | _ <u>rexture</u> SL | |
| | | | | | No redox |
| 14-24 | 10YR 3/1 | 100 | | <u>SL</u> | No redox |
| | | | | | |
| | | | - Dadward Makiy MC-Marked Cond Corin | 21 | Di - Dana Linian MaMatria |
| | oncentration, D=Dep Indicators: | letion, RM= | Reduced Matrix, MS=Masked Sand Grains. | | n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped | pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR R, M | | MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149 Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) | DB) 5 cm Dark : Polyv Thin I Iron-N Piedn Mesic Red F Very : | t Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B Spodic (TA6) (MLRA 144A, 145, 149B Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) |
| ndicators of | f hydrophytic vegeta | tion and we | tland hydrology must be present, unless disturb | ed or problemati | ic. |
| estrictive I | Layer (if observed): | ! | | | |
| Type: | | | <u></u> | | |
| Depth (inc | ches): | | | Hydric Soi | il Present? Yes No✓ |
| | | | | | |

| Project/Site: Eagle 152 Acres | City/County: _ | Vaukesha County sa | ampling Date: <u>2024-07-29</u> | | | |
|---|--|---|---------------------------------|--|--|--|
| Applicant/Owner: Kaerek Homes | | State: Wisconsin | | | | |
| Investigator(s): <u>Eric C. Parker, SPWS, Mikayla Datka</u> Section, Township, Range: <u>sec 27 T005N R017E</u> | | | | | | |
| Landform (hillslope, terrace, etc.): Depression | • | | | | | |
| Subregion (LRR or MLRA): LRR L, MLRA 95 La | | | | | | |
| Soil Map Unit Name: Warsaw loam, 0 to 2 | | | | | | |
| Are climatic / hydrologic conditions on the site typical | • | | | | | |
| Are Vegetation ✓, Soil, or Hydrology | | | | | | |
| Are Vegetation, Soil, or Hydrology | | | | | | |
| | | | | | | |
| SUMMARY OF FINDINGS – Attach site | map showing sampling | oint locations, transects, ir | mportant features, etc. | | | |
| Hydrophytic Vegetation Present? Yes | | Sampled Area | | | | |
| | NO <u>v</u> | a Wetland? Yes | No <u>√</u> | | | |
| | | ptional Wetland Site ID: | | | | |
| Remarks: (Explain alternative procedures here or in | | | | | | |
| APT indicates climatic conditions a | re in the wetter than r | ormal range. Agricultura | l field, not NC. | | | |
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| HYDROLOGY | | | ()) | | | |
| Wetland Hydrology Indicators: | | · · · · · · · · · · · · · · · · · · · | s (minimum of two required) | | | |
| Primary Indicators (minimum of one is required; che | • • • • | Surface Soil Cra | | | | |
| | _ Water-Stained Leaves (B9) _ Aquatic Fauna (B13) | Drainage Patter | | | | |
| | _ Marl Deposits (B15) | Moss Trim Lines (B16) Dry-Season Water Table (C2) | | | | |
| | _ Hydrogen Sulfide Odor (C1) | Dry-Season Wa Crayfish Burrow | | | | |
| | _ Oxidized Rhizospheres on Liv | | le on Aerial Imagery (C9) | | | |
| | Presence of Reduced Iron (C4 | - | | | | |
| ` ` ` ′ | Recent Iron Reduction in Tilled | | | | | |
| | _ Thin Muck Surface (C7) | | | | | |
| | _ Other (Explain in Remarks) | | | | | |
| Sparsely Vegetated Concave Surface (B8) | | n Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) | | | | |
| Field Observations: | | | () | | | |
| Surface Water Present? Yes No✓ | Depth (inches): | | | | | |
| Water Table Present? Yes No✓ | Depth (inches): | _ | | | | |
| | Depth (inches): | Wetland Hydrology Present? | Yes No <u>√</u> | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring | well, aerial photos, previous ins | l pections), if available: | | | | |
| OSA completed. Not a consistent s | | , | | | | |
| Remarks: | ngnataro aroar | | | | | |
| Crop stress observed in portions of | f this depression | | | | | |
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| Tree Stratum (Plot size:30) | Absolute | Dominant Indicator Species? Status | Dominance Test worksheet: |
|---|----------|------------------------------------|--|
| 1 | | | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 3 | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 5 | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B |
| 6. | | | Prevalence Index worksheet: |
| 7 | | | Total % Cover of: Multiply by: |
| | | = Total Cover | OBL species x 1 = |
| Sapling/Shrub Stratum (Plot size:15) | | rotal Gover | FACW species 0.00 x 2 = 0.00 |
| | | | FAC species 0.00 x3 = 0.00 |
| 1 | | | FACU species 0.00 x 4 = 0.00 |
| 2. | | | UPL species 0.00 x 5 = 0.00 |
| 3 | | | Column Totals: 0.00 (A) 0.00 (B) |
| 4 | _ | | - |
| 5 | | | Prevalence Index = B/A = |
| 3 | | | Hydrophytic Vegetation Indicators: |
| | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | 2 - Dominance Test is >50% |
| _ | | = Total Cover | 3 - Prevalence Index is ≤3.0¹ |
| Herb Stratum (Plot size: 5 | | | 4 - Morphological Adaptations ¹ (Provide supportin |
| 1 | | | data in Remarks or on a separate sheet) |
| 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 diamete |
| 7 | | | at breast height (DBH), regardless of height. |
| 8 | <u> </u> | · | Sapling/shrub – Woody plants less than 3 in. DBH |
| 9 | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 10 | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 11 | | | - Woody vines All woody vines greater than 2.29 ft in |
| 12 | _ | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | 0 | = Total Cover | |
| Woody Vine Stratum (Plot size: 30) | | | |
| 1 | | | - |
| 2 | | | _ |
| 3. | | | _ Hydrophytic |
| 4 | | | Vegetation |
| *- | | | Present? Yes No/ |
| Pamarka: (Inaluda photo numbero baro er en a | | = Total Cover | |
| Remarks: (Include photo numbers here or on a separate | , | Off toll | ada maaant Assuussa saas ta tuutu e |
| • • | • | | eds present. Assume non-hydrophytic |
| egetation based on other parameters | , the OS | A, and protess | sional judgment. |
| | | | |

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|----|---|---|--|
| c. | 7 | ı | |
| J | v | ı | |

| Profile Desc | ription: (Describe | to the dept | h needed to docun | nent the ir | ndicator | or confirm | the absence | of indicato | ors.) | | |
|-------------------------|---|--------------|---------------------------------|-------------|--------------------|--------------------|--|---------------|-----------------------|-------------|--|
| Depth | Matrix | | | k Features | i | | _ | | | | |
| (inches) | Color (moist) | <u></u> % | Color (moist) | <u></u> % | Type ¹ | Loc ² | Texture | | Remarks | | |
| 0-24 | <u>10YR 3/1</u> | <u> 100</u> | | | | | SL | No redo | OX . | _ | |
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| | | | | | | | | | | _ | |
| ¹ Type: C=Co | oncentration, D=Depl | letion, RM= | Reduced Matrix, MS | =Masked | Sand Gra | ains. | ² Location | : PL=Pore | Lining, M=Matr | ix. | |
| Hydric Soil | Indicators: | | | | | | Indicators | for Probler | matic Hydric S | ioils³: | |
| Histosol | (A1) | - | Polyvalue Belov | v Surface | (S8) (LR F | RR, | 2 cm M | Muck (A10) (| (LRR K, L, ML | RA 149B) | |
| | oipedon (A2) | | MLRA 149B) | | | | | | ox (A16) (LRR | | |
| Black Hi | | - | Thin Dark Surfa | | | | | | or Peat (S3) (L | RR K, L, R) | |
| | en Sulfide (A4) d Layers (A5) | - | Loamy Mucky N Loamy Gleyed I | | | , L) | Dark Surface (S7) (LRR K, L) | | | | |
| | d Below Dark Surface | - - (Δ11) | Depleted Matrix | | 1 | | Polyvalue Below Surface (S8) (LRR K, IThin Dark Surface (S9) (LRR K, L) | | | | |
| | ark Surface (A12) | - (ATT) | Redox Dark Sur | | | | Iron-Manganese Masses (F12) (LRR K, | | | | |
| | lucky Mineral (S1) | - | Depleted Dark S | | 7) | | Piedmont Floodplain Soils (F19) (MLRA 14 | | | | |
| - | Gleyed Matrix (S4) | - | Redox Depress | | , | | Mesic Spodic (TA6) (MLRA 144A, 145, 14 | | | | |
| Sandy R | Redox (S5) | | | | | | Red Parent Material (F21) | | | | |
| | Matrix (S6) | | | | | | - | | Surface (TF12 | 2) | |
| Dark Su | rface (S7) (LRR R, N | ILRA 149B |) | | | | Other | (Explain in F | Remarks) | | |
| 31 | £ | | l | | | all a familia a al | | | | | |
| | f hydrophytic vegetat Layer (if observed): | | land nydrology mus | t be prese | nt, uniess | aisturbea | or problemation | C. | | | |
| | Layer (II Observed). | | | | | | | | | | |
| Type: | | | <u> </u> | | | | | | | | |
| Depth (inc | ches): | | | | | | Hyaric Soil | Present? | Yes | No <u> </u> | |
| Remarks: | | | | | | | | | | | |
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| Project/Site: <u>Eagle 152 Acres</u> City/C | County: Waukesha County Sampling Date: 2024-07-29 | | | | | |
|--|---|--|--|--|--|--|
| | State: Wisconsin Sampling Point: P11 | | | | | |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Datka Section, Township, Range: sec 27 T005N R017E | | | | | | |
| | Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 0-2 | | | | | |
| | | | | | | |
| Subregion (LRR or MLRA): LRR L, MLRA 95 Lat: 42.868084 | | | | | | |
| Soil Map Unit Name: Warsaw loam, 0 to 2 percent slopes | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | es No ✓ (If no, explain in Remarks.) | | | | | |
| Are Vegetation, Soil, or Hydrology significantly distur | bed? Are "Normal Circumstances" present? Yes No✓ | | | | | |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sam | opling point locations, transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes No ✓ | within a Wetland? Yes No✓ | | | | | |
| Wetland Hydrology Present? Yes No ✓ | If yes, optional Wetland Site ID: | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) | , 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 | | | | | |
| APT indicates climatic conditions are in the wetter | than normal range. Agricultural field, not NC. | | | | | |
| The final control of the first world | than normal range. Agricultaral nota, not ive. | | | | | |
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| HADBOLOGA | | | | | | |
| 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) s (B9) Drainage Patterns (B10) | | | | | |
| Surface Water (A1) Water-Stained Leave High Water Table (A2) Aquatic Fauna (B13) | | | | | | |
| Saturation (A3) Marl Deposits (B15) | | | | | | |
| Water Marks (B1) Hydrogen Sulfide Od | | | | | | |
| Sediment Deposits (B2) Oxidized Rhizosphere | | | | | | |
| Drift Deposits (B3) Presence of Reduced | | | | | | |
| Algal Mat or Crust (B4) Recent Iron Reductio | | | | | | |
| Iron Deposits (B5) Thin Muck Surface (C | | | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer | | | | | | |
| 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 No _ ✓ Depth (inches): | Wetland Hydrology Present? Yes No✓ | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections) if available: | | | | | |
| | | | | | | |
| OSA completed. Not a consistent signature area. I | ntermittent waterway per NHD data layer. | | | | | |
| Remarks: | | | | | | |
| No wetland hydrology indicators observed, no satu | ration. No waterway observed. | | | | | |
| 3 , | , | | | | | |
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| <u>Γree Stratum</u> | (Plot size: | 30 |) | Absolute % Cover | Dominant Species? | | Dominance Test worksheet: | | |
|---------------------|----------------------|------------|---------------------------------------|------------------|-------------------|----------|--|-----------------|---------|
| 1 | | | · · · · · · · · · · · · · · · · · · · | | | | Number of Dominant Species That Are OBL, FACW, or FAC: | 0 | (A) |
| | | | | | | | Total Number of Dominant Species Across All Strata: | 0 | (B) |
| | | | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | | (A/B |
| | | | | | | | Prevalence Index worksheet: | | |
| | | | | | | | Total % Cover of: | Multiply by: | |
| | | | | | = Total Cov | | OBL species 0.00 x 1 | | _ |
| Sanling/Shruh | Stratum (Plo | t size. | 15) | | | | FACW species 0.00 x 2 | <u>-</u> | _ |
| · - | • | | | | | | FAC species 0.00 x 3 | | _ |
| | | | | | | | FACU species 0.00 x 4 | | _ |
| <u> </u> | | | | | | | UPL species 0.00 x 5 | | |
| | | | | | | | Column Totals: 0.00 (A) | | (B |
| | | | | | | | Prevalence Index = B/A = | | |
| | | | | | | | Hydrophytic Vegetation Indicat | ors: | |
| | | | | | | | 1 - Rapid Test for Hydrophytic | | |
| · | | | | | | | 2 - Dominance Test is >50% | o vogotation | |
| | | _ | | | = Total Cov | er | 3 - Prevalence Index is ≤3.0 ¹ | | |
| Herb Stratum | (Plot size: | 5 |) | | | | 4 - Morphological Adaptations | | pportin |
| l | | | | | | | data in Remarks or on a s | eparate sheet |) |
| 2 | | | | | | | Problematic Hydrophytic Veg | etation¹ (Expla | ain) |
| 3 | | | | | | | 1 | | |
| | | | | | | | ¹ Indicators of hydric soil and wetla be present, unless disturbed or pr | | must |
| | | | | | | | Definitions of Vegetation Strata | 1: | |
| | | | | | | | Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardless | | iamete |
| | | | | | | | Sapling/shrub – Woody plants le | • |)BH |
|) | | | | | | | and greater than or equal to 3.28 | | |
| 10 | | | | | | | Herb – All herbaceous (non-wood of size, and woody plants less that | | ardless |
| | | | | | | | | | 00 (1) |
| 12 | | | | _ | | | Woody vines – All woody vines gheight. | reater than 3.2 | 28 π in |
| | | | | 0 | = Total Cov | er | | | |
| Noody Vine St | <u>ratum</u> (Plot s | ize: | 30) | | | | | | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3. | | | | | | | Hydrophytic | | |
| | | | | | | | Vegetation | | |
| | | | | | | | Present? Yes | No <u>√</u> | |
| Pomarke: (Inc | udo photo pui | mhore hore | or on a sonarato | choot) | = Total Cov | CI | | | |
| , | · | | or on a separate | , | 2ft tall i | no wee | ds present. Assume nor | ı-hvdroph | vtic |
| • | | • | • | • | | | onal judgment. |) J | , - |
| -93.0001 | .5.5500 01 | | F 41. 41.13 to 10 | , | ., p | . 5.5501 | j | | |

| | • | to the dep | th needed to document the indicator or confirm | the absence | e of indicators.) | |
|----------------------|---|-------------|--|--|---|--|
| Depth (inches) | Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | Texture | Remarks | |
| 0-12 | 10YR 3/2 | 100 | | SL | 15% stones | |
| 12-16 | 10YR 5/4 | 100 | | LS | 20% rocks | |
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| - | | | | | | |
| | | letion, RM= | Reduced Matrix, MS=Masked Sand Grains. | | n: PL=Pore Lining, M=Matrix. | |
| Hydric Soil Histosol | | | Polyvalue Below Surface (S8) (LRR R, | | s for Problematic Hydric Soils ³ : Muck (A10) (LRR K, L, MLRA 149B) | |
| | pipedon (A2) | | MLRA 149B) | | Prairie Redox (A16) (LRR K, L, R) | |
| | istic (A3) | | Thin Dark Surface (S9) (LRR R, MLRA 149B) | | Mucky Peat or Peat (S3) (LRR K, L, R) | |
| | en Sulfide (A4) d Layers (A5) | | Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) | | Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L) | |
| Deplete | d Below Dark Surfac | e (A11) | Depleted Matrix (F3) | Thin [| Dark Surface (S9) (LRR K, L) | |
| | ark Surface (A12) | | Redox Dark Surface (F6)Depleted Dark Surface (F7) | | Manganese Masses (F12) (LRR K, L, R) | |
| - | Mucky Mineral (S1) Gleyed Matrix (S4) | | Redox Depressions (F8) | Piedmont Floodplain Soils (F19) (MLRA 149 Mesic Spodic (TA6) (MLRA 144A, 145, 149B | | |
| Sandy F | Redox (S5) | | | Red F | Parent Material (F21) | |
| | l Matrix (S6) rface (S7) (LRR R, N | AI DA 140E | | - | Shallow Dark Surface (TF12) (Explain in Remarks) | |
| Dark Su | mace (57) (LKK K, I | ILKA 1450 | " | Other | (Explain in Remarks) | |
| | | | tland hydrology must be present, unless disturbed o | or problemati | с. | |
| | Layer (if observed): | | | | | |
| Type: Re | ches): <u>16</u> | | | Hydric Soi | I Present? Yes No✓ | |
| Remarks: | cnes). <u>10</u> | | | nyuno co. | | |
| | fusal at 16in. | | | | | |
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| Project/Site: <u>Eagle 152 Acres</u> City | //County: <u>Waukesha County</u> Sampling Date: <u>2024-07-29</u> | | | | | |
|---|---|--|--|--|--|--|
| • | State: Wisconsin Sampling Point: P12 | | | | | |
| Investigator(s): <u>Eric C. Parker, SPWS, Mikayla Datka</u> Section, Township, Range: <u>sec 27 T005N R017E</u> | | | | | | |
| • | relief (concave, convex, none): Concave Slope (%): 3-7 | | | | | |
| | Long: <u>-88.467281</u> Datum: <u>WGS84</u> | | | | | |
| Soil Map Unit Name: Warsaw loam, 0 to 2 percent slopes | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | | | | | | |
| | turbed? Are "Normal Circumstances" present? Yes No/ | | | | | |
| | | | | | | |
| Are Vegetation, Soil, or Hydrology naturally proble | | | | | | |
| SUMMARY OF FINDINGS – Attach site map showing sa | ampling point locations, transects, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes No _✓ | within a Wetland? Yes No | | | | | |
| Wetland Hydrology Present? Yes No | If yes, optional Wetland Site ID: | | | | | |
| Remarks: (Explain alternative procedures here or in a separate report.) | | | | | | |
| APT indicates climatic conditions are in the wette | r than normal range. Agricultural field, not NC. | | | | | |
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| 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 Lea | | | | | | |
| High Water Table (A2) Aquatic Fauna (B1: | | | | | | |
| Saturation (A3) Marl Deposits (B15 | | | | | | |
| Water Marks (B1) Hydrogen Sulfide (| | | | | | |
| Sediment Deposits (B2) Oxidized Rhizosph | eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Drift Deposits (B3) Presence of Reduc | ced Iron (C4) Stunted or Stressed Plants (D1) | | | | | |
| Algal Mat or Crust (B4) Recent Iron Reduc | tion in Tilled Soils (C6) Geomorphic Position (D2) | | | | | |
| Iron Deposits (B5) Thin Muck Surface | (C7) Shallow Aquitard (D3) | | | | | |
| Inundation Visible on Aerial Imagery (B7) Other (Explain in R | | | | | | |
| 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 No _ ✓ Depth (inches): | Wetland Hydrology Present? Yes No✓ | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | l previous inspections), if available: | | | | | |
| OSA completed. Not a consistent signature area. | NHD data layer shows intermittent waterway | | | | | |
| | - This data layer eneme intermittent waterway. | | | | | |
| Remarks: | | | | | | |
| Crop stress observed in portions of this depression | on. No waterway observed. | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| 5 00 4 (5) 4 20 | | Dominant Indicator | Dominance Test worksheet: |
|---|-----------------|--------------------|--|
| <u>Free Stratum</u> (Plot size: <u>30</u>) I | | Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |
| 2 3 | | | Total Number of Dominant Species Across All Strata:0 (B) |
| i. 5. | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E |
| 3. | | | Prevalence Index worksheet: |
| 7 | | | Total % Cover of: Multiply by: |
| | | = Total Cover | OBL species 0.00 x 1 = 0.00 |
| Sapling/Shrub Stratum (Plot size:) | | | FACW species 0.00 x 2 = 0.00 |
| | | | FAC species 0.00 x 3 = 0.00 |
| • | | | FACU species 0.00 x 4 = 0.00 |
| | | | UPL species 0.00 x 5 = 0.00 |
| | | | Column Totals: 0.00 (A) 0.00 (E |
| i | | | Prevalence Index = B/A = |
| | | | Hydrophytic Vegetation Indicators: |
| | | | 1 - Rapid Test for Hydrophytic Vegetation |
| • | | | 2 - Dominance Test is >50% |
| 5 | | = Total Cover | 3 - Prevalence Index is ≤3.0 ¹ |
| Herb Stratum (Plot size:5 | | | 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| · | | | Problematic Hydrophytic Vegetation (Explain) |
| i. | | | |
| · | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| i | | | Definitions of Vegetation Strata: |
| i | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height. |
| | | | Sapling/shrub – Woody plants less than 3 in. DBH |
| | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 0 1 | | | Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. |
| 2. | | | Woody vines – All woody vines greater than 3.28 ft i |
| | | = Total Cover | height. |
| Noody Vine Stratum (Plot size: 30 | | | |
| | | | |
|). | | | |
| 3 | · | | Hydrophytic |
| l | | | Vegetation Present? Yes No✓_ |
| | 0 | = Total Cover | 100 <u> </u> |
| Remarks: (Include photo numbers here or on a separate s | sheet.) p about | 2ft tall, no wee | ds present. Assume non-hydrophytic onal judgment. |

SOIL Sampling Point: P12

| Depth | ription: (Describe t Matrix | o the depth | | Features | | | of mulcators. |
|---|---|---------------------------|--------------------|---|-----------------------------------|--|--|
| (inches) | Color (moist) | % | Color (moist) | | ype ¹ Loc ² | Texture | Remarks |
| 0-14 | 10YR 3/2 | _100 | | | | _ <u>LS_</u> | 20% stones, no redox |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | oncentration, D=Depl | etion, RM=F | Reduced Matrix, MS | =Masked Sa | nd Grains. | | n: PL=Pore Lining, M=Matrix. |
| Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy R Stripped Dark Sul | (A1) pipedon (A2) stic (A3) on Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) flucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, M | _ _ _ ILRA 149B) | | ce (S9) (LRF lineral (F1) (I Matrix (F2) (F3) face (F6) Surface (F7) ons (F8) | RR, MLRA 149 LRR K, L) | 2 cm l Coast 5 cm l Dark \$ Polyva Thin D Iron-N Piedm Mesic Red P Very \$ Other | for Problematic Hydric Soils ³ : Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) (Explain in Remarks) c. |
| | _ayer (if observed): | | | | | | |
| Type: | ches): | | | | | Hydric Soil | I Present? Yes No✓_ |
| Remarks: | | | | | | , , , , , , | |
| Auger re | fusal at 14 inc | hes due | to stones an | d gravel | y soil. | | |

| Project/Site: Eagle 152 Acres | City/County: Wau | ı kesha Countv s | ampling Date: 2024-07-29 | | |
|--|------------------------------|---------------------------------|---|--|--|
| • | | State: Wisconsin | | | |
| Investigator(s): Eric C. Parker, SPWS, Mikayla Da | | | | | |
| Landform (hillslope, terrace, etc.): Swale | | | | | |
| Subregion (LRR or MLRA): LRR L, MLRA 95 Lat: 42.870 | | | | | |
| | | | | | |
| Soil Map Unit Name: Warsaw loam, 0 to 2 percent | • | | | | |
| Are climatic / hydrologic conditions on the site typical for this time | | | | | |
| Are Vegetation, Soil, or Hydrology signific | cantly disturbed? A | re "Normal Circumstances" pres | sent? Yes No <u></u> | | |
| Are Vegetation, Soil, or Hydrology natura | ally problematic? (If | f needed, explain any answers i | n Remarks.) | | |
| SUMMARY OF FINDINGS - Attach site map show | wing sampling poin | t locations, transects, ir | mportant features, etc. | | |
| Hydrophytic Vegetation Present? Yes No | / Is the Samp | led Area | | | |
| Hydric Soil Present? Yes No | | tland? Yes | No <u>√</u> | | |
| Wetland Hydrology Present? Yes No | | al Wetland Site ID: | | | |
| Remarks: (Explain alternative procedures here or in a separate | e report.) | | | | |
| | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | | s (minimum of two required) | | |
| Primary Indicators (minimum of one is required; check all that a | , | Surface Soil Cra | | | |
| | ained Leaves (B9) | Drainage Patter | | | |
| High Water Table (A2) Aquatic F Saturation (A3) Marl Depo | | | Moss Trim Lines (B16) | | |
| | n Sulfide Odor (C1) | | Dry-Season Water Table (C2) Crayfish Burrows (C8) | | |
| | Rhizospheres on Living Ro | | le on Aerial Imagery (C9) | | |
| | e of Reduced Iron (C4) | Stunted or Stres | | | |
| Algal Mat or Crust (B4) Recent Ire | ron Reduction in Tilled Soil | s (C6) Geomorphic Po | sition (D2) | | |
| , , , , | ck Surface (C7) | Shallow Aquitard (D3) | | | |
| | xplain in Remarks) | Microtopograph | | | |
| Sparsely Vegetated Concave Surface (B8) | | FAC-Neutral Te | st (D5) | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes No ✓ Depth (in | | | | | |
| Water Table Present? Yes No _✓ Depth (ir Saturation Present? Yes No _✓ Depth (ir | | Wetland Hydrology Present? | Vos No / | | |
| (includes capillary fringe) | | | 165 NO | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial | | · | | | |
| OSA completed. Not a consistent signature area. N | HD data layer shows i | intermittent waterway star | ting just south of P13. | | |
| Remarks: | | | | | |
| Minor crop stress observed in portions of the | his swale, potentia | ally due to gravelly so | oil. | | |
| Times drop du des absolves in persone er s | rno ottato, potorni | any due to graveny ec | , | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| I | | | | | |

| Free Stratum (Plot size:) | Absolute % Cover | Dominant Indicator Species? Status | |
|------------------------------------|---------------------|------------------------------------|--|
| | | | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 3 | | | Total Number of Dominant Species Across All Strata: (B) |
| i. 5. | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B |
| S | | | Prevalence Index worksheet: |
| 7 | | | Total % Cover of: Multiply by: |
| | 0 | = Total Cover | OBL species <u>0.00</u> x 1 = <u>0.00</u> |
| Sapling/Shrub Stratum (Plot size:) | | | FACW species <u>0.00</u> x 2 = <u>0.00</u> |
| | | | FAC species 0.00 x 3 = 0.00 |
| | | | FACU species <u>0.00</u> x 4 = <u>0.00</u> |
| | | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| · | | | Column Totals: <u>0.00</u> (A) <u>0.00</u> (B) |
| | | | Prevalence Index = B/A = |
| | | | Hydrophytic Vegetation Indicators: |
| | | | 1 - Rapid Test for Hydrophytic Vegetation |
| • | | | 2 - Dominance Test is >50% |
| - | | = Total Cover | 3 - Prevalence Index is ≤3.0¹ |
| Herb Stratum (Plot size:5 | | | 4 - Morphological Adaptations ¹ (Provide supportin |
| | | | _ data in Remarks or on a separate sheet) |
|). | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | | Indicators of hydric soil and wetland hydrology must |
| l | | | be present, unless disturbed or problematic. |
| 5 | | | Definitions of Vegetation Strata: |
| S | | | Tree – Woody plants 3 in. (7.6 cm) or more in diamete |
| · | | | |
| 3 | | | Sapling/shrub – Woody plants less than 3 in. DBH |
|). | | | and greater than or equal to 3.28 ft (1 m) tall. |
| 0 | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 1 | | | - |
| 2 | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | 0 | = Total Cover | Š |
| Noody Vine Stratum (Plot size:) | | | |
| 1 | | | _ |
| 2 | | | |
| 3 | | | _ Hydrophytic |
| 1. | | | Vegetation |
| т | | = Total Cover | Present? Yes No✓ |
| | | = Loral Cover | |

SOIL

| | | h needed to document the indicator or confirm | | |
|--|---|--|--|--|
| Matrix Color (moist) | % | Redox Features Color (moist) % Type ¹ Loc ² | Texture | Remarks |
| 10YR 3/2 | 100 | | _LS_ | 10% gravel and rocks |
| 10YR 5/4 | 100 | | SL | 20% gravel and rocks |
| | | | | |
| Concentration D=Den | eletion RM= | Reduced Matrix MS=Masked Sand Grains | ² Location | n: PL=Pore Lining, M=Matrix. |
| | neuon, rivi= | Neduced Ividitis, Ivio-Ividsked Satio Glains. | | n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| pipedon (A2) distic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) | - - - | MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 149B) Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) | Coast 5 cm Dark 5 Polyvo Thin I Iron-M Piedm Mesic Red F | Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Murace (S7) (LRR K, L) Malue Below Surface (S8) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) Mont Floodplain Soils (F19) (MLRA 149B) Manganese Material (F21) Manganese Manga |
| | | land hydrology must be present, unless disturbed o | or problemati | с. |
| Layer (if observed): | • | | | |
| ochos): | | | Hvdric Soi | I Present? Yes No/_ |
| | | | , | |
| x observed in | soil prof | ile. Gravelly, rocky soil. | | |
| | Indicators: ol (A1) Epipedon (A2) distic (A3) en Sulfide (A4) ed Layers (A5) ed Below Dark Surface Park Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, Interpretation of hydrophytic vegeta Layer (if observed) | Indicators: Indicators: In | Polyvalue Below Surface (S8) (LRR R, MLRA 149B) distic (A3) | Indicators: Indic |

| Project/Site: Eagle 152 Acres | City/County: Waukesha County Sampling Date: 2024-07-29 |
|--|---|
| • | State: Wisconsin Sampling Point: P14 |
| | ka Section, Township, Range: <u>sec 27 T005N R017E</u> |
| • | Local relief (concave, convex, none): Concave Slope (%): 0-2 |
| | 183 Long: -88.463919 Datum: WGS84 |
| | Slopes NWI classification: None depicted |
| Are climatic / hydrologic conditions on the site typical for this time | · |
| | antly disturbed? Are "Normal Circumstances" present? Yes No _ ✓ |
| | y problematic? (If needed, explain any answers in Remarks.) |
| | |
| SUMMARY OF FINDINGS – Attach site map show | ring sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No✓ | Is the Sampled Area |
| Hydric Soil Present? Yes No | |
| Wetland Hydrology Present? Yes No | |
| Remarks: (Explain alternative procedures here or in a separate | |
| APT indicates climatic conditions are in the | wetter than normal range. Agricultural field, not NC. |
| | |
| | |
| | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that ap | |
| Surface Water (A1) Water-Stai High Water Table (A2) Aquatic Fa | ned Leaves (B9) Drainage Patterns (B10) una (B13) Moss Trim Lines (B16) |
| Saturation (A3) Marl Depos | |
| | Sulfide Odor (C1) Crayfish Burrows (C8) |
| | chizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) |
| | of Reduced Iron (C4) Stunted or Stressed Plants (D1) |
| | n Reduction in Tilled Soils (C6) Geomorphic Position (D2) |
| Iron Deposits (B5) Thin Muck | |
| | lain in Remarks) Microtopographic Relief (D4) |
| Sparsely Vegetated Concave Surface (B8) | FAC-Neutral Test (D5) |
| Field Observations: | |
| Surface Water Present? Yes No _✓ Depth (inc | :hes): |
| Water Table Present? Yes No _ ✓ Depth (inc | :hes): |
| Saturation Present? Yes No ✓ Depth (includes expillery fringe) | ches): Wetland Hydrology Present? Yes No ✓ |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p | hotos, previous inspections), if available: |
| OSA completed. Not a consistent signature | area. |
| Remarks: | |
| Minor crop stress in small patches of this sv | valo |
| Willion Grop Stress in Small patches of this sv | vale. |
| | |
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| | |
| | |

| Tree Stratum (Plot size: 30) | | Dominant Indicator Species? Status | Dominance Test worksheet: |
|---|----------|------------------------------------|--|
| 1 | | | Number of Dominant Species That Are OBL, FACW, or FAC:(A) |
| 2 3 | | | Total Number of Dominant Species Across All Strata:(B) |
| 4. 5. | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E |
| S | | | Prevalence Index worksheet: |
| 7 | | | Total % Cover of: Multiply by: |
| | 0 | = Total Cover | OBL species 0.00 x 1 = 0.00 |
| Sapling/Shrub Stratum (Plot size:) | | | FACW species0.00 x 2 =0.00 |
| i | | | FAC species <u>0.00</u> x 3 = <u>0.00</u> |
| | | | FACU species <u>0.00</u> x 4 = <u>0.00</u> |
| | | | UPL species <u>0.00</u> x 5 = <u>0.00</u> |
| i | | | Column Totals: <u>0.00</u> (A) <u>0.00</u> (B |
| · | | | Prevalence Index = B/A = |
| | | | Hydrophytic Vegetation Indicators: |
| | | | 1 - Rapid Test for Hydrophytic Vegetation |
| · . | | | 2 - Dominance Test is >50% |
| _ | | = Total Cover | 3 - Prevalence Index is ≤3.0¹ |
| Herb Stratum (Plot size: 5) | | | 4 - Morphological Adaptations ¹ (Provide supporting |
| 1 | | | data in Remarks or on a separate sheet) |
| 2 | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3 | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 4 | | | be present, unless disturbed or problematic. |
| 5 | | | Definitions of Vegetation Strata: |
| 5 | | | Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 3. | | | |
|) | | | 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 of size, and woody plants less than 3.28 ft tall. |
| 11 | | | |
| 2 | | | Woody vines – All woody vines greater than 3.28 ft in height. |
| | 0 | = Total Cover | Hoight. |
| Woody Vine Stratum (Plot size: 30) | | | |
| 1 | | | |
| 2. | | | |
| 3. | | | Hudronbudio |
| | | | Hydrophytic Vegetation |
| 4 | | | Present? Yes No✓ |
| | | = Total Cover | |
| Remarks: (Include photo numbers here or on a separate | , | | |
| Ag field planted in healthy soybean cro | • | | |
| egetation based on other parameters | , the OS | A, and professi | ional judgment. |
| | | | |

| inches) | Matrix Color (moist) | % | Color (moist) | <u>Features</u> % | Type ¹ | Loc ² | Texture | Remarks |
|---|---|------------|---|---|-------------------|------------------|---|---|
| 0-12 | 10YR 3/1 | 100 | <u>Color (molot)</u> | | Турс | | l | no redox |
| | 10YR 3/1 | 90 | 10YR 3/2 | 10 | | | | |
| <u>12-16</u> | | | 101R 3/Z | _10_ | | IVI | | faint redox |
| 16-24 | 10YR 2/1 | 100 | | | | | SIL | No redox, rocky |
| | | · ——— | | | | | | |
| | | · —— | | | | | 2 | |
| | oncentration, D=Dep Indicators: | letion, RM | =Reduced Matrix, MS | =Masked | Sand Gra | ains. | | n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ : |
| Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy F Stripped | stic (A3) In Sulfide (A4) Id Layers (A5) Id Below Dark Surfacerk Surface (A12) If Mucky Mineral (S1) Id Beyed Matrix (S4) Id Bedox (S5) Id Matrix (S6) If Action (S7) (LRR R, M | | Thin Dark Surfactory Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi | lineral (F1 Matrix (F2) (F3) face (F6) Surface (F |) (LRR K | | Dark Polyv Thin I Iron-N Piedn Mesic Red F Very : | Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B) Se Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21) Shallow Dark Surface (TF12) |
| ndicators o | f hydrophytic vegeta | tion and w | etland hydrology must | t be prese | nt, unless | disturbed of | or problemati | ic. |
| estrictive l | Layer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soi | il Present? Yes No _✓ |
| lemarks: | | | | | | | | |



Kaerek Homes Eagle 152 Acre Property Project #: 20241312 January 22, 2025

Appendix D | Site Photographs

Solutions for people, projects, and ecological resources.



Photo #1 Sample point P1



Photo #3 Sample point P1



Photo #5 Sample point P2



Photo #2 Sample point P1



Photo #4 Sample point P1



Photo #6 Sample point P2



Photo #7 Sample point P2



Photo #9 Sample point P3



Photo #11 Sample point P3



Photo #8 Sample point P2



Photo #10 Sample point P3



Photo #12 Sample point P3



Photo #13 Sample point P4



Photo #15 Sample point P4



Photo #17 Sample point P5



Photo #14 Sample point P4



Photo #16 Sample point P4



Photo #18 Sample point P5



Photo #19 Sample point P5



Photo #21 Sample point P6



Photo #23 Sample point P6



Photo #20 Sample point P5



Photo #22 Sample point P6



Photo #24 Sample point P6



Photo #25 Sample point P7



Photo #27 Sample point P7



Photo #29 Sample point P8



Photo #26 Sample point P7



Photo #28 Sample point P7



Photo #30 Sample point P8



Photo #31 Sample point P8



Photo #33 Sample point P9



Photo #35 Sample point P9



Photo #32 Sample point P8



Photo #34 Sample point P9



Photo #36 Sample point P9



Photo #37 Sample point P10



Photo #39 Sample point P10



Photo #41 Sample point P11



Photo #38 Sample point P10



Photo #40 Sample point P10



Photo #42 Sample point P11



Photo #43 Sample point P11



Photo #45 Sample point P12



Photo #47 Sample point P12



Photo #44 Sample point P11



Photo #46 Sample point P12



Photo #48 Sample point P12



Photo #49 Sample point P13



Photo #51 Sample point P13



Photo #53 Sample point P14



Photo #50 Sample point P13



Photo #52 Sample point P13



Photo #54 Sample point P14



Photo #55 Sample point P14



Photo #56 Sample point P14



Kaerek Homes Eagle 152 Acre Property Project #: 20241312 January 22, 2025

Appendix E | Delineator Qualifications

Solutions for people, projects, and ecological resources.

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1027 W St Paul Ave
Milwaukee WI, WI, 53233

Tony Evers, Governor Adam N. Payne, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



March 22, 2024

Eric Parker, SPWS, CWS Heartland Ecological Group, Inc. 4821 Elm Island Circle Waterford, WI 53185

Subject: 2024 Assured Wetland Delineator Confirmation

Mr. Parker:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2024 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

To comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate in which system the data are projected. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.). Please send these data to Calvin Lawrence (608-266-0756 or email at calvin.lawrence@wisconsin.gov).

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

Kara Brooks

Wetland Identification Coordinator Bureau of Watershed Management



Eric C. Parker, SPWS

Principal Scientist 506 Springdale Street Mount Horeb, WI 53572 eric@heartlandecological.com (414) 380-0269



Mr. Parker is a Senior Professional Wetland Scientist and Professionally Assured Wetland Delineator in Wisconsin with 35 years of experience assisting public and private clientele. He has completed wetland projects in other states including IL, IN, OH, MI, ND, MO, PA, TX, MD, VA, and NC. His work has supported thousands of institutional, commercial, utility, residential, industrial & transportation projects. Mr. Parker's natural resource specialties include botanical surveys, wetland science, restoration and mitigation, and environmental corridor mapping. He has a widespread understanding of the scientific, technical, and regulatory aspects of natural resources projects. His interests also include floristic quality assessment (FQA) and wetness categorization of plant species.

Mr. Parker's experience includes the following: Botanical / Biological Surveys and Natural Resource Inventories; Rare Species Surveys, Conservation Plans and Monitoring; Wetland Determination, Delineation and Functional Assessment; Wetland Exemptions; Environmental Corridor Determinations/Mapping; Wetland Restoration, Mitigation, Banking and Monitoring; Habitat Restoration, Wildlife Surveys, SCAT surveys, Environmental Assessments; Local, state, federal permit applications; Expert Witness testimony; and Regulatory permit compliance.

Education

BS, Watershed Management, Soils Minor University of WI - Stevens Point, 1983

Wetland Ecosystems (including delineation & assessment), USEPA Graduate School Washington DC, 1988

Field Oriented Wetland Delineation Course (1987 Corps Manual) Wetlands Training Institute (WTI) St. Paul, MN, 1994

Basic Wetland Delineation Training Wisconsin Dept. of Administration Waukesha, WI, 1997

Vegetation Description, UWM Cedarburg Bog Field Station, Saukville, WI, 1998

Advanced Wetland Delineation, U. of WI - La Crosse, Bayfield County, WI, 2001

Critical Methods in Wetland Delineation, University of WI - La Crosse Continuing Education and Extension, Madison, WI, 2006, 2008, 2010, 2014, 2016-2020 Mosses ID & Ecology, UWM Cedarburg Bog Field Station, Saukville, WI, 1998

Sedges ID & Ecology, UWM Cedarburg Bog Field Station, Saukville, WI, 2002, 2006, 2010

Grasses ID & Ecology, UWM Cedarburg Bog Field Station, Saukville, WI, 1998

Registrations

Senior Professional Wetland Scientist #838, (SPWS), Society of Wetland Scientists Professional Certification Program, 1995-current

Certified Wetland Scientist #C-058, (CWS), Stormwater Management Commission Lake County, IL, 2002-current

Qualified Wetland Review Specialist #W-057, (QWRS), Kane County, IL, 2006-current



Project Experience

Wetland Delineation & Regulatory Support

2022 Wetland Delineations, Exemption Submittals, and Permitting (104 sites)

Capitol Dr Property, Waukesha Co., WI (Jan); Puetz Rd Property, Milwaukee Co., WI (Jan); Glas Driveway Wetlands and GP, Kenosha Co., (Mar); 19555 W Lincoln Ave GP, Waukesha Co., WI (Mar); Northern Oaks Subd GP-AWER, Waukesha Co., WI (Mar); Workman Properties, Waukesha Co., WI (Apr); 5732 W Rawson Av, Milwaukee Co., WI (Apr); 2705 West Rd, Racine Co., WI (Apr); CTH CW Site, Dodge Co., WI (Apr); 4-Mile Rd Property, Racine Co., WI (Apr); Kurtze Ln Property, Waukesha Co., WI (Apr); 128th St Parcel, Kenosha Co., WI (Apr); Thomas Property Wetlands-PEC-Navigability, Waukesha Co., WI (Apr); Ament Property, Racine Co., WI (Apr); W3970 South Shore Dr, Walworth Co., WI (Apr); N2280 Temperance Tr, Walworth Co., WI (Apr); S Clark St Parcel, Dodge Co., WI (Apr); Deer Haven GC, Waukesha Co., WI (May); Petrie Rd 7.5 Ac Parcel, Walworth Co., WI (Apr); 5.5Ac Parcel Mukwonago, Waukesha Co., WI (Apr); S107 W16311 Loomis Rd Parcel, Waukesha Co., WI (Apr); CTH A & USH 12 Property, Walworth Co., WI (Apr); Cape Crossing NFE, Milwaukee Co., WI (Apr); Teipner Parcel, Waukesha Co., WI (Apr); Lichner Parcel, Waukesha Co., WI (Apr); Biocut Systems Site AWER, Waukesha Co., WI (Apr); Spring St Parcels, Racine Co., WI (May); US41 Corridor, Waukesha Co., WI (Apr); Reddelien Rd Parcel, Waukesha Co., WI (May); Watertown Rd Property, Waukesha Co., WI (May); 10027 Camelot Dr, Racine Co., WI (May); Koller Property, Ozaukee Co., WI (May); Altschaefl Property, Waukesha Co., WI (May); Pipito Property Pond, Dodge Co., WI (May); Kenora Rd Parcels, Waukesha Co., WI (May); Moorland & Greenfield Wetlands-AWER, Waukesha County, WI (May); Alliant Edgewater GS, Sheboygan Co., WI (May); Arbet North Parcel, Kenosha Co., WI (May); Pleasant Prairie Police Station, Kenosha Co., WI (May); 3rd Ave Pleasant Prairie Site, Kenosha Co., WI (May); 10766 N Torrey Dr Property, Ozaukee Co., WI (Jun); Kolnick Parcel, Kenosha Co., WI (Jun); Gateway Dr Watertown, Jefferson Co., WI (Jun); Green Bay Gardens Site, Kenosha Co., WI (Jun); DuCharme Property Wetlands-PEC, Waukesha Co., WI (Jun); 2301 Lakeshore Dr. GP-Tree Survey, Ozaukee Co., WI (Jun); 641 Drexel Wetlands-GP, Milwaukee Co., WI (Jun); Quigley Farm, Washington Co., WI (Jun); Big Bend Business Park, Waukesha Co., WI (Jun); Lad Lake Property, Waukesha Co., WI (Jun); Pleasant Prairie PP Utility Corridor, Kenosha Co., WI (Jul); Pleasant Prairie Fire Station 3, Kenosha Co., WI (Jul); CTH H Parcels, Walworth Co., WI (Jul); Oakwood Rd Parcels, Milwaukee Co., WI (Jul); Big Bend Rd Property, Waukesha Co., WI (Jul); Heartland Communities, Racine Co., WI (Jul); Leo Living Bristol Wetlands-PEC, Kenosha Co., WI (Jul); Stream Conservation Union Grove, Racine Co., WI (Jul); 8979 S 42nd St Franklin, Milwaukee Co., WI (Jul); 2205 Silvernail Rd, Waukesha Co., WI (Jul); East Wolf Run Mukwonago, Waukesha Co., WI (Jul); 1302 Roundtable Dr, Racine Co., WI (Jul); Corporation Parcel Dover, Racine Co., WI (Jul); 11925 W Lake Park Dr, Milwaukee Co., WI (Jul); 17905 W Capitol Dr Parcel, Waukesha Co., WI (Jul); Mosconi West Property, Kenosha Co., WI (Jul); Promise Builders Site, Kenosha Co., WI (Jul); Highland Dr Menomonee Falls Botanical Survey, Waukesha Co., WI (Aug); METRO RDF Expansion, Milwaukee Co., WI (Aug); 5.53 Ac Mukwonago Site, Waukesha Co., WI (Aug); Northstar Beloit Site, Rock Co., WI (Aug); Wirth Farm PEC-AWER-Tree Survey, Ozaukee Co., WI (Aug); Olympia Fields Wetlands-AWER, Waukesha Co., WI (Aug); Maple Rd Softball Field, Washington Co., WI (Aug); Blise Property Pond, Washington Co., WI (Aug); St. Johns NW Military Academy Wetlands-PEC, Waukesha Co., WI (Aug); Wildwood Property Wetlands-Navigability, Walworth Co., WI (Aug); Goldendale Rd Property, Washington Co., WI (Aug); 6951 S Lovers Lane, Milwaukee Co., WI (Aug); Klumb Property Wetlands-Corridor, Waukesha Co., WI (Aug); Ulao Creek Residential, Ozaukee Co., WI (Sep); Grand Hills Castle Expansion GP, Waukesha Co., WI (Sep); 31110 82nd St Property, Kenosha Co., WI (Sept); Miller Property Wetlands-SEC, Waukesha Co., WI (Sep); Townline Rd Water Main Wetlands-GP, Waukesha Co., WI (Sep); Sanctuary at Good Hope East PEC, Waukesha Co., WI (Oct); Kutzler Express Property, Kenosha Co., WI (Oct); 47th Ave Property, Kenosha Co., WI (Oct); Steinbrink Property, Kenosha Co., WI (Oct); Caledonia Developments, Racine Co., WI (Oct); DeGrave Farm, Racine Co., WI (Oct); Nettesheim Farm Pewaukee, Waukesha Co., WI (Oct); Fisher-Barton Property, Waukesha Co., WI (Oct); BRP shipyard Sturtevant, Racine Co., WI (Oct); CTH C Site Sheboygan Falls, Sheboygan Co., WI (Oct); Willabay Meadows Residential, Walworth Co., WI (Oct); Thode Dr Property, Waukesha Co., WI (Oct); Middle Rd Property Wetlands-AWER, Racine Co., WI (Oct); Three Pillars Dousman Ph1A, Waukesha Co., WI (Oct); Primrose School Site Brookfield, Waukesha Co., WI (Oct); Grand Geneva Housing Site, Walworth Co., WI (Nov); 2651 Fuller Rd Site, Rock Co., WI (Nov); Willis Ray Rd Property, Walworth Co., WI (Nov); Harding Dr Menomonee Falls Site, Waukesha Co., WI (Nov).

2021 Wetland Delineations, Exemption Submittals, and Permitting (95 sites)

CTH CW Property Exemption, Jefferson Co., WI (Jan); BP Parcel Determination, Kenosha Co., WI (Mar); Narula Property, Kenosha Co., WI (Apr); So Wi Veterans Mem Cemetery, Racine Co., WI (Apr); N. 70th St. Site, Milwaukee Co., WI (Apr); 6th & Grange Site, Milwaukee Co., WI (Apr); North Lake Dr Site, Racine Co.,



WI (Apr); E. Lakeshore Dr Property, Kenosha Co., WI (Apr); Deaton Parcel Exemption, Kenosha Co., WI (Apr); Alliant Energy Solar Site, Sheboygan Co., WI (Apr); Breg-3 Site Exemptions, Milwaukee Co., WI (Feb); Bristol Highlands, Kenosha Co., WI (Apr); Sandalwood Lot 20, Oconto Co., WI (Apr); Martin Rd Parcels, Waukesha Co., WI (Apr); Fair Meadow Subd Exemption, Walworth Co., WI (Apr); Will Rose Haven GP, Waukesha Co., WI (Apr); Bristol Property Wetlands & Exemption, Kenosha Co., WI (Apr); 11900 N Port Washington Rd, Ozaukee Co., WI (Apr); Gibbs Parcel, Kenosha Co., WI (May); Schaefer Farm, Racine Co., WI (May); Lisbon 12-Ac Parcel, Waukesha Co., WI (May); Coach Hills Exemptions, Racine Co., WI (May); Ventimiqlia Property, Oconto Co., WI (May); Case HS Property, Racine Co., WI (May); Warntjes North-South Parcels, Kenosha Co., WI (May/Jul); CSM 3325 Dover, Racine Co., WI (May); STH 175 Parcel, Washington Co., WI (May); Holy Hill Rd Property, Washington Co., WI (May); Lyons Parcel Determination, Walworth Co., WI (May); CSM 3591 Mequon, Ozaukee Co., WI (May); Parcel 293-0965 Pleasant Prairie, Kenosha County, WI (May); Denoon Country Estates Muskego, Waukesha Co., WI (May); Blaze Landscaping Lisbon Parcel Wetlands-Exemption, Waukesha Co., WI (Jun); Hughes Parcel wetlands-Woodlands-PEC, Racine Co., WI (Jun); Logan Parcel, Washington Co., WI (May); CTH LL Property, Ozaukee Co., WI (Jun); Steenburg Farm Oakridge, Fond du Lac Co., WI (Jun); Steenburg Farm Dallman, Fond du Lac Co., WI (Jun); UW Parkside Utility Renovations, Kenosha County, WI (May); Salem Lakes Parcel 70412, Kenosha County, WI (Jun); Russet Ct Muskego Site, Waukesha Co., WI (Jun); Kazmierczak Property, Washington Co., WI (Jun); Parcel 152-0100 Pleasant Prairie, Kenosha Co., WI (Jun); 59-Acre Parcel Lisbon Property, Waukesha Co., WI (Jun); 98th St Parcel Randall, Kenosha Co., WI (Jun); Ryan Rd 80-Ac Site, Milwaukee Co., WI (Jul); Hickory Hill West Wetland-PEC Lisbon, Waukesha Co. WI (Jun); Cranberry Creek Landvill, Wood Co., WI (Jul); Christina Estates Outlot 1 Exemption, Racine Co., WI (Jul); LG House of Music Property, Walworth Co., WI (Jul); STH 158-I94 Property, Kenosha Co., WI (Aug); 3-Mile Rd Property, Racine Co., WI (Jul); Price Parcel Ottawa, Waukesha Co., WI (Jul); Lot 1 Lilac Rd Rubicon, Dodge Co., WI (Aug); 633 Progress Dr Determination, Ozaukee Co., WI (Jul); I41 & STH60 Property Slinger, Washington Co., WI (Aug); Summit Parcel 0708985 Determination, Waukesha Co., WI (Aug); Timberline Trail Landfill Wetlands and Exemption, Rusk Co., WI (Aug); Seasons at Mt Pleasant Sewer, Racine Co., WI (Aug); Kenny Dr Lots 1-2, Washington Co., WI (Aug); Bliffert Lumber Germantown, Washington Co., WI (Aug); Gibson Parcels Eagle Site, Waukesha Co., WI (Aug); Clover Run Stables, Racine Co., WI (Sep); Pink Property Salem Lakes GP, Kenosha Co., WI (Sep); Albano Property Carol Beach, Kenosha Co., WI (Sep); Mosconi Parcel Somers, Kenosha Co., WI (Sep); Petrie Rd Property Geneva, Walworth Co., WI (Sep); NML Property Oak Creek, Milwaukee Co., WI (Sep); Carol Beach Estates, Kenosha Co., WI (Sep); Mt. Pleasant Business Ctr Site, Racine Co., WI (Sep); Pleasant Prairie Power Plant, Kenosha Co., WI (Sep); STH 31 Property, Racine Co., WI (Sep); 112th St Expansion Parcel, Milwaukee Co., WI (Oct); Glacier Ridge Landfill EC Site, Dodge Co., WI (Sep); City-View Subdivision Horicon, Dodge Co., WI (Sep); Rock Rd Co Beloit, Rock Co., WI (Oct); Glass Parcels Richfield, Washington Co., WI (Oct); Alliant Clinton Substation, Rock Co., WI (Oct); Triggs Property Delafield, Waukesha Co., WI (Oct); Singh Parcel Franklin, Milwaukee Co., WI (Oct); Hilmer Property Muskego, Waukesha Co., WI (Oct); Baseler Property Muskego, Waukesha Co., WI (Oct); ALDI Property Oak Creek, Milwaukee Co., WI (Oct); Plank Rd Property Burlington, Racine Co., WI (Oct); Jackson Marsh Restoration Site, Washington Co., WI (Oct); Pilgrim Rd Parcel Brookfield, Waukesha Co., WI (Oct); Henneberry Parcel Muskego, Waukesha Co., WI (Oct); Ewig Parcel Franklin, Milwaukee Co., WI (Oct); STH 120 Site L Geneva, Walworth Co., WI (Oct); KMHS Wales, Waukesha Co., WI (Oct); 184th Ave Bristol Property, Kenosha Co., WI (Oct); 144th Ave Bristol Property, Kenosha Co., Pabst Rd Oconomowoc Site, Waukesha County, WI (Oct); N Lake Shore Dr Mequon, Ozaukee Co., WI (Nov); 28414 Wilmot Rd Salem Lakes, Kenosha Co., WI (Nov); 819 E Drexel Site, Milwaukee Co., WI (Nov).

2020 Wetland Delineations, Exemption Submittals, and Permitting (90 sites)

Courtney Street Storage Buildings, Racine Co., WI (Feb); 86th Ave & STH 165 Parcel, Kenosha Co., WI (Feb-Apr); Harris Gravel Pit, Dane Co., WI (Mar-Apr); Alliant Birnamwood Substation, Shawano Co., WI (Apr); Rolling Meadows Drive Parcel, Fond du Lac Co., WI (Apr); Lieds Nursery Site, Waukesha Co., WI (Apr); Plas-Tech Engineering Site, Walworth Co., WI (Apr); Fink Parcel, Racine Co., WI (Apr); Lot 1 Proposed CSM 3258, Racine Co., WI (Apr); Harris Gravel Pit, Dane Co., WI (May); Schumacher Rd Reconstruction, Dane Co., WI (Apr); Whitetail Ridge Ph2, Kenosha Co., WI (Apr), Kelly Pit Addition, Dane Co., WI (Apr); Myrtle Way Road Improvements, Rock Co., WI (Apr); Pewaukee Industrial Park South, Waukesha Co., WI (May); Mueller Property, Fond du Lac Co., WI (Apr); 3901 Kipp Street Site, Dane Co., WI (Apr); Witte Parcels, Dane Co., WI (Apr); Sandalwood Lots 7-8, Oconto Co., WI (Apr); Yellowstone Outdoor Resort, Lafayette Co., WI (Apr); S&L Underground Expansion, Columbia Co., WI (May); 200 Baraboo Street, Sauk Co., WI (May); Jefferson Pit, Jefferson Co., WI (May); Rock Point Village, Waukesha Co., WI (May); Blanchardville Coop Oil & NGSD Parcels, Green Co., WI (May); Logtown Development, Sauk Co., WI (Jun); Maple Ave Property, Waukesha Co., WI (May); Wanasek Property, Racine Co., WI (May); Meier Farms, Dane Co., WI (Jun); 76th & Ryan Site, Sauk Co., WI (May); Milton Townline Road Site, Rock County, WI (May); Somers Multi-family Site, Kenosha



Co., WI (May); Cazenovia WWTP Expansion, Waukesha Co., WI (Jun); Waukegan Property, Lake Co., IL (Jun); Ozaukee Christian School, Washington Co., WI (Jun); Kohler Distribution Center, Sheboygan Co., WI (Jun); Veterans Memorial Park West Site, Kenosha County, WI (Jun); Veterans Memorial Park East Site, Kenosha County, WI (Oct); Bristol Commons Site, Kenosha Co., WI (Jun); Barels Property, Racine Co., WI (Jun); Rogich Property, Milwaukee Co., WI (Jun); CTH MM Intersection Reconstruction, Dane Co., WI (Jul); Rose Property, Racine Co., WI (Jun); Baldev Court Property, Ozaukee Co., WI (Jul); Paul-Meghan Dominie Property, Dane Co., WI (Jul); Union Court Site, Kenosha Co., WI (Jul); Webcrafters Parcels, Dane Co., WI (Jul); Site Security Upgrades Site, Waukesha Co., WI (Jul); Scuppernong Creek Site, Waukesha Co., WI (Jul); W9030 Oak Ridge Road Property, Jackson Co., WI (Jul); Cherokee Golf Course, Dane Co., WI (Aug); W3948 South Shore Drive, Walworth Co., WI (Aug); Caledonia Multifamily Site, Racine Co., WI (Aug), Mittelstaedt Property, Sauk Co., WI (Aug); 1525 Bryce Drive Parcel, Winnebago Co., WI (Sep); Platten Property, Outagamie Co., WI (Sep); St. Mary's Springs Site, Fond du Lac Co., WI (Sep); Fairway Village Site, Ozaukee Co., WI (Sep); Quarry Park Site, Waukesha Co., WI (Sep); CTH F-Concord Site, Jefferson Co., WI (Sep); HJ Williams Farm, Adams Co., WI (Oct); STH 16-Lisbon Rd Parcel, Waukesha Co., WI (Sep); Golden Lake Road Property, Waukesha Co., WI (Sep); 4522 CTH P Parcel, Washington Co., WI (Sep); Darby Farms, Kenosha Co., WI (Sep); 227 Sussex Street, Waukesha Co., WI (Sep); Lexus of Brookfield Site, Milwaukee Co., WI (Sep); Wesner Greenfield Ave Parcels, Waukesha Co., WI (Sep); Oriole Lane Parcels, Ozaukee Co., WI (Oct); Wayside Parkview Estates, Brown Co., WI (Sep); Wind Point Parcel, Racine Co., WI (Oct); Geneva National Lot 18-23, Walworth Co., WI (Oct); Badger Farm, Racine Co., WI (Oct); Dorset Corners Substation, Monroe Co., WI (Sep); Covered Bridge Rd Site, Ozaukee Co., WI (Oct); Trek Distribution Center, Jefferson Co., WI (Oct); Craftsman Drive Parcel, Waukesha Co., WI (Oct); Village Green Subdivision, Ozaukee Co., WI (Oct); Ansay Farm, Ozaukee Co., WI (Oct); Zenner Farm Property, Racine Co., WI (Oct); West Snell Rd Site, Winnebago Co., WI (Oct); Kenosha County Bridges, Kenosha Co., WI (Oct); Confidential Site Janesville, Rock Co., WI (Oct); Janesville Airport Site, Rock Co., WI (Oct); 10920 West Liberty Drive, Milwaukee Co., WI (Oct); V of River Hills 53-Acre Site, Milwaukee Co., WI (Oct); Hwy 14 & Lacy Rd Site, Dane Co., WI (Oct); Wilderness Way Parcel, Waukesha County, WI (Oct); Hummingbird Lane Parcel, Sheboygan Co., WI (Oct); Plainview Rd Site, Waukesha Co., WI (Nov); Delimat Property, Kenosha Co., WI (Nov); 11900 N Port Washington Rd Parcel, Ozaukee Co., WI (Nov); Canopy Hills Artificial Wetland, Racine Co., WI (Dec); Strauss Brands Facility, Milwaukee County, WI (Dec).

2019 Wetland Delineations, Exemption Submittals, and Permitting (39 sites)

North Hills Subdivision, Waukesha Co., WI (Jan); Prairie Walk Subdivision, Waukesha Co., WI (Apr); Loomis Parcel Determination, WI (Mar-Apr); Lamminem Parcel, Kenosha Co., WI (Apr); Lot 103 Burlington, Racine Co., WI (Apr); 7220 Ryan Rd Parcel, Milwaukee Co., WI (Apr); 1-Acre Franklin Parcel, Milwaukee Co., WI (June); 256th Ave Site, Kenosha Co., WI (May); 915 Main St Mukwonago, Waukesha Co., WI (May); Muskego Lakes CC, Muskego, Waukesha Co., WI (June), Bonniwell Road Parcel, Ozaukee Co., WI (July); 333 Portland Rd Site, City of Waterloo, Jefferson Co., WI (May); Thompson Lane Parcel, Village of Chenequa, Waukesha Co., WI (May); Schmitz Redi-Mix Site, Village of Mt. Pleasant, Racine Co., WI (June); New Berlin Redi-Mix Site, City of New Berlin, Waukesha Co., WI (May); Elm Grove Road Basin, City of New Berlin, Waukesha Co., WI (May); Lathrop-Meacham Parcels Mitigation Site, Village of Mt. Pleasant, Racine Co., WI (May-July); Lot 18-31 Geneva National Site, Town of Geneva, Walworth Co., WI (July); Bohner's Lake Parcel, Town of Burlington, Racine Co., WI (Sept); 6970 South 6th St., City of Oak Creek, Milwaukee Co., WI (Aug); Weatherstone Meadows site, City of New Berlin, Waukesha Co., WI (Aug); Parkview Apartments site, Village of Somers, Kenosha Co., WI (Aug); Volkswagen Expansion site, Village of Pleasant Prairie, Kenosha Co., WI (Aug); Pewaukee-Brookfield Trail, Waukesha Co., WI (Aug-Sept); Parcel 1268-993, City of New Berlin, Waukesha Co., WI (Aug); Germantown Industrial Business Park, Washington Co., WI (Oct); Haasch- Finger site, City of Brookfield, Waukesha Co., WI (Oct); Kennedy Property, Village of Waunakee, Dane Co., WI (Oct); Jefferson County Interurban Trail, Towns of Watertown and Ixonia, Jefferson Co., WI (Oct); Mukwonago Residential Parcel, Village of Mukwonago, Waukesha Co., WI (Oct); Pine Ridge Estates, City of Oconomowoc, Waukesha Co., WI (Oct); Silver Lake Parcels, Village of Salem Lakes, Kenosha Co., WI (Oct); New Berlin Trail Phase II, City of Waukesha, Waukesha Co., WI (Oct); 1910 W Puetz Road site, City of Oak Creek, Milwaukee County, WI (Oct); Project Redline, Village of Menomonee Falls, WI (Oct); CSM 3232 Oulot 1, Village of Mt. Pleasant, Racine Co., WI (Oct); Plant Community Mapping and Assessment, City of Oak Creek, Milwaukee Co., WI (Nov); Faber Property, Village of Williams Bay, Walworth Co., WI (Nov); Campus Drive Property, Village of Hartland, Waukesha Co., WI (Dec).

Example 2018 Wetland Delineations in WI and IL (50 sites)

Homestead Acres, Racine Co., WI (Apr); Greenmeadows, Racine Co., WI (Apr), Wind Point School, Racine Co., WI (Apr); Vintage Parc East, Kenosha Co., WI (Apr); Nelson-Heckel, Kenosha Co., WI (Apr); Caledonia Storage, Racine Co., WI (Apr); New Berlin Storage, Waukesha Co., WI (Mar); Manke Gravel Pit, Columbia



Co., WI (May); Drissel-Wallace, Kenosha Co., WI (May); LaBelle Golf Course, Waukesha Co., WI (May); Waterloo Aluminum, Jefferson Co., WI (May); Salem Business Park, Kenosha Co., WI (May); Audubon Arboretum, Racine Co., WI (May); Briarwood, Racine Co., WI (May); Basting-Brown Parcels, Waukesha Co., WI (May); 84-Acre Site, Racine Co., WI (May); Jolenta Lane, Waukesha Co., WI (Apr); Rock Road Storage, Walworth Co., WI (May); Wildwood Creek, Winnebago Co., WI (Jun); Green Bay Site, Brown Co., WI (Jun); Main Street Market, Kenosha Co., WI (Jul), Armstrong Eddy Park, Rock Co., WI (May), Hickory St Site, Ozaukee Co., WI (Jun), Parcel DW 800004, Walworth Co. (Jun); Lot 8 Parcel WCA-0003, Walworth Co., WI (Jun); RRR Grundy, Kane Co., IL (Jul); Coleman Norris Parcel, Waukesha Co., WI (Jul); Deaton Parcel, Kenosha Co., WI (Aug); Hintz Parcel, Washington Co., WI (Aug); Loomis-Ryan Rds Site, Milwaukee Co., WI (Aug); Grass Parcels, Waukesha Co., WI (Sep); Mallard Ridge Landfill Pipeline, Walworth Co., WI (Sep); Glacier Ridge Landfill Pipeline, Dodge Co., WI (Sep); Ravenwoods, Waukesha Co., WI (Aug); Canopy Hills, Racine Co., WI (Sep); Duck Pond, Kenosha Co., WI (Sep); Splinter Parcels, Racine Co., WI (Oct); Berget Parcel, Walworth Co., WI (Sep); Saylesville Rd Parcel, Waukesha Co., WI (Oct); Racine Ave-Lawnsdale Rd Parcel, Waukesha Co., WI (Oct); Braun Rd-90th St Parcel, Racine Co., WI (Oct); Grafton Parcels, Ozaukee Co., WI (Dec); Crawford Parcel, Racine Co., WI (Nov); Kotas Parcels, Racine Co., WI (Nov); Altamount Acres South, Racine Co., WI (Dec); Christina Estates, Racine Co., WI (Dec); Christina Estates NE, Racine Co., WI (Dec); Lathrop Parcel, Racine Co., WI (Dec); Hillside Ridge, Waukesha Co., WI (Dec); Stolz Property, Waukesha Co., WI (Dec).

Example 2017 Wetland Delineations in WI, MI, IN, and IL (31 Sites)

Back 40 Mine, Menominee Co., MI (Jan); Oakdale Rd Site, Waukesha Co., WI (Sep), Birds Eye Foods, Walworth Co., WI (Sep); Boss Property, Leelanau Co., MI (Jul); Brighton Estates, Waukesha Co., WI (Sep); Saltzman North, Waukesha Co., WI (Sep); Susnar Parcel, Waukesha Co., WI (Sep); Wrenwood Site, Washington Co., WI; Chorneyko Site, Walworth Co., WI (Apr); CN Railroad Bridges-6 Sites, Fond du Lac & Winnebago Co's, WI; CN Railroad Freeport Culvert, Kane Co., IL (May); Herrling Site, Dane Co., WI (Sep); MMSD Sewerage Project, Milwaukee Co., WI (May); Spring St Site, Racine Co., WI (Oct); Goshen Midway Cell Tower, Elkhart Co., IN (Apr); Two Creeks Utility Site, Manitowoc Co., WI (Nov); Suncast Site, Kane Co., IL (Dec); Lot 51 Lakeview Corp Park, Kenosha Co., WI (Oct); Lakefront Gun Range, Racine Co., WI (Oct); WI Club Golf Course, Milwaukee Co., WI (Apr); WisDOT Improvements, STH 32 Racine Co (Aug), STH 67 Walworth Co. (Sep), STH 20, Racine Co. (Oct), 27th St, Milwaukee Co. (Sep); Conference Point Boat Launch, Walworth Co., WI (Oct); Lake View RR Corridor, Portage Co., WI (Sep).

Example 2016 Wetland Delineations in WI, OH, MI and IL (Mostly Large Projects)

AEP Wavery-Adams-Seaman 138 kV Trans. Line Rebuild, Adams & Pike Co's, OH (Dec); Kansas West-Faraday Trans. Line Rebuild-Macon, Moultrie, & Coles Co's, IL (Jan), Riveredge Nature Center Preliminary, Ozaukee Co., WI (Feb); Lost Creek Mitigation Site, Portage Co., WI (Jun); I-41 Burleigh to Good Hope Corridor WisDOT, Milwaukee Co., WI (Jul); STH 60 Corridor, Ozaukee & Washington Co's, WI (Aug-Oct); Erin Hills Golf Course, Washington Co., WI (Sep); Back 40 Mine, Menominee Co., MI; Lake Zurich SW Cell Tower, Lake Co., IL (Oct); Acme Steel Coke Site, Cook Co., IL (Dec).

Example 2015 Wetland Delineations in WI, IL, and MO (Mostly Large Projects)

Bolser Street MO33211-M Cell Tower Site, Grundy Co., MO (Sep); Section 9 Site, Dane Co., WI (Apr); Franzel Rd Site, Bayfield Co., WI (Apr); Big Eau Pleine Mitigation Site, Marathon Co., WI (Aug); Taylor Road Siding Track, Jackson Co., WI (Nov); UPS-CACH Site, Cook Co., IL (Jun); Eggers Woods Forest Preserve, Cook Co., IL (Mar).

Example 2014 Wetland Delineations in WI, IL, and MI (Mostly Large Projects)

Emerald Park Western Expansion, Waukesha Co., WI (Oct); Arcadia Mining Site-Trempealeau Co., WI (Apr); Kalamazoo River Parcel, Kalamazoo and Calhoun Co's, MI (Jul); G2 Mitigation Site - Winnebago Co., WI (May); Line 6A MP 378.94, McHenry Co., IL (Sep); Geneva National Site, Walworth Co., WI (Nov); Nortrax Site -Lincoln Co., WI (Oct); Toberman Parcel- Crawford Co., WI (Oct).

Example 2013 Wetland Delineations in WI, IL, OH, and MI (Mostly Large Projects)

West Central Lateral - Eau Claire, Clark, Jackson & Monroe Co's, WI (Apr-May); Walker Cranberry 80- acre Parcel - Jackson Co., WI (Sept - Oct); Berne to Natrium Pipeline, Monroe Co., OH (Oct); CNX Noble Pipeline - Noble Co., OH (Oct); Deer Grove Forest Preserve, Cook Co., IL (Nov).

Example 2012 Wetland Delineations in WI, IL, IN, and TX (Mostly Large Projects)

West Central Lateral (190 miles), Eau Claire, Clark, Jackson & Monroe Co's, WI (Sep-Nov); Morrison Creek



Cranberry Parcel, Jackson Co., WI (Aug); London Mitigation Site, Jefferson Co., WI (July); Southern Access Pipeline, Sawyer & Washburn Co's, WI (Jun); I-80 Interchange, LaPorte Co., IN (Mar); Eagle-Ford Shale Plays, LaSalle & McMullen Co's, TX (Jan-Feb).

I-94 Corridor Wetland and Primary Environmental Corridor Mapping and Endangered Species Study, Milwaukee, Racine, and Kenosha Counties, WI (Project Manager and Lead Scientist)

Primary Environmental Corridor Delineation Parkview Site, Village of Somers, WI (Lead Scientist)

Elm Road Generating Station, Oak Creek & Caledonia, WI (Project Manager & Lead Scientist)

Tri-State Tollway, Deerfield Plaza Wetland and Endangered Species Investigation, Lake and Cook Counties, IL (Lead Scientist)

Guardian II Laterals, Fox Valley, Hartford and West Bend, WI (Project Manager and Lead Scientist)

ATC Paris to St. Martins (KK3025) 138KV Line Rebuild, Kenosha, Racine and Milwaukee Counties, WI (Project Manager and Lead Scientist)



Kaerek Homes Eagle 152 Acre Property Project #: 20241312 January 22, 2025

Appendix F | Off-Site Analysis

Solutions for people, projects, and ecological resources.



TABLE A1

Wetland Hydrology from Aerial Imagery - Recording Form*

| Project Name: | 152 Acres Site - Eagle | Date: 7/29/2024 | | County: | Waukesha |
|---------------|------------------------|------------------------------|------------|-------------|----------|
| Investigator: | Eric C. Parker, SPWS | Legal Description (T, R, S): | <u>T5N</u> | <u>R17E</u> | Sec. 27 |

Summary Table

| Summary Table Image Interpretation(s) | | | | | | | | | | | |
|--|--------------|---|---|----------------------------|----------------------------|---------------|---------------|--|--|--|--|
| | | | | | | | | | | | |
| Date Image Taken (M-Y) | Image Source | Climate Condition (wet, dry, normal) | See Signature Areas Map for general outlines of Areas 1-8 | | | | | | | | |
| ruken (W 1) | | (wee, ary, normar) | Area: 1 (P7) | Area: 2 (P8) | Area: 3 (P11, P12, P13) | Area: 4 (P6) | Area: 5 (P10) | | | | |
| Jun-95 | FSA Slide | Normal | SS | SS | NV NSS | NV NSS | NV NSS | | | | |
| Aug-96 | FSA Slide | Normal | CS | CS DO | NV NSS | NV NSS | NV NSS | | | | |
| Jun-97 | FSA Slide | Normal | SS | SS | SS | NV NSS | NV NSS | | | | |
| Jun-98 | FSA Slide | Normal | SS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| Jun-99 | FSA Slide | Wet | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| Jun-00 | FSA Slide | Normal | NV NSS | NV NSS | SS | NV NSS | NV NSS | | | | |
| Jun-01 | FSA Slide | Normal | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| Jun-03 | FSA Slide | Normal | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| 06/06/05 | NAIP | Dry | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| 06/12/06 | NAIP | Wet | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| 07/05/08 | NAIP | Normal | NV NSS | NV NSS | SS | NV NSS | NV NSS | | | | |
| 07/01/10 | NAIP | Wet | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| 07/05/13 | NAIP | Wet | DO | CS | CS | CS DO | NV NSS | | | | |
| 10/11/15 | NAIP | Wet | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| 09/23/17 | NAIP | Normal | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| 09/17/18 | NAIP | Wet | SS | SS | SS | SS | SS | | | | |
| 08/04/20 | NAIP | Normal | NV NSS | CS | CS WS | CS | NV NSS | | | | |
| 06/24/22 | NAIP | Normal | NV NSS | NV NSS | NV NSS | NV NSS | NV NSS | | | | |
| Normal Climate Condition | | Area: 1 (P7) | Area: 2 (P8) | Area: 3 (P11, P12, P13) | Area: 4 (P6) | Area: 5 (P10) | | | | | |
| | | Number | 11 | 11 | 11 | 11 | 11 | | | | |
| | Numbe | r with wet signatures | 4 | 4 | 4 | 1 | 0 | | | | |
| Percent with wet signatures | | 36% | 36% | 36% | 9% | 0% | | | | | |

| Кеу | | | | | | | | |
|---------------------------|--|----------------------|---------------------------------|--|--|--|--|--|
| WS - Wetland Signature | | CS - Crop Stress | | | | | | |
| NC - Not Cropped | | AP - Altered Pattern | NV - Normal Vegetative Cover | | | | | |
| DO - Drowned Out | | SW - Standing Water | NSS - No Soil Wetness Signature | | | | | |
| Other labels or comments: | | | | | | | | |

[•] Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate If alternate labels are used, indicate in box above.

[•] If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

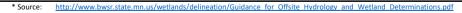






TABLE A1

Wetland Hydrology from Aerial Imagery - Recording Form*

| Project Name: | 152 Acres Site - Eagle | Date: 7/29/2024 | _ | County: | Waukesha |
|---------------|------------------------|------------------------------|------------|-------------|----------------|
| Investigator: | Eric C. Parker, SPWS | Legal Description (T, R, S): | <u>T5N</u> | <u>R17E</u> | <u>Sec. 27</u> |

Summary Table

| | | | • | mary rable In | nage Interpretation(| (s) | | | |
|-----------------------------|---------------------|-----------------------|---|------------------|----------------------|---------|---|--|--|
| Date Image | Image Source | Climate Condition | See Signature Areas Map for general outlines of Areas 1-8 | | | | | | |
| Taken (M-Y) | | (wet, dry, normal) | Area: 6 (P14) | Area: 7 (P5) | Area: 8 (P3) | | | | |
| Jun-95 | FSA Slide | Normal | NV NSS | SS | NV NSS | | | | |
| Aug-96 | FSA Slide | Normal | NV NSS | NV NSS | DO SS WS | | | | |
| Jun-97 | FSA Slide | Normal | SS | SS | NV NSS | | | | |
| Jun-98 | FSA Slide | Normal | NV NSS | NV NSS | SS CS | | | | |
| Jun-99 | FSA Slide | Wet | NV NSS | NV NSS | SS | | | | |
| Jun-00 | FSA Slide | Normal | NV NSS | NV NSS | SS SW | | | | |
| Jun-01 | FSA Slide | Normal | NV NSS | NV NSS | SS | | | | |
| Jun-03 | FSA Slide | Normal | NV NSS | NV NSS | NV NSS | | | | |
| 06/06/05 | NAIP | Dry | NV NSS | NV NSS | SS | | | | |
| 06/12/06 | NAIP | Wet | NV NSS | NV NSS | SS | | | | |
| 07/05/08 | NAIP | Normal | NV NSS | SS | SS | | | | |
| 07/01/10 | NAIP | Wet | NV NSS | NV NSS | SS CS | | | | |
| 07/05/13 | NAIP | Wet | CS SS | SS | CS | | | | |
| 10/11/15 | NAIP | Normal | NV NSS | NV NSS | NV NSS | | | | |
| 09/23/17 | NAIP | Normal | NV NSS | CS | CS SS | | | | |
| 09/17/18 | NAIP | Wet | NV NSS | NV NSS | SS DO NC | | | | |
| 08/04/20 | NAIP | Normal | NV NSS | CS | WS NC | | | | |
| 06/24/22 | NAIP | Normal | NV NSS | NV NSS | NC SS | | | | |
| | Normal Climate Cond | lition | Area: 6 (P14) | Area: 7 (P5) | Area: 8 (P3) | 0 | 0 | | |
| | | Number | 12 | 12 | 12 | | | | |
| | Numbe | r with wet signatures | 1 | 5 | 7 | | | | |
| Percent with wet signatures | | 8% | 42% | 58% | #DIV/0! | #DIV/0! | | | |

| Key | | | | | | | | |
|--|--|-----------------------------|---------------------------------|--|--|--|--|--|
| WS - Wetland Signature | | SS - Soil Wetness Signature | CS - Crop Stress | | | | | |
| NC - Not Cropped | | AP - Altered Pattern | NV - Normal Vegetative Cover | | | | | |
| DO - Drowned Out | | SW - Standing Water | NSS - No Soil Wetness Signature | | | | | |
| Other labels or comments: Altered planting pattern in Area 1 in 2020 is not likely due to wetness. | | | | | | | | |

[•] Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.

[•] If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.







| Field data sheet reference (if application | ble): |
|--|-------|
|--|-------|

Wetland Determination from Aerial Imagery - Recording Form*

| Project Name: | 152 Acres Site - Eagle | Date: | 7/29/2024 | | County: | Waukesha | |
|---------------|------------------------|-------|-----------------------------|------------|-------------|----------|---|
| Investigator: | Eric Parker | Le | egal Description (T, R, S): | <u>T5N</u> | R17E | Sec. 27 | - |

Use the decision matrix below to create Table A2

| Hydric Soils Present? ¹ | Identified on NWI or WWI? ² | Percent with Wet Signatures from TABLE A1 | Field Verification Required? ³ | Wetland? |
|---------------------------------------|---|---|---|--|
| Yes | Yes | >50% | No | Yes |
| Yes | Yes | 30-50% | No | Yes |
| Yes | Yes | <30% | Yes | Yes, if other hydrology indicators are present |
| Yes | No | >50% | No | Yes |
| Yes | No | 30-50% | Yes | Yes, if other hydrology indicators are present |
| Yes | No | <30% | No | No |
| No | Yes | >50% | No | Yes |
| No | Yes | 30-50% | No | Yes |
| No | Yes | <30% | No | No |
| No | No | >50% | Yes | Yes, if other hydrology indicators are present |
| No | No | 30-50% | Yes | Yes, if other hydrology indicators are present |
| No | No | <30% | No | No |

¹The presence of hydric soils can be determined from the "Hydric Rating by Map Unit Feature" under "Land Classifications" from the Web Soil Survey. "Not Hydric" is the only category considered to not have hydric soils. Field sampling for the presence/absence of hydric soil indicators can be used in lieu of the hydric rating if appropriately documented by providing completed field data sheets.

TABLE A2

| Area | Hydric Soils Present? ¹ | Identified on NWI or WWI? | from TABLE A1 Indicators Pr | | Wetland? |
|------|---------------------------------------|---------------------------|-----------------------------|-----|----------|
| 1 | No | No | 36% | No | No |
| 2 | No | No | 36% | No | No |
| 3 | No | No | 36% | No | No |
| 4 | No | No | 9% | No | No |
| 5 | No | No | 0% | No | No |
| 6 | No | No | 8% | No | No |
| 7 | No | No | 42% | No | No |
| 8 | Yes | Yes | 58% | Yes | Yes |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

 $^{^{\}rm 1}$ Answer "N/A" if field verification is not required and was not conducted.

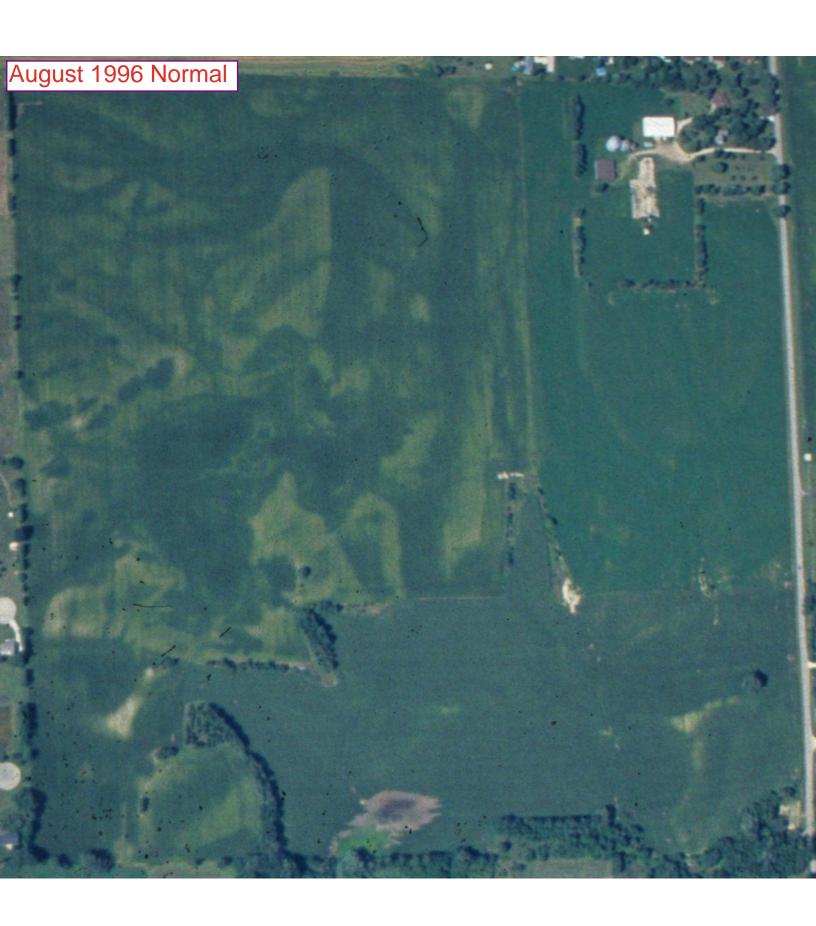


² At minimum, the most updated NWI data available for the area must be reviewed for this step. Any and all other local or regional wetland maps that are publically available should be reviewed.

³ Area should be reviewed in the field for the presence/absence of wetland hydrology indicators per the applicable 87 Manual Regional Supplement, including the D2 indicator (geomorphic position).















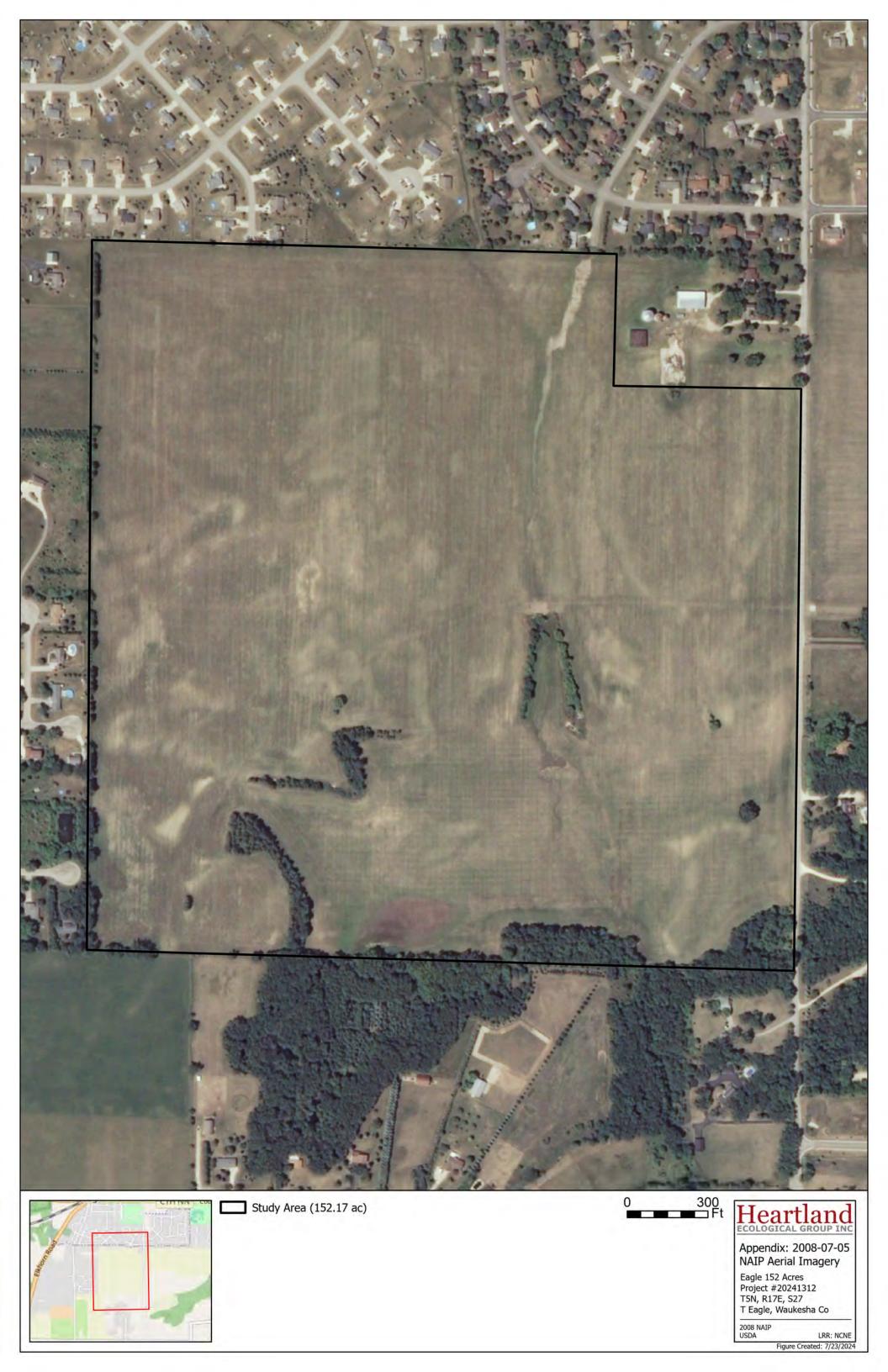


June 2003 Normal













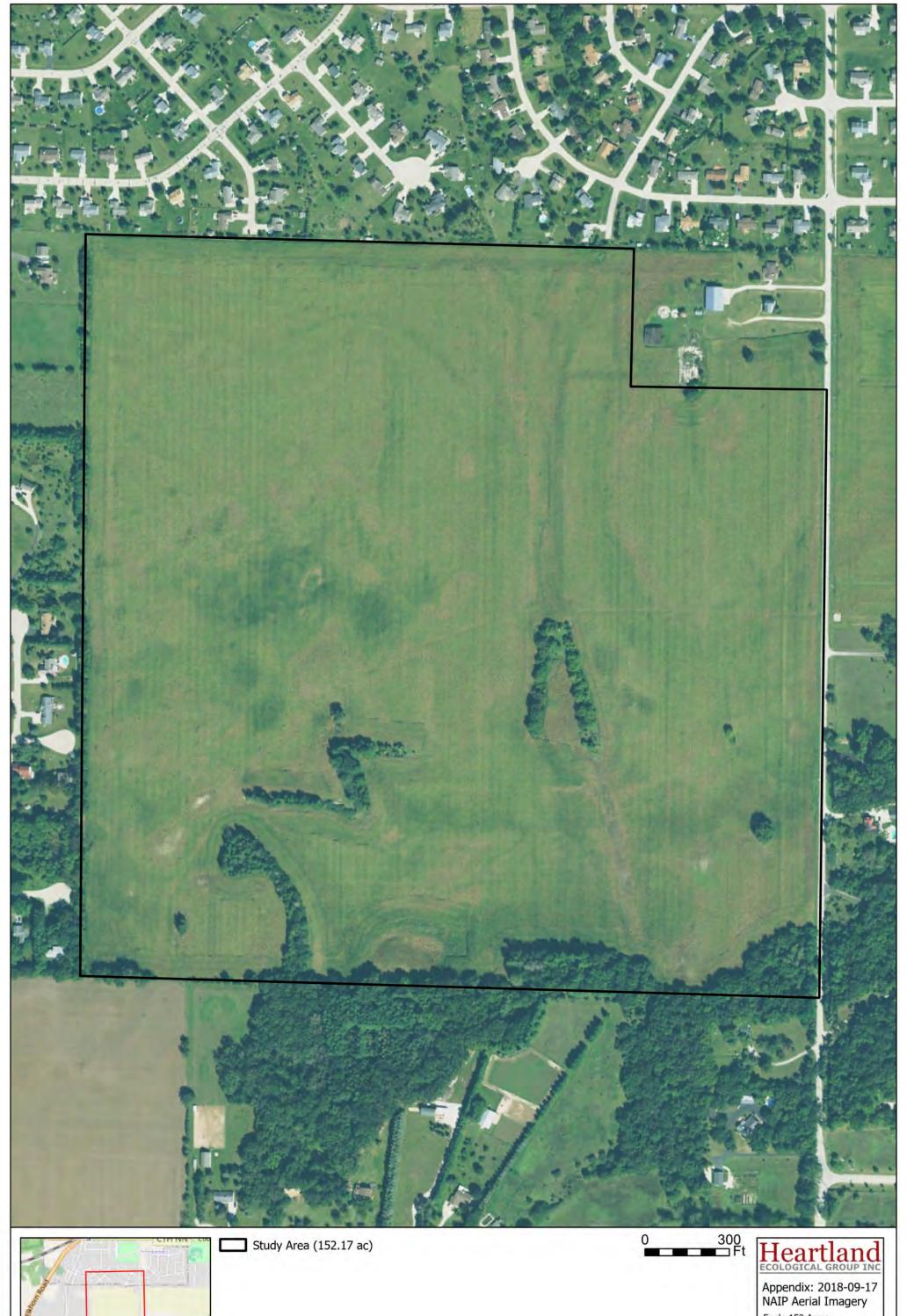




Appendix: 2017-09-23 NAIP Aerial Imagery

Eagle 152 Acres Project #20241312 T5N, R17E, S27 T Eagle, Waukesha Co

2017 NAIP USDA



Eagle 152 Acres Project #20241312 T5N, R17E, S27 T Eagle, Waukesha Co

2018 NAIP USDA



2020 NAIP USDA LRR: NCNE Figure Created: 7/23/2024



June Aerial Imagery

Off-Site Aerial Imagery Analysis

| | | | Monthly Rain | fall in Inches 1 | | | | |
|------------------------|-------|--------------------|--------------|--------------------|------|--------------------|-----------------|---------------------|
| Date | March | Weighted Precip | April | Weighted Precip | May | Weighted Precip | Weighted Sum | Relative Wetness |
| Jun 1995 FSA Slide | 1.74 | 2 | 4.15 | 4 | 3.14 | 6 | 12 | Normal |
| Jun 1997 FSA Slide | 1.36 | 2 | 1.48 | 2 | 3.45 | 6 | 10 | Normal |
| Jun 1998 FSA Slide | 4.30 | 3 | 3.64 | 4 | 3.72 | 6 | 13 | Normal |
| Jun 1999 FSA Slide | 0.73 | 1 | 6.38 | 6 | 5.23 | 9 | 16 | Wet |
| Jun 2000 FSA Slide | 1.13 | 1 | 2.84 | 4 | 8.54 | 9 | 14 | Normal |
| Jun 2001 FSA Slide | 0.38 | 1 | 3.80 | 4 | 4.79 | 6 | 11 | Normal |
| Jun 2003 FSA Slide | 1.44 | 2 | 1.97 | 2 | 7.14 | 9 | 13 | Normal |
| 6-Jun-05 | 1.18 | 1 | 1.32 | 2 | 4.03 | 6 | 9 | Dry |
| 12-Jun-06 | 3.89 | 3 | 4.30 | 6 | 5.70 | 9 | 18 | Wet |
| 30% chance less than** | 1.24 | | 2.60 | | 2.82 | | | |
| 30 Year Average** | 2.09 | | 3.62 | | 4.10 | | | |
| 30% chance more than** | 2.54 | | 4.28 | | 4.88 | | | |

July Aerial Imagery

Off-Site Aerial Imagery Analysis

| Date | April | Weighted Precip | May | Weighted Precip | June | Weighted Precip | Weighted Sum | Relative Wetness |
|------------------------|-------|--------------------|------|--------------------|-------|--------------------|-----------------|---------------------|
| 5-Jul-08 | 6.53 | 3 | 1.65 | 2 | 11.56 | 9 | 14 | Normal |
| 1-Jul-10 | 4.88 | 3 | 3.74 | 4 | 10.45 | 9 | 16 | Wet |
| 5-Jul-13 | 7.57 | 3 | 7.24 | 6 | 7.29 | 9 | 18 | Wet |
| 24-Jun-22 | 4.58 | 3 | 2.86 | 4 | 3.48 | 6 | 13 | Normal |
| 30% chance less than** | 2.60 | | 2.82 | | 3.00 | | | |
| 30 Year Average** | 3.62 | | 4.10 | | 4.84 | | | |
| 30% chance more than** | 4.28 | | 4.88 | | 5.85 | | | |

August Aerial Imagery

Off-Site Aerial Imagery Analysis

| Date | May | Weighted Precip | June | Weighted Precip | July | Weighted Precip | Weighted Sum | Relative Wetness |
|------------------------|------|--------------------|------|--------------------|------|--------------------|-----------------|---------------------|
| Aug 1996 FSA Slide | 2.50 | 1 | 8.69 | 6 | 2.86 | 3 | 10 | Normal |
| 4-Aug-20 | 4.55 | 2 | 2.88 | 2 | 4.82 | 9 | 13 | Normal |
| 30% chance less than** | 2.82 | | 3.00 | | 2.89 | | | |
| 30 Year Average** | 4.10 | | 4.84 | | 4.01 | | | |
| 30% chance more than** | 4.88 | | 5.85 | | 4.73 | | | |

September Aerial Imagery Off-Site Aerial Imagery Analysis

| on one richan magery | | | | infall in Inches 1 | | | | |
|------------------------|------|----------|------|--------------------|--------|----------|----------|----------|
| | | | | | | | | |
| Date | June | Weighted | July | Weighted | August | Weighted | Weighted | Relative |
| Date | June | Precip | July | Precip | August | Precip | Sum | Wetness |
| 17-Sep-18 | 6.62 | 3 | 2.94 | 4 | 9.03 | 9 | 16 | Wet |
| 30% chance less than** | 3.00 | | 2.89 | | 2.84 | | | |
| 30 Year Average** | 4.84 | | 4.01 | | 4.34 | | | |
| 30% chance more than** | 5.85 | | 4.73 | | 5.22 | | | |

Oconomowoc Waste Water Treatment Plant Weather Station 30-Year Precipitation Data (1993-2022) from NOAA Website http://agacis.rcc-acis.org/

October Aerial Imagery

Off-Site Aerial Imagery Analysis

| Date | July | Weighted Precip August Precip S | | September | Weighted Precip | Weighted Sum | Relative Wetness | |
|------------------------|------|---------------------------------|------|-----------|--------------------|-----------------|---------------------|--------|
| 11-Oct-15 | 3.14 | 2 | 3.11 | 4 | 6.21 | 9 | 15 | Wet |
| 23-Sep-17 | 7.27 | 3 | 2.90 | 4 | 0.40 | 3 | 10 | Normal |
| 1-Oct-18 | 2.94 | 2 | 9.03 | 6 | 5.15 | 9 | 17 | Wet |
| 30% chance less than** | 2.89 | | 2.84 | | 1.96 | | | |
| 30 Year Average** | 4.01 | | 4.34 | | 3.25 | | | |
| 30% chance more than** | 4.73 | | 5.22 | | 3.94 | | | |

| WETS Station: OCONOMOWOC WWTP, WI | | | | | | | | | | | | | |
|---|-----------------------------|-------------------------------|-------------------------------|---------------|--------------------------------------|--------------------------------------|---|-----------------|----------|----------|------|-----------|-----------|
| Requested years: 1994 - 2023 | | | | | | | | | | | | | |
| Month | Avg Max Temp | Avg Min Temp | Avg Mean Temp | Avg Precip | 30% chance precip less than | 30% chance precip more than | Avg number days precip 0.10 or more | Avg Snowfall | | | | | |
| Jan | 27.8 | 11.2 | 19.5 | 1.64 | 1.06 | 1.97 | 5 | 11.3 | | | | | |
| Feb | 31.2 | 13.1 | 22.1 | 1.69 | 0.99 | 2.05 | 4 | 9.6 | | | | | |
| Mar | 43.6 | 24.5 | 34.1 | 2.09 | 1.24 | 2.54 | 5 | 5.0 | | | | | |
| Apr | 56.2 | 35.7 | 46.0 | 3.62 | 2.60 | 4.28 | 7 | 1.8 | | | | | |
| May | 68.1 | 47.1 | 57.6 | 4.10 | 2.82 | 4.88 | 8 | 0.2 | | | | | |
| Jun | 78.3 | 57.2 | 67.8 | 4.84 | 3.00 | 5.85 | 8 | 0.0 | | | | | |
| Jul | 82.1 | 61.3 | 71.7 | 4.01 | 2.89 | 4.73 | 6 | 0.0 | | | | | |
| Aug | 80.5 | 60.0 | 70.2 | 4.34 | 2.84 | 5.22 | 7 | 0.0 | | | | | |
| Sep | 74.2 | 52.2 | 63.2 | 3.25 | 1.96 | 3.94 | 6 | 0.0 | | | | | |
| Oct | 60.8 | 40.3 | 50.5 | 2.83 | 1.76 | 3.42 | 6 | 0.1 | | | | | |
| Nov | 46.3 | 28.8 | 37.6 | 2.07 | 1.29 | 2.51 | 5 | 1.9 | | | | | |
| Dec Annual: | 33.7 | 18.6 | 26.2 | 1.90 | 1.29 33.26 | 2.27 39.12 | 5 | 9.7 | | | | | |
| | 56.9 | 37.5 | 47.2 | _ | 33.20 | 39.12 | - | - | | | | | |
| Average Total | - | - | - | 36.40 | - | - | 72 | 39.5 | | | | | |
| Total | | | | 30.40 | | | 12 | 39.3 | | | | | |
| GROWING SEASON DATES | | | | | | | | | | | | | |
| Years with missing data: | 24 deg = 3 | 28 deg = 3 | 32 deg = 2 | | | | | | | | | | |
| Years with no occurrence: | 24 deg = 0 | 28 deg = 0 | 32 deg = 0 | | | | | | | | | | |
| Data years used: | 24 deg = 27 | 28 deg = 27 | 32 deg = 28 | | | | | | | | | | |
| Probability | 24 F or higher | 28 F or higher | 32 F or higher | | | | | | | | | | |
| 50 percent * | 4/5 to 11/3: 212 days | 4/20 to 10/20: 183 days | 5/2 to 10/11: 162 days | | | | | | | | | | |
| 70 percent * | 4/1 to 11/8: 221 days | 4/16 to 10/25: 192 days | 4/29 to 10/15: 169 days | | | | | | | | | | |
| * Percent chance of the growing season occurring between the Beginning and Ending dates. | | | | | | | | | | | | | |
| STATS TABLE - total precipitation (inches) | | | | | | | | | | | | | |
| Yr | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annl |
| 1893 | 1.69 | 0.93 | 1.77 | 5.85 | 1.72 | 4.46 | 3.53 | 1.28 | 2. 94 | 2. 45 | 1.24 | M1. 51 | 29. 37 |
| 1894 | 1.52 | 0.55 | 1.53 | 3.10 | 3.67 | 2.57 | 0.96 | 0.46 | 7. 51 | 1. 98 | 2.03 | 0.61 | 26. 49 |
| 1895 | M1.76 | 0.23 | M0.50 | 0.61 | 4.82 | 1.30 | 1.65 | 3.22 | 1. 43 | 0. 63 | 1.81 | M0. 94 | 18. 90 |
| 1896 | 0.64 | 0.44 | 1.30 | 5.29 | 3.65 | 1.91 | 3.75 | 2.30 | 5. 85 | | | | 25. 13 |
| 1897 | | | | | | | | | | | | | |
| 1898 | | | | | | | | | | | | | |
| 1899 | | | | | | | | | | | | | |
| 1900 | | | | | | | | | | | | | |
| 1901 | | | | | | | | | | | | | |
| 1902 | | | | | | | | | | | | | |
| 1903 | | | | | | | | | | | | | |
| 1904 | | | | | | | | | | | | | |

| 1989 | 0.59 | 0.51 | 2.14 | 1.98 | 3.53 | 2.60 | 7.76 | 5.93 | 1. 63 | 1. 54 | 1.13 | 0.27 | 29. 61 |
|------|------|-------|------|------|-------|-------|------|-------|----------|----------|------|------|-----------|
| 1990 | 1.80 | M1.38 | 2.85 | 1.98 | 5.49 | 5.84 | 1.99 | 4.02 | 1. 96 | 2. 59 | 2.28 | 2.60 | 34. 78 |
| 1991 | 1.11 | 0.33 | 3.70 | 3.97 | 2.35 | 4.53 | 3.75 | 2.26 | 6. 76 | 5. 39 | 3.42 | 1.24 | 38. 81 |
| 1992 | 0.88 | 1.33 | 2.34 | 2.82 | 0.93 | 1.55 | 4.30 | 3.74 | 6. 69 | 1. 26 | 3.86 | 2.16 | 31. 86 |
| 1993 | 1.96 | 0.89 | 1.55 | 7.14 | 3.46 | 6.59 | 5.33 | 3.20 | 5. 26 | 0. 93 | 1.60 | 0.49 | 38. 40 |
| 1994 | 1.62 | 2.62 | 0.83 | 1.26 | 1.30 | 4.20 | 6.36 | 4.06 | 1. 56 | 0. 63 | 3.21 | 0.97 | 28. 62 |
| 1995 | 1.78 | 0.13 | 1.74 | 4.15 | 3.14 | 0.62 | 3.20 | 11.39 | 1. 31 | 4. 54 | 3.11 | 0.66 | 35. 77 |
| 1996 | 1.96 | 0.50 | 0.54 | 3.10 | 2.50 | 8.69 | 2.86 | 3.42 | 1. 61 | 4. 03 | 0.79 | 1.52 | 31. 52 |
| 1997 | 1.68 | 3.02 | 1.36 | 1.48 | 3.45 | 5.26 | 6.13 | 5.60 | 1. 63 | 1. 04 | 0.98 | 1.15 | 32. 78 |
| 1998 | 2.47 | 1.90 | 4.30 | 3.64 | 3.72 | 5.16 | 2.94 | 7.48 | 1. 54 | 4. 44 | 1.76 | 0.99 | 40. 34 |
| 1999 | 3.46 | 0.73 | 0.73 | 6.38 | 5.23 | 6.10 | 5.72 | 1.82 | 3. 48 | 0. 92 | 1.39 | 1.96 | 37. 92 |
| 2000 | 0.83 | 1.82 | 1.13 | 2.84 | 8.54 | 4.78 | 5.80 | 4.91 | 5. 02 | 1. 02 | 2.50 | 2.03 | 41. 22 |
| 2001 | 1.20 | 2.95 | 0.38 | 3.80 | 4.79 | 4.61 | 2.08 | 5.80 | 6. 09 | 3. 81 | 1.53 | 1.40 | 38. 44 |
| 2002 | 0.86 | 1.88 | 1.64 | 4.15 | 2.48 | 4.63 | 2.39 | 4.18 | 3. 59 | 3. 41 | 0.66 | 0.70 | 30. 57 |
| 2003 | 0.25 | 0.39 | 1.44 | 1.97 | 7.14 | 2.56 | 2.97 | 3.22 | 3. 96 | 1. 93 | 4.99 | 2.07 | 32. 89 |
| 2004 | 0.82 | 0.96 | 3.84 | 2.43 | 10.40 | 3.23 | 2.68 | 5.55 | 0. 28 | 2. 03 | 2.25 | 1.29 | 35. 76 |
| 2005 | 3.30 | 2.20 | 1.18 | 1.32 | 4.03 | 1.67 | 3.70 | 1.69 | 2. 92 | 0. 39 | 4.35 | 1.26 | 28. 01 |
| 2006 | 3.11 | 1.38 | 3.89 | 4.30 | 5.70 | 3.38 | 2.98 | 4.20 | 4. 70 | 4. 87 | 2.25 | 2.35 | 43. 11 |
| 2007 | 1.07 | 2.18 | 2.41 | 5.43 | 1.78 | 2.67 | 2.84 | 10.72 | 1. 82 | 2. 29 | 0.34 | 3.94 | 37. 49 |
| 2008 | 2.20 | 3.31 | 2.24 | 6.53 | 1.65 | 11.56 | 5.41 | 0.88 | 3. 49 | 2. 51 | 1.41 | 4.63 | 45. 82 |
| 2009 | 0.82 | 1.87 | 4.64 | 4.82 | 4.07 | 4.51 | 1.10 | 2.62 | 2. 25 | 4. 26 | 1.52 | 3.22 | 35. 70 |
| 2010 | 0.73 | 1.09 | 0.78 | 4.88 | 3.74 | 10.45 | 9.75 | 1.71 | 3. 22 | 2. 23 | 1.30 | 1.47 | 41. 35 |
| 2011 | 1.10 | 2.56 | 3.02 | 4.02 | 2.70 | 4.04 | 2.75 | 2.15 | 3. 57 | 1. 35 | 3.40 | 2.27 | 32. 93 |
| 2012 | 1.49 | 1.13 | 3.00 | 2.83 | 4.78 | 0.35 | 4.59 | 2.63 | 1. 95 | 4. 80 | 0.66 | 3.23 | 31. 44 |
| 2013 | 3.00 | 2.85 | 2.32 | 6.16 | 7.04 | 6.93 | 5.35 | 2.28 | 2. 18 | 2. 21 | 3.27 | 1.48 | 45. 07 |
| 2014 | 1.15 | 0.92 | 1.09 | 4.44 | 3.90 | 5.72 | 2.07 | 3.28 | 1. 22 | 1. 82 | 2.26 | 0.97 | 28. 84 |
| 2015 | 0.71 | 0.71 | 0.70 | 5.70 | 2.94 | 4.71 | 3.14 | 3.11 | 6. 21 | 1. 12 | 4.22 | 4.94 | 38. 21 |
| 2016 | 0.71 | 0.75 | 3.58 | 1.29 | 2.84 | 7.95 | 3.31 | 5.28 | 5. 26 | 3. 80 | 2.16 | 2.39 | 39. 32 |
| 2017 | 2.21 | 1.18 | 4.01 | 5.49 | 4.61 | 6.24 | 7.27 | 2.90 | 0. 40 | 4. 44 | 1.35 | 0.62 | 40. 72 |
| 2018 | 2.27 | 2.83 | 0.66 | 3.27 | 5.98 | 6.62 | 2.94 | 9.03 | 5. 15 | 5. 03 | 1.80 | 1.66 | 47. 24 |
| 2019 | 2.93 | 2.81 | 0.98 | 3.77 | 4.36 | 3.61 | 4.40 | 3.67 | 5. 84 | 5. 62 | 2.06 | 1.86 | 41. 91 |
| 2020 | 1.67 | 1.08 | 2.98 | 2.48 | 4.68 | 2.82 | 5.27 | 2.21 | 2. 75 | 2. 63 | 1.75 | 1.21 | 31. 53 |
| 2021 | 1.89 | 0.73 | 1.15 | 1.49 | 2.05 | 3.42 | 1.60 | 6.65 | 3. 10 | 2. 51 | 0.38 | 1.91 | 26. 88 |
| 2022 | 0.41 | 0.59 | 3.51 | 3.10 | 2.36 | 6.62 | 5.59 | 4.95 | 7. 17 | 1. 20 | 3.31 | 1.57 | 40. 38 |

| 2023 | 1.50 | 3.64 | 2.62 | 2.22 | 1.08 | 2.11 | 3.13 | 2.91 | 4. 26 | 4. 09 | 1.27 | 1.36 | 30. 19 |
|---|-------|------|------|------|------|------|------|------|----------|----------|------|------|-----------|
| 2024 | 2.46 | 0.81 | 4.92 | 3.60 | 5.38 | 7.89 | 2.76 | 4.06 | 2. 25 | 0. 93 | 2.80 | 0.77 | 38. 63 |
| 2025 | M0.02 | | | | | | | | | | | | 0.02 |
| Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation. | | | | | | | | | | | | | |
| Data missing for all days in a month or year is blank. | | | | | | | | | | | | | |
| 0 1 1 0005 01 01 | | | | | | | | | | | | | |

Creation date: 2025-01-21