Wetland Mitigation Bank Prospectus

Mill Creek Wetland Mitigation Bank

City of New Berlin, Waukesha County, Wisconsin

March 18, 2025

506 Springdale Street | Mount Horeb, WI 53572 | www.heartlandecological.com

Mill Creek Wetland Mitigation Bank

City of New Berlin, Waukesha County, Wisconsin

March 18, 2025

Prepared for:

Austin Workman and Brady Workman
Workman Investments LLC
P.O. Box 510722
New Berlin, WI 53151
workmanenterprises@gmail.com

Prepared by:

Heartland Ecological Group, Inc.
506 Springdale Street
Mount Horeb, WI 53572
608-490-2450
www.heartlandecological.com

Prepared by: Sarah Kraszewski, PWS, Senior Ecologist

Reviewed by: Jeff Kraemer, Principal

Table of Contents

Appendix A - Map Figures

Figure 1. Project Location

Figure 2. Regional Map

Figure 3. Mitigation Service Areas

Figure 4. NRCS Hydric Soils

Figure 5. Wisconsin Wetland Inventory

Figure 6. WDNR Potentially Restorable Wetlands

Figure 7. Contours and DEM Map

Figure 8. Baseline Conditions

Figure 9. Compensation Types & Credit Ratios

Figure 10. Prelim Hydrology Restoration Concept Plan

Figure 11. Adjacent Landowners

Appendix B – Bordner Survey

Appendix C – Historic Aerial Imagery

Appendix D – Title and Easements

Appendix E – Baseline Hydrology Monitoring

Appendix F – Wetland Delineation Report

Appendix G – Adjacent Property Owners Contact Information

1.0 Owner and Agent

1.1 Owner

The proposed compensatory wetland mitigation site is owned by Workman Investments LLC ("Workman" or "Sponsor"), who will also serve as the bank sponsor. Workman Investments is an LLC that holds the property rights.

1.2 Agent

The agent working on behalf of Workman is Heartland Ecological Group ("Heartland"). Heartland is an environmental consulting and ecological restoration firm with its main office in Mount Horeb, Wisconsin.

2.0 Objectives

The goal of the Mill Creek Wetland Mitigation Bank Site (the "Site") is to restore wetland hydrology and native vegetation communities for the purpose of generating compensatory mitigation credits for sale. The Site is located on two parcels which total 102.64 acres, which is depicted as the "Property Boundary" in the attached Figures. The Mitigation Site Limits (the "Site"), which is the focus of wetland mitigation and this document, are in the southern portions of the parcels and total approximately 68.17 acres. Figure 1 depicts the project location and Figure 2 provides a topographic regional view of the Site in relation to roadways, waterways, waterbodies, undeveloped areas, and the nearest airport (Appendix A).

The Wisconsin Land Economic Inventory Maps (the Bordner Survey) prepared for Waukesha County in 1937 depicted the Site as part of a large grass marsh that was surrounded by cleared cropland (Appendix B). The general location of Mill Creek is visible on the sketched map. Based on a review of historic aerial imagery, the Site had been cleared of most trees, was ditched, and was cropped for agricultural land use before 1941 (Appendix C). By 1990, farming ceased in the southwest and northeast corners of the Site and hardwood swamp wetland communities began to establish. Some of the fields were used for sod farming. The Site was utilized as a tree plantation/farm prior to 2005 with large portions of the Site planted with stands of various coniferous and deciduous trees. Remaining fields appeared to be largely utilized for hay. After the 2017 growing season, it appeared that active

maintenance of the fields and the tree plantation rows ceased, and vegetation was left to grow naturally.

The objectives of the Site are to restore wetland hydrology to areas that were historically drained by ditches and tiles for agricultural purposes and to establish native plant communities that are appropriate for the post-restoration hydrologic conditions. The project aims to restore 34.87 acres of wet meadow wetland via re-establishment and 5.14 acres of wet meadow wetland via rehabilitation, enhance 24.29 acres of existing wet meadow and hardwood swamp wetland communities, and restore 3.68 acres of upland buffer to mesic prairie.

3.0 Operation

3.1 Hydrology Restoration

Mill Creek, which is mapped by the Wisconsin Department of Natural Resources (WDNR) as an intermittent stream at this location with Waterbody Identification Code (WBIC) 769700, flows east to west within the southern portion of the Site (Appendix A, Figure 2). The Site contains five interior ditches that run north-south and discharge into Mill Creek. Based on field investigations completed by Heartland during the 2024 growing season, the ditches vary in width and depth and some of the ditches appear to have accumulated silt from lack of maintenance. Heartland mapped the location of 13 tile outlets within Mill Creek, confirming that at least three of the fields have drainage tiles that discharge into Mill Creek. The drain tile outlet mapping was not exhaustive, and a formal drain tile investigation has not been completed. The Sponsor is aware of drainage tiles present at the Site, but does not have a tile map from the previous landowners.

A drainage tile investigation will be conducted to map the approximate locations of existing tile and to understand how these tiles are functioning. The preliminary hydrologic restoration plan for the Site includes disabling all drain tiles within the Site and the complete filling of the five interior north-south running ditches that drain to Mill Creek. It is believed that these actions will raise the water table and allow surface water to be distributed and infiltrate on Site rather than running off in channelized flows through the existing ditch system. The hydrologic restoration is anticipated to hydrate the organic soils throughout most of the Site to restore wetland hydrology and support wetland plant communities.

The Sponsor will work with a qualified engineering firm with water resources capabilities to conduct hydrology modeling to assess current site drainage as well as the drainage that would result from these tile and ditch disablement actions. An off-site impact analysis would be completed for the proposed hydrologic restoration. Mill Creek and the ditches along the eastern and southern perimeters of the Site would remain functional to convey flows and to avoid off-site impacts. Ditches north of the Site would also remain functional and engineering plans would be created for the Site to continue to accept water from these off-site ditches and disperse the flows onto the Site after ditch disablement.

Additional hydrology restoration will be accomplished by removing spoil piles as well as creating some shallow scrapes to provide microtopographic relief and to get the ground surface closer to the water table in locations near ditch bends or slight rises.

3.2 Vegetation Restoration

Native plant communities will be restored at the Site that match proposed hydrologic regimes and our understanding of historic wetland plant communities in the surrounding landscape. Pre-restoration site observations and the results of the hydrology analysis will be used to tailor proposed vegetative communities to the expected post-restoration hydrology. Nearby reference wetlands with similar soils may be evaluated to develop seed lists and establish target vegetative communities.

Vegetation restoration will require removal of trees that were planted for tree plantation/farm purposes, as well as removal of existing invasive species in the herb, shrub, and tree layers. Existing hardwood swamp communities and wet meadow communities will be enhanced by removal of invasive species and the installation of a native wetland seed mix. Wet meadow re-establishment and rehabilitation areas will be seeded with a native wet meadow seed mix and upland buffer areas will be seeded with a native mesic prairie seed mix following removal of existing vegetation and seed bed preparation.

3.3 Establishment Management, Monitoring, and Reporting

All seeded areas within the Site will be managed to encourage the establishment of native vegetation and reduce the presence and spread of invasive species. Management mowing will be used to reduce the presence of annual and biennial weeds and get light to the ground surface to support the establishment of seeded species. Targeted herbicide applications will be used to reduce the presence of perennial invasive species. A prescribed

burn will be conducted approximately three years after seeding to remove thatch, reduce the presence of undesirable herbaceous and woody species, and stimulate native species.

Permanent vegetation sampling plots will be established, and twice-annual vegetation surveys will be performed to assess the achievement of site-specific vegetation performance standards. Shallow groundwater monitoring wells will be used to assess the achievement of hydrology performance standards. Annual monitoring reports will be compiled which summarize the results of vegetation and hydrology monitoring, achievement of performance standards, request credit releases, document management work performed over the previous growing season, and identify the need for adaptive management strategies.

4.0 Service Area

The mitigation site is within the Upper Fox River HUC-8 watershed of the Upper Illinois Bank Service Area (BSA) (Appendix A, Figure 3).

5.0 Need

There is currently one active private wetland mitigation bank, RFD II, within the Upper Illinois BSA. RFD II has released 20% of the credits to date, which were sold shortly after release, and is anticipated to generate up to 20.33 more credits in the future.

The WDNR Wisconsin Wetland Conservation Trust (WWCT) in-lieu fee (ILF) program has sold 47.79 credits, fulfilled 41.05 credits, and had 33.26 credits available within the Upper Illinois BSA as of January 1, 2025. An additional 61.01 WWCT credits were sold within this BSA for company-specific wetland mitigation needs (i.e., Foxconn and Microsoft) that have not been fulfilled.

Heartland reviewed the WWCT *Program Instrument* document (2023 WDNR) to identify wetland resource threats, current trends in habitat loss or conversion, historic loss, and the goals and objectives of prospective wetland restoration projects within the BSA as a whole and within individual HUC-8 watersheds. This document was used to inform a watershed approach to selecting this Site as a suitable wetland mitigation project to address watershed needs. The Upper Illinois BSA was identified as one of the most urbanized service areas in the state and wetland resource threats were considered very high and widespread given it is extremely highly developed and the extent of agricultural land use.

Wetland resource threats identified by the WWCT within the Upper Illinois BSA include:

- Extremely high habitat fragmentation
- Agricultural impacts including ditching, diking, draining, and stream realignment
- Groundwater withdrawal in the northern portion of the BSA (where this project is located) that threatens to deplete groundwater resources
- Establishment and spread of invasive species

Within the Upper Fox River HUC-8, where this Site is located, the greatest estimated percent loss of historic wetland communities is as follows:

- Sedge Meadows / Wet to Wet-Mesic Prairie: 42.60%
- Floodplain Forest: 47.31%
- Wet to Wet-Mesic Prairie: 57.39%

Goals and objectives for the Upper Illinois BSA identified by the WWCT *Program Instrument* include:

- Perform compensatory mitigation in watersheds featuring a high percent loss of historic wetlands and high quantity of potentially restorable wetlands.
- Replace wetland communities that have had the highest historic percent loss or that feature the greatest disturbance pressure from permitted wetland disturbance activities in areas identified within or adjacent to mapped Potentially Restorable Wetland locations. Specific goals and objectives for the Upper Fox River HUC-8 are to restore and enhance sedge meadows, fresh (wet) meadows, wet to wet-mesic prairies, and floodplain forest.

Establishment of the Mill Creek Wetland Mitigation Bank would address the needs of the watershed by:

- Re-establishing wetland communities that have experienced historic loss, specifically wet meadow.
- Rehabilitating and enhancing existing wetland communities that are impacted by artificial drainage and invasive species.
- Converting agricultural land back to native wetland and upland buffer communities to reduce habitat fragmentation and enhance floristic quality, floodwater storage, and groundwater processes. This Site would also expand existing Primary Environmental

Corridor (PEC) as identified by the Southeastern Wisconsin Regional Planning Commission (SEWRPC).

- Creating another private bank source of mitigation credits, thereby reducing temporal loss of wetlands the ILF program has not yet replaced.
- Establishing a mitigation bank within a watershed featuring a high quantity of potentially restorable wetlands.

6.0 Technical Feasibility

The design concept for the mitigation project entails drain tile and interior ditch disablement, removal of spoil piles and creation of shallow scrapes for microtopographic relief, removal of existing invasive vegetation, planting native vegetation appropriate for the expected post-restoration hydrology, and managing the Site to encourage the establishment of native plant communities. The concept plan is typical of wetland restoration projects that utilize ditch filling and tile disablement to restore wetland hydrology within artificially drained hydric soils. Because the Site had been most recently used as a tree plantation/farm and has been unmaintained in recent years, vegetation restoration within the Site will require more site preparation than sites that are under active row cropping prior to hydrologic restoration. It is anticipated that two years of seed bed preparation will be needed to remove plantation trees and invasive vegetation prior to hydrologic restoration and native seed installation.

The development of a successful mitigation bank is feasible at this Site for the following reasons:

- Soils at the Site are primarily mapped as Houghton muck (Hta) with a small component of Ogden muck (Oc), both of which are considered hydric and very poorly drained soils (Appendix A, Figure 4)
- Drain tiles and interior ditches can be disabled to restore wetland hydrology within these hydric soils.
- The Wisconsin Wetland Inventory (WWI) (Appendix A, Figure 5) depicts wetlands adjacent to the southern and eastern portions of the Site. Restoring wetland within the Site would create a larger wetland complex that has been historically fragmented by agricultural land use. Additionally, land to the southwest of the Site is part of a conservation subdivision (Kohler Ridge) that has protected wetlands adjacent to the

Site under a conservation easement. Restoring wetlands at the Site would also significantly expand the area designated as PEC that is currently limited to the southwest corner of the Site.

- The WDNR Potentially Restorable Wetlands (PRW) layer indicates that much of the Site is suitable for wetland restoration (Appendix A, Figure 6).
- The Site is relatively flat and within a low area of the overall landscape (Appendix A, Figure 7). Hydrologic restoration will allow the organic soils to maintain a high water table and support wetland conditions.
- A search for nearby airports was performed to assess potential Federal Aviation Administration ("FAA") conflicts within a 5-mile radius buffer from the Site. A small, private airstrip is located approx. 2.04 miles to the northeast of the Site and a hospital, presumably with a helicopter pad, is located just outside the 5-mile buffer to the northwest of the Site (Appendix A, Figure 2). Wetland mitigation at this Site is not anticipated to have conflicts with aviation due to the distances to the nearest airports and because open water communities are not proposed.
- Heartland coordinated with the State Historic Preservation Office (SHPO) and there is no information on archaeological surveys, historic buildings, archaeological sites, or burial sites within the Site.
- No known encumbrances have been identified that limit or negatively affect the compensation site goals (Appendix D).
- Workman, the Sponsor and landowner, has the equipment, staff, and experience to conduct many of the earthwork and maintenance components for the project and has their main yard located nearby in New Berlin. See Chapter 8.0 for additional qualification information.
- Heartland, the agent for the project, has a proven history of guiding mitigation projects through the regulatory approval process, successfully establishing and managing native vegetative communities, and fulfilling the required vegetation and hydrology monitoring and reporting. See Chapter 8.0 for additional qualification information.

7.0 Ownership and Long-Term Management

The Site is currently owned and managed by Workman. Title and easement information for the two parcels that comprise the entire 102.64-acre property are provided in Appendix D.

All easements for overhead electric lines, access, and a holding tank appear to be related to the northern portions of the property that are outside of the mitigation project boundary, or Site.

Workman is committed to long-term management of the Site. Long term management activities will include invasive species control and general maintenance to sustain the functional value gains of the project in the long-term. Workman proposes to place a conservation easement on the Site to permanently protect and preserve the Site and is committed to maintaining the land in accordance with the conservation easement.

8.0 Qualifications

The bank sponsor is Workman Investments LLC (Workman). The mitigation bank plan developers include wetland scientists and restoration ecologists from Heartland Ecological Group, Inc. (Heartland). Workman will contract with an engineering firm to conduct hydrology modeling and restoration design. This firm will be responsible for providing predictive modeling of the expected post-restoration hydrology and analysis of potential off-site water-related impacts.

Workman has been in business for 14 years. Austin Workman and Brady Workman are the company representatives for the wetland mitigation project. Workman has been involved in a vast array of municipal projects from trails, parks, bioswales with native plant establishments, and streambank restoration, in addition to other grading and excavating projects. This company has a variety of equipment types, including low ground pressure equipment for working in sensitive environments. Workman is equipped to conduct many of the site preparation, implementation, and maintenance tasks needed for the wetland mitigation bank site including removal of undesirable woody vegetation, grading to remove spoil piles and create microtopographic depressions, ditch disablement, and maintenance mowing. With their main yard located in New Berlin, Workman can keep a close eye on the mitigation site development and can quickly mobilize equipment or resources.

Heartland is an environmental consulting and ecological restoration company that specializes in the assessment, mapping, restoration, and application of regulatory policies related to wetlands, streams, and other natural resources. Heartland staff have been involved in planning and development and/or monitoring and management of several

mitigation sites, including the closed-out Upper French Creek Mitigation Site (Ashley Furniture) in Trempealeau County and the Guardian II Wetland Mitigation Site (Oneok) located in Winnebago County. Heartland currently performs mitigation monitoring and vegetation management for two WWCT-sponsored ILF sites (Soik and Evansville) and one private site (RFD II Wetland Mitigation Bank). Heartland additionally led the prospectus phase, baseline site assessments, hydrology monitoring, site design, and CSP/MBI development for the Big Hollow Mitigation Bank Site (not yet constructed) and the Rock Creek Wetland Mitigation Bank Site (currently in the final CSP/MBI stage) and has conducted invasive species management for an additional four constructed sites in Wisconsin. Heartland staff anticipated to support the project include:

Jeff Kraemer is the founder of Heartland and has over 20 years of experience as an environmental consultant, ecological and regulatory policy practitioner, and managing business leader. He is a recognized expert in the field of wetland ecology and delineation, wetland restoration and mitigation banking, and regulatory policy and permitting associated with wetlands and waterways. Jeff has served as the project manager and technical lead on numerous wetland restoration and wetland mitigation projects throughout Wisconsin.

Sarah Kraszewski is a senior ecologist and Professional Wetland Scientist (PWS) with over 15 years of experience overseeing wetland mitigation planning and design, leading restoration crew implementation, and/or conducting vegetation monitoring, hydrology analysis, and mitigation monitoring reporting for over 15 wetland mitigation bank sites in the Midwest. Sarah provides project-specific restoration plans tailored to a site's unique characteristics and adapts management strategies as sites evolve over time.

Scott Fuchs is an environmental scientist and state-assured wetland delineator. Scott's experience includes wetland delineation and assessment, wetland and waterway permitting, vegetation and hydrology monitoring, preparing compensation site plans, preparing mitigation reports, and GIS. Scott has drafted approved compensation site plans for the Evansville ILF site and the Big Hollow Mitigation Bank (not yet constructed). He currently leads vegetation and hydrology monitoring and reporting for the Evansville and Soik ILF sites.

Matt Stangel is an environmental scientist and state-assured wetland delineator. Matt's experience includes wetland delineation and assessment, wetland and waterway permitting, vegetation monitoring, and GIS.

Wes Ellarson is an environmental scientist and restorations operations manager with a passion for hands-on land management. Wes's experience includes habitat improvement planning and implementation, leading restoration field crews, serving as a burn boss, and the operation of tractors, forestry mowers, skid steers, and chainsaws for restoration implementation.

9.0 Ecological Suitability

The Site has the potential to significantly restore wetland acreage while providing vegetative, habitat, and hydrologic improvements to existing wetland acreage. The Bordner Survey indicates that the Site was historically part of a large herbaceous wetland complex (Appendix B). Based on a historical imagery review (Appendix C), the Site was drained via multiple ditches and has an extensive history of agricultural production for crops, hay, and more recently as a tree plantation/farm.

9.1 NRCS Soils

According to the USDA NRCS soil survey data (Appendix A, Figure 4) approximately 67 acres, or 98% of the Site, consists of hydric or predominantly hydric soil units. Houghton muck (HtA) and Ogden muck (Oc) comprise over 90% of the mapped soils at the Site and are considered 100% hydric. Pella silt loam (Ph) comprises approximately 7% of the Site and is considered predominantly hydric (or 87% hydric). The remaining 1.5 acres, or approximately 2% of the Site, consist of Martinton silt loam (MgA), which is considered predominantly non-hydric (or 7% hydric).

The NRCS soil series descriptions of the Houghton and Ogden muck soil units note very poorly drained soils with a depth to water table about 0-4 inches from the soil surface. The soil profile for Houghton muck consists of muck up to 79 inches in depth; whereas Ogden muck consists of 0-24 inches of muck underlain by silty clay. Pella silt loam is considered poorly drained, the water table is near the soil surface, and a typical profile consists of silt loam underlain by silty clay loam.

9.2 2024 Field Assessments

9.2.1 Hydrology Monitoring

Heartland installed six shallow groundwater monitoring wells (MW1-MW6) prior to the start of the 2024 growing season to assess baseline hydrology. Groundwater monitoring was also

conducted to provide additional water table data to supplement field data collected for the wetland delineation due to the presence of hydric soils throughout most of the Site. Wells were installed beyond the anticipated influence of the ditches (Appendix A, Figure 8). Wells were installed in accordance with the *Technical Standard for Water-Table Monitoring of Potential Wetland Sites* (USACE 2005). Soil profiles taken at well locations consisted of 12-18 inches of muck underlain by peat that extended to at least 36 inches in depth, except for the location of MW2 for which silty clay was encountered below the organic layers at a depth of 26 inches. MW2 was shortened to stay within the organic soil layer and did not penetrate the underlying mineral soil.

Each well was fitted with a dedicated HOBO® water level data logger that was set to record hourly pressure-based measurements on March 25, 2024, near the start of the growing season. Data loggers were downloaded three times during the growing season. Manual depth to water measurements were collected during each download to calibrate and serve as a comparison to pressure data collected by the water level data loggers. Data loggers were removed from the wells on November 5, 2024, prior to the end of the growing season. The data logger for MW5 broke after the download on August 23, 2024.

Precipitation data, representative of conditions at the Site, were obtained from the Waukesha WWTP weather station in Waukesha County (AgACIS 2024). Average precipitation and snowfall values were also obtained from this weather station WETS Table, which provides monthly averages based on National Weather Service 30-year precipitation data records from 1994-2023 (AgACIS 2024). Antecedent precipitation analysis was completed using the 30-day rolling total calculation to compare precipitation in 2024 to the normal range (Appendix E, Chart 1; Sprecher and Warne 2000). In general, total precipitation accumulation during the growing season was wetter than normal. The months of March-June and November were wetter than normal, July-September were within the normal range, and October was drier than normal (Appendix E, Table E-1). Winter 2023-2024 snowfall (30.0 inches) was less than the 30-year average of 37.4 inches (Appendix E, Table E-2).

Summary statistics were calculated for water level depths recorded by the data loggers over the monitoring period (March 25-November 5; Appendix E, Tables E-3 and E-4) and hydrographs are depicted for each well (Appendix E, Chart 2). MW1, MW4, and MW6 met the 14-day wetland hydrology standard and had a maximum duration of water table within

12 inches of the soil surface for 81, 81, and 50 days, respectively. The water table was less than 12 inches below the soil surface at MW2, MW3, and MW5 for the entire 2024 growing season. Drain tile outlets were observed in Mill Creek from the fields where these wells are located, and it appears that at least portions of these fields are being effectively drained by tile (Appendix A, Figure 8).

9.2.2 Wetland Delineation and Preliminary Mitigation Feasibility Assessment

Heartland completed an assured wetland delineation at the property on July 26, 2024, and the wetland delineation report is provided in Appendix F. Heartland completed another site visit on August 23, 2024, to collect additional baseline data for preliminary wetland mitigation feasibility purposes.

Hydrology data collected at the monitoring wells was used to inform the wetland delineation in areas that might have drained hydric soil. Delineated wetland boundaries are depicted on Figure 8 (Appendix A). Wetland areas are primarily connected by the ditch network and continue off-site to the southwest, south, and east. An excavated pond (Pond 1) is mapped north of the Site.

Mill Creek and eight other waterways/ditches (WW-1:WW-8) that drain to Mill Creek were mapped within the property (Appendix A, Figure 8). WW-1 is located north of the mitigation project boundary. The ditches and Mill Creek effectively divide the Site into seven cells. Although a comprehensive tile survey was not completed, 13 tile outlets were observed that discharge into Mill Creek. Based on the presence of tile outlets, it is assumed that tiles run north-south through portions of the Site and are effectively draining some of the areas of hydric soil. Several of the ditches (WW-3, WW-4, WW-5, and WW-8) appeared to have been unmaintained and have accumulated silt over time, as evidenced by vegetation growing throughout the channels.

Wetlands consist primarily of degraded wet meadow plant communities with hardwood swamp present in the southwest and northeast portions of the Site. Wetland vegetation is generally low quality and wetlands are degraded by weedy and invasive species including reed canary grass (*Phalaris arundinacea*), stinging nettle (*Urtica dioica*), giant ragweed (*Ambrosia trifida*), and invasive common reed (*Phragmites australis* ssp. *australis*) in the herbaceous layer and common buckthorn (*Rhamnus cathartica*) and box elder (*Acer negundo*) saplings in the shrub layer. Dominant canopy trees in the hardwood swamp communities and along ditch lines included willow (*Salix* spp.), eastern cottonwood (*Populus*

deltoides), and box elder. Vegetation identified at sample points near the wetland boundaries are provided on the wetland data forms (Appendix F).

Multiple tree species were observed in the tree plantation areas including red pine (*Pinus resinosa*), Norway maple (*Acer plantanoides*), red maple (*Acer rubrum*), spruce (*Picea* spp.), elm (*Ulmus* spp.), honey locust (*Gleditsia triacanthos*), American basswood (*Tilia americana*), crab apple and apple (*Malus* spp.), bur oak (*Quercus macrocarpa*), swamp white oak (*Quercus bicolor*), red oak (*Quercus rubra*), plum (*Prunus* sp.), and hackberry (*Celtis occidentalis*). It was unclear if these trees were cultivars or varieties. Planted trees varied in size from an estimated 3-12 inches diameter at breast height (dbh).

The understory in the tree plantations were primarily dominated by hydrophytic weedy species including reed canary grass, stinging nettle, giant ragweed, and common burdock (*Arctium minus*) as well as orange jewelweed (*Impatiens capensis*). Encroaching box elder and common buckthorn were common. The understory in the northwest corner of the Site was drier and typical of an old field community with species such as Canada goldenrod (*Solidago canadensis*), bird's-foot trefoil (*Lotus corniculatus*), Queen Anne's lace (*Daucus carota*), red clover (*Trifolium pratense*), Kentucky bluegrass (*Poa pratensis*), timothy (*Phleum pratense*), and dandelion (*Taraxacum officinale*).

Upland meadow areas were also low quality and hydrophytes were common. Dominant species included reed canary grass, Canada thistle (*Cirsium arvense*), stinging nettle, and purple-stem aster (*Symphyotrichum puniceum*) with encroaching woody vegetation including common buckthorn and box elder.

9.3 Proposed Compensation Types and Vegetative Communities

Proposed plant communities and compensation types were identified based on historic records indicating the area consisted of grass marsh, desktop reviews, historic wetland losses in the watershed, and field observations made during the 2024 field season of soil types, existing wetland areas, vegetation, topography, and drainage (Appendix A, Figure 9). A brief description of each compensation type at the Site is provided below. All restored plant communities will be managed to achieve vegetation performance standards during the mitigation performance period and will be maintained in the long-term to support the functional lift.

Re-Establishment (34.87 acres)

Re-establishment areas were delineated based on the presence of hydric soils and low lying/relatively level topography in areas that do not currently meet wetland criteria; presumably due to the presence of drain tiles and ditches; but will re-establish as wetland plant communities. Re-establishment areas will be restored through a combination of tile and ditch disablement, removal of spoil piles, creation of shallow scrapes to create microtopography, removal of planted trees and existing undesirable vegetation, and native seeding efforts. Wet meadow is currently proposed as the re-establishment plant community; however, it is anticipated that the Site will also support sedge meadow communities in areas that have longer durations of soil saturation or shallow seasonal inundation following hydrologic restoration.

Rehabilitation (5.14 acres)

Rehabilitation areas currently meet wetland criteria and are located within and adjacent to ditches. These areas have low floristic quality. There will be functional lift in both hydrology and vegetation through restoration efforts. Additional wetland rehabilitation areas may be identified following a drain tile investigation if there are existing wetland areas that are being partially drained by tiles. The rehabilitation areas will primarily be restored through ditch filling, disablement of drain tile, removal of planted trees and invasive species, and native seeding efforts. Similar to re-establishment areas, wet meadow is currently proposed as the primary rehabilitation plant community; however, it is anticipated that some of these areas will have longer durations of soil saturation or shallow seasonal inundation following hydrologic restoration and will support sedge meadow communities.

Enhancement (24.29 acres)

Existing wetland areas that will not receive hydrologic lift from drain tile and ditch disablement will be floristically enhanced by invasive species removal and installation of native seed mixes to support native wet meadow and hardwood swamp plant communities. Native, non-invasive trees and shrubs will remain within existing hardwood swamp communities to continue to add heterogeneity and habitat diversity to the Site.

Upland Buffer (3.68 acres)

Upland buffer is delineated in the northwest portion of the Site based on the absence of hydric soils and topography that is not anticipated to support wetland conditions following hydrologic restoration. Existing planted trees and herbaceous vegetation will be removed and a mesic prairie seed mix will be installed. This area will provide a native buffer to the restored wetland plant communities.

9.4 Potential Credit Generation

Table 1 provides potential credits and ratios for proposed plant communities and compensation types at the Site. Compensation type acreages will be updated following drain tile investigations and hydrology modeling. Appropriately sized buffers will be placed around the Site perimeter that would have reduced credit potential but receive the same implementation and management.

Table 1. Mill Creek Wetland Mitigation Bank Potential Credits

Compensation Type	Plant Community	Area (acres)*	Credit Ratio	Projected Credits
Restoration via Re-establishment	Wet Meadow	34.87	1:1	34.87
Restoration via Rehabilitation	Wet Meadow	5.14	0.75:1	3.86
Enhancement	Wet Meadow	18.42	0.33:1	6.08
	Hardwood Swamp	5.87	0.33:1	1.94
Upland Buffer	Prairie	3.68	0.25:1	0.92
Total		**67.98**	**N/A**	**47.66**

*There is approx. 0.25 acre of rounding error within the Site.

10.0 Hydrology

The preliminary hydrologic restoration concept plan is depicted on Figure 10 (Appendix A). The five interior north-south running ditches that discharge to Mill Creek (WW-3, WW4, WW-5, WW-6, and WW-8) are proposed to be filled. Ditches north of the Site would also remain functional and engineering plans would be created for the Site to continue to accept water from these off-site ditches and disperse the flows onto the Site after ditch disablement. The public have rights within land below the ordinary high water mark of Mill Creek. There are no known drainage rights or easements by others within the Site.

Perimeter ditches and Mill Creek will be left intact to convey flows so adjacent properties are not impacted. All drain tiles within the Site are proposed to be disabled. Any proposed ditch and drain tile disablement within the Site will be evaluated to ensure that adjacent landowners are not adversely impacted.

Spoil piles will be removed. Shallow scrapes will be made to create microtopographic relief and to get the soil surface closer to the water table in select areas that will be further identified during the engineering design. A drain tile investigation, field measurements of the ditches, hydrology modelling of existing versus restored conditions, and an off-site impact assessment will be completed during the development of the Compensation Site Plan (CSP).

11.0 Adjacent Property Owner Contact Information

The Site is surrounded by private landowners and homeowners associations (Appendix A, Figure 11). The Sponsor understands that the USACE will solicit public comments on this mitigation Prospectus and will send the public notice to all adjacent property owners. The adjacent property owners' names and mailing addresses are provided in Appendix G.

12.0 References

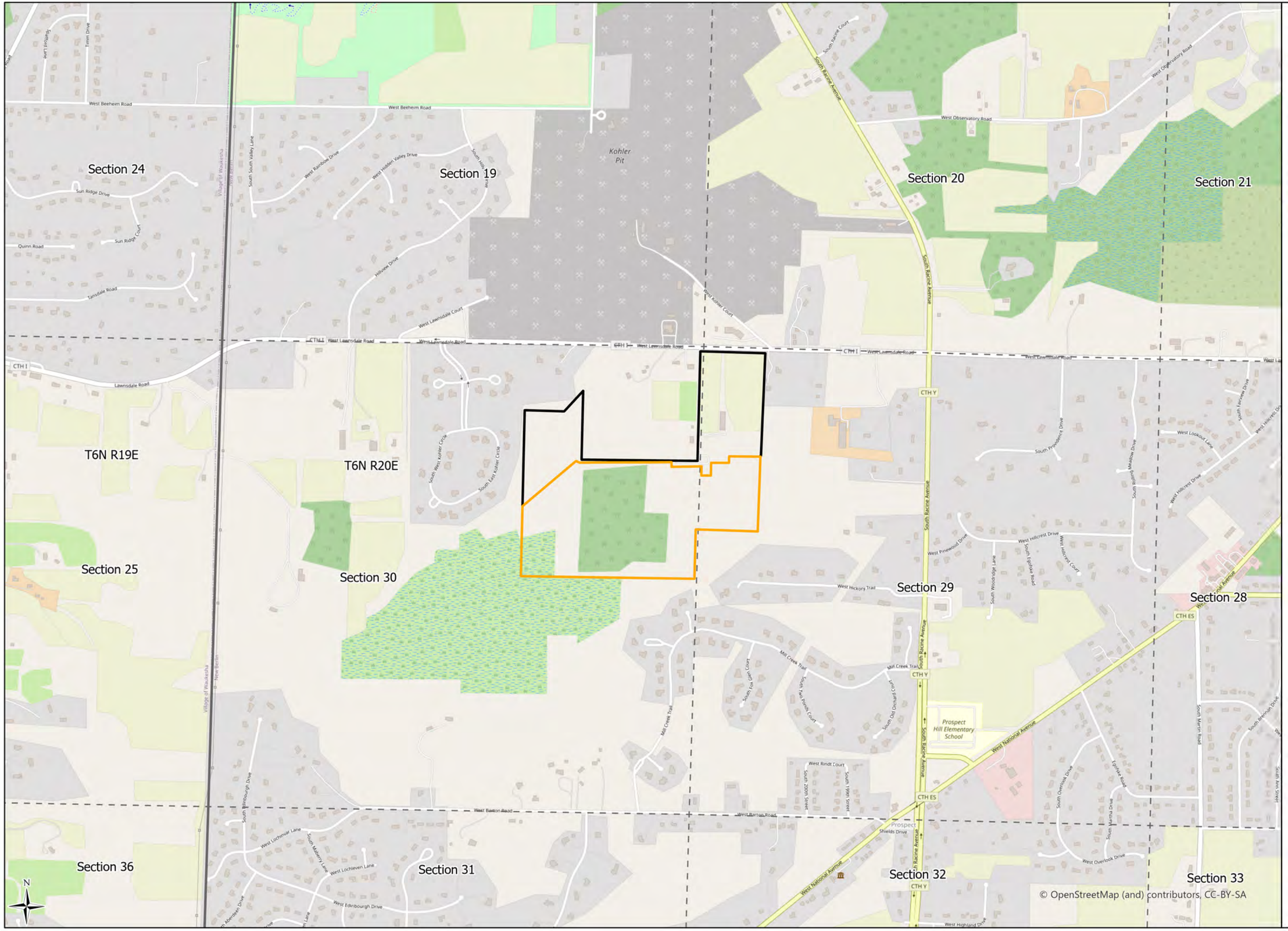
AgACIS (Agricultural Applied Climate Information System). 2024. NOAA Regional Climate Centers. Accessed December 15, 2024, from: http://agacis.rcc-acis.org/.

Sprecher, S.W. and A.G. Warne. 2000. Accessing and using meteorological data to evaluate wetland hydrology. WRAP Technical Notes Collection (Technical Report TR-WRAP-00-1), U.S. Army Engineer Research and Development Center, Vicksburg, MS.

U.S. Army Corp of Engineers. 2005. Technical Standard for Water-Table Monitoring of Potential Wetland Sites. ERDC TN-WRAP-05-02. Vicksburg, MS: U.S. Army Engineer Research and Development Center. Available at: https://erdc-library.erdc.dren.mil/items/81b728f7-654a-4ef8-e053-411ac80adeb3.

Wisconsin Department of Natural Resources (WDNR). 2023. WI Wetland Conservation Trust Program Instrument. Available at: https://dnr.wisconsin.gov/sites/default/files/topic/Wetlands/WWCT_Final_Instrument_June_23_2023.pdf

Appendix A | Figures



Property Boundary (102.64 ac)
Mitigation Site Limits (68.17 ac)
Township
Section

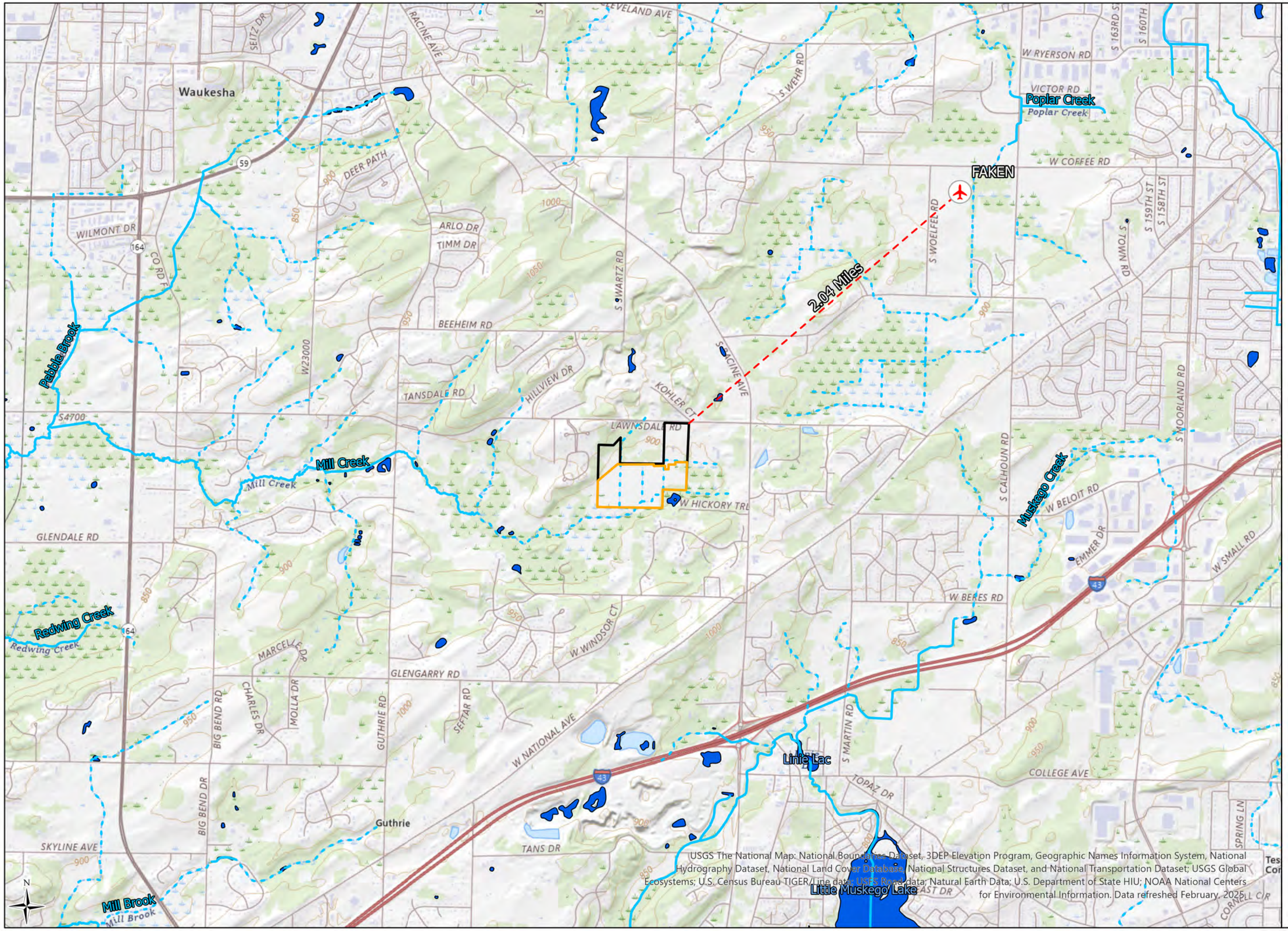
0 500 1,000 Ft

Heartland ECOLOGICAL GROUP INC

Figure 1. Project Location
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

OpenStreetMap
ESRI
LRR: NCNE

Figure Created: 3/18/2025



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data; Natural Earth Data; U.S. Department of State HIU; NOAA National Centers for Environmental Information. Data refreshed February, 2025.

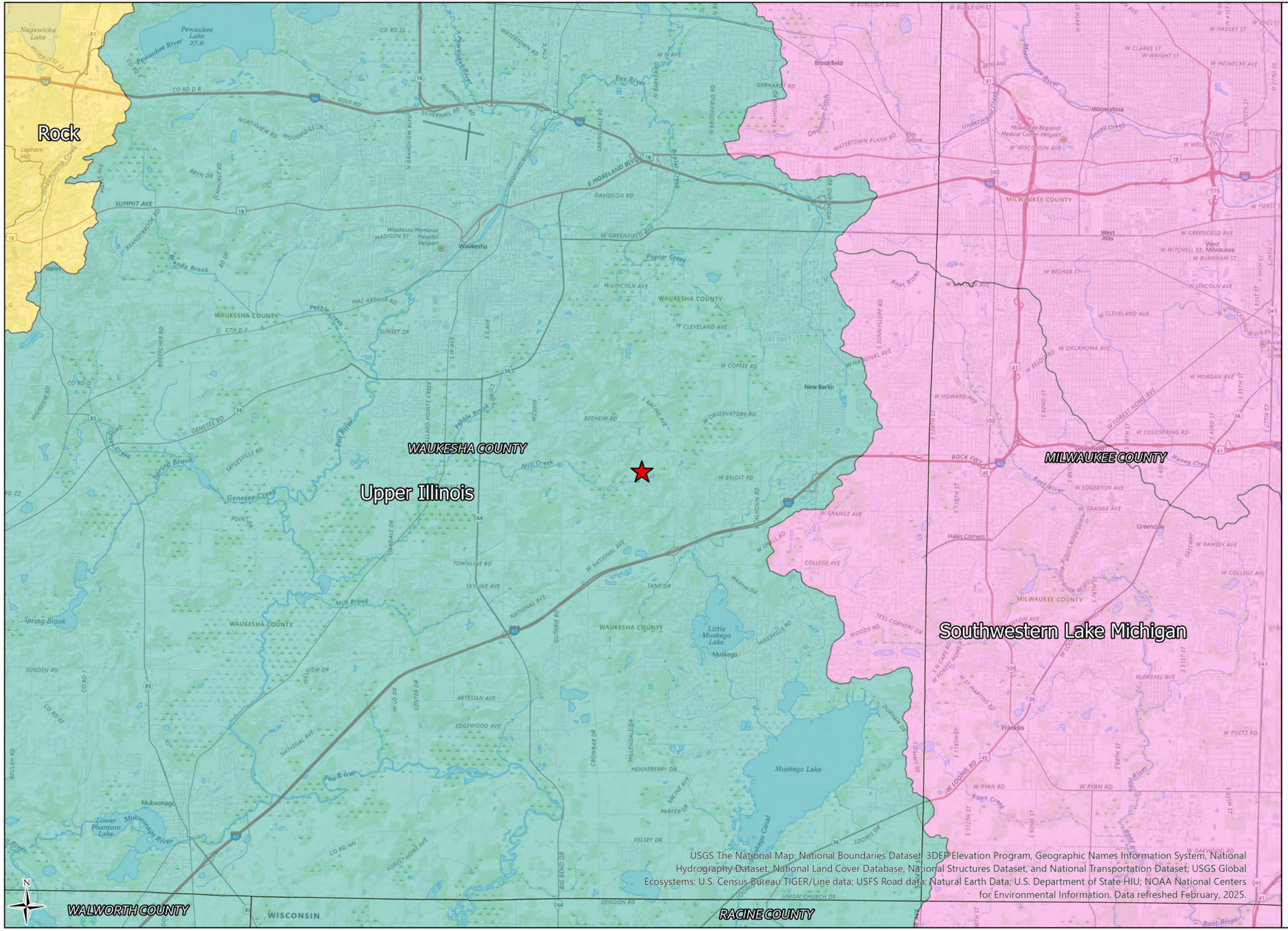
Heartland ECOLOGICAL GROUP INC

Figure 2. Regional Map

Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

USGSTopo
USGS LRR: NCNE

Figure Created: 3/18/2025



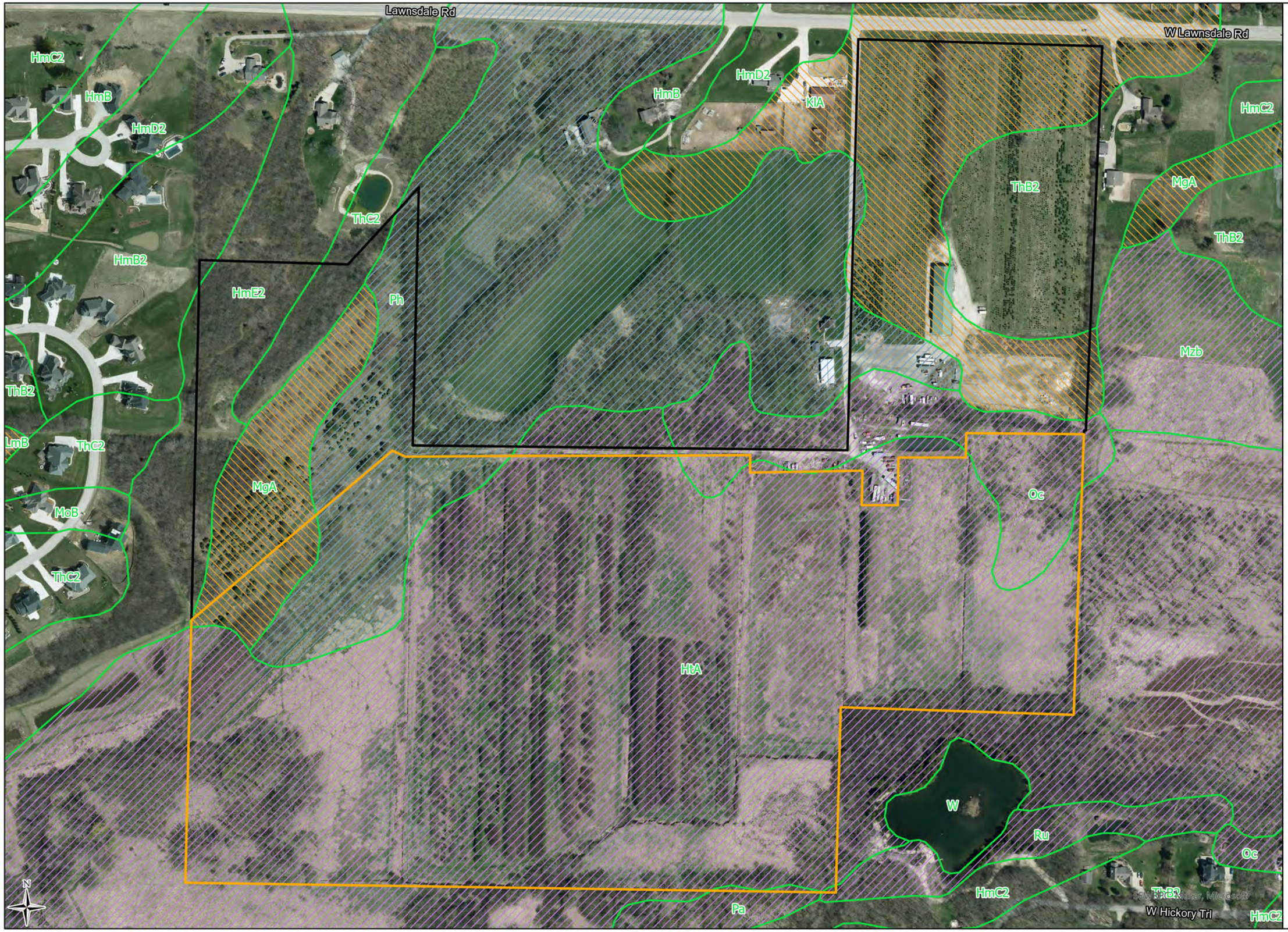
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data; Natural Earth Data; U.S. Department of State HIU; NOAA National Centers for Environmental Information. Data refreshed February, 2025.

Heartland
ECOLOGICAL GROUP INC

Figure 3. Mitigation Service Areas
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

USGSTopo
USGS
LRR: NCNE

Figure Created: 3/3/2025



Property Boundary (102.64 ac)

Mitigation Project Boundary (68.17 ac)

NRCS Soil Survey Data

- Hydric (100%)
- Predominantly Hydric (85-99%)
- Partially Hydric (16-84%)
- Predominantly Non-Hydric (1-15%)
- Non-Hydric (0%)

0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

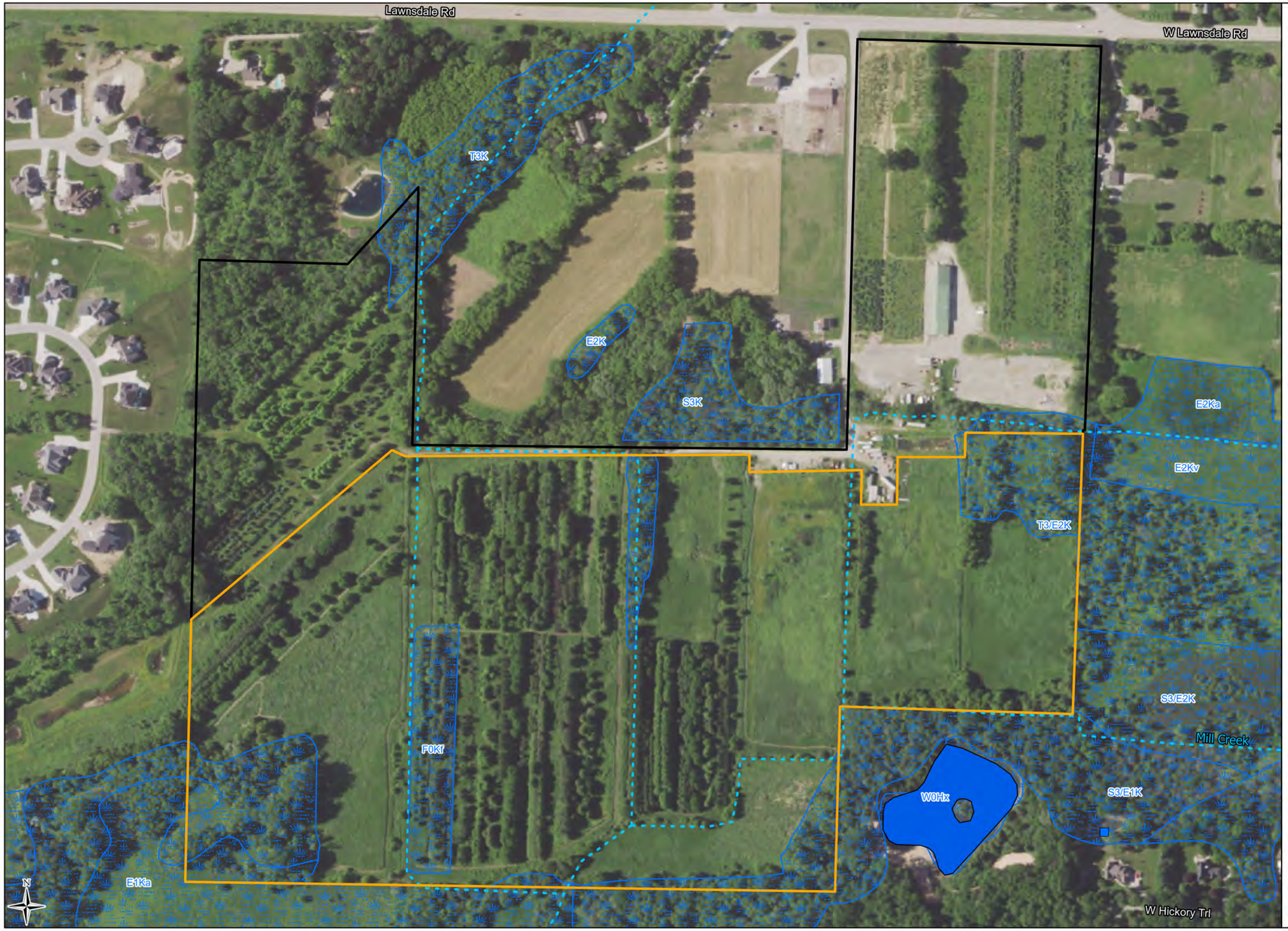
Figure 4. NRCS
Hydric Soils

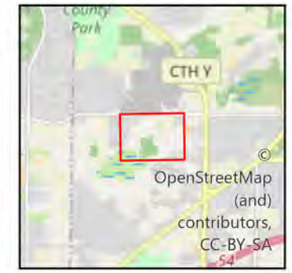
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
NRCS

LRR: NCNE

Figure Created: 3/18/2025





- Property Boundary (102.64 ac)
- Mitigation Project Boundary (68.17 ac)
- WWI Points
- WWI Polygons
- Perennial Streams (None in Map Extent)
- Intermittent Streams
- Waterbodies

Heartland ECOLOGICAL GROUP INC

Figure 5. Wisconsin Wetland Inventory

Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
WDNR, USGS

LRR: NCNE

Figure Created: 3/18/2025

Lawnsdale Rd

W Lawnsdale Rd

W Hickory Trl

Property Boundary (102.64 ac)

Mitigation Project Boundary (68.17 ac)

DNR Potentially Restorable Wetlands

N

0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

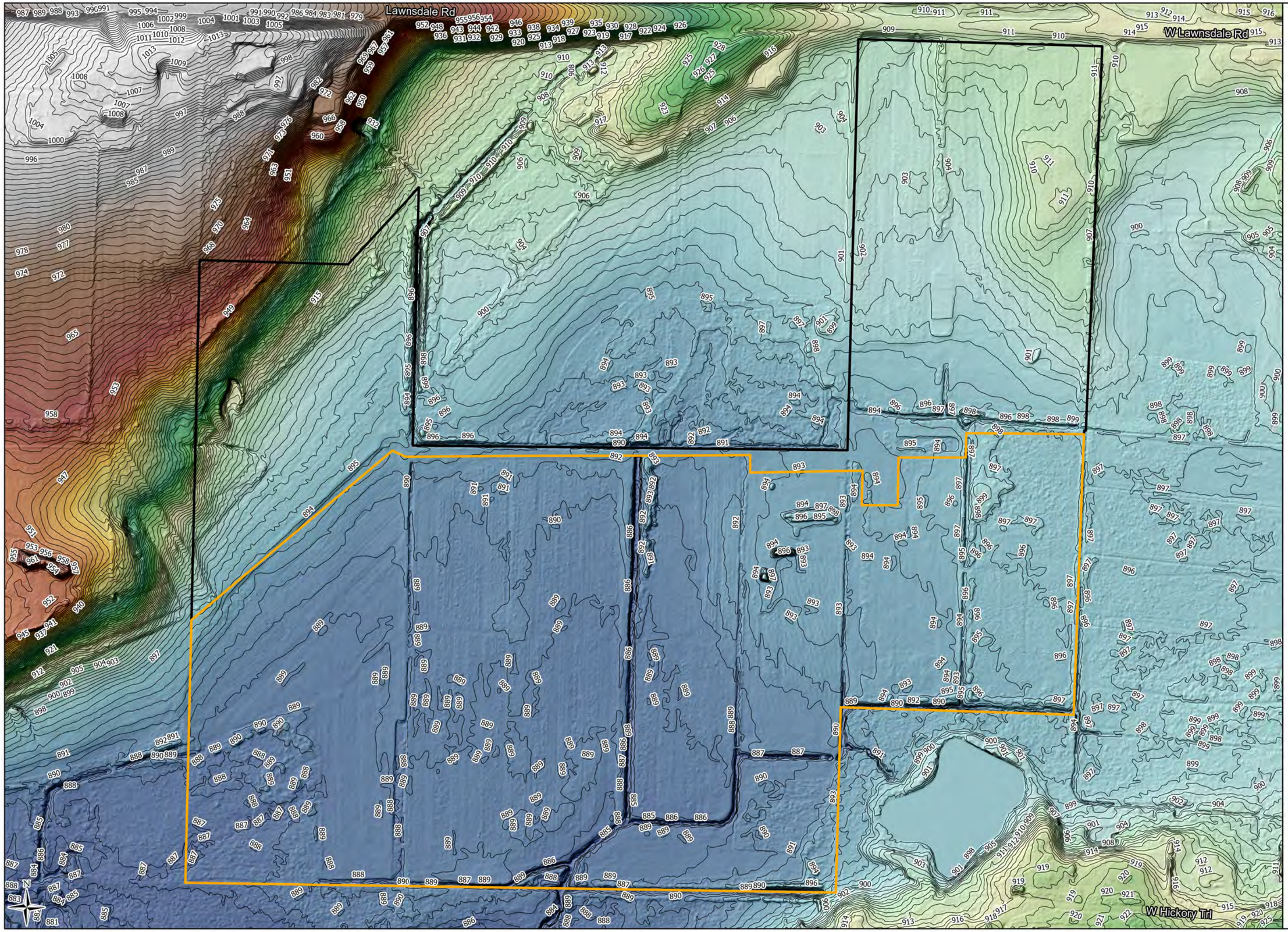
Figure 6. Potentially Restorable Wetlands

Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
WDNR, USGS

LRR: NCNE

Figure Created: 3/18/2025



Property Boundary (102.64 ac)
Mitigation Project Boundary (68.17 ac)
Waukesha Co 1ft Contours

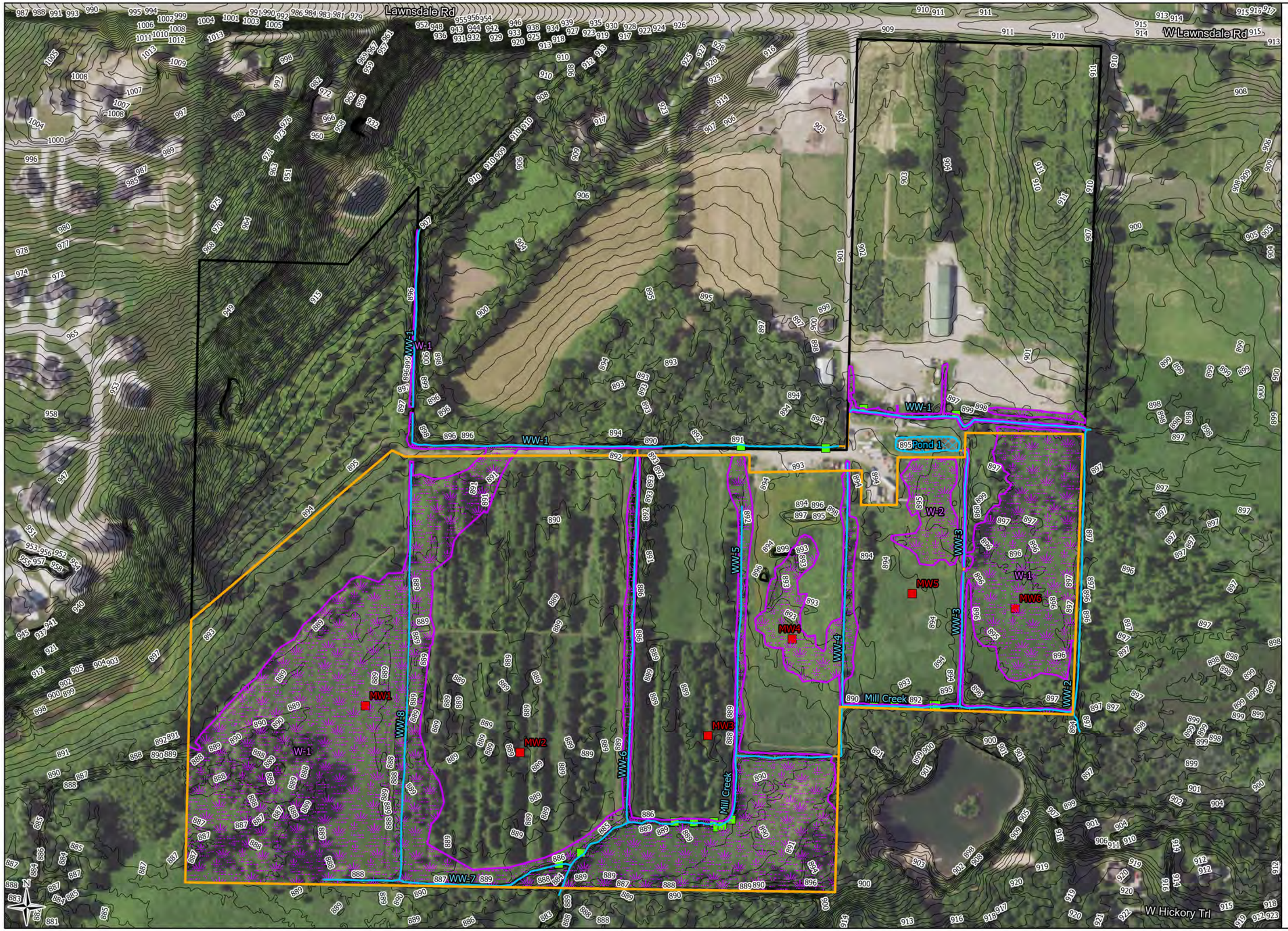
0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

Figure 7. Contours and DEM Map
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

DNR Lidar Service
Waukesha Co., WDNR
LRR: NCNE

Figure Created: 3/18/2025



- Property Boundary (102.64 ac)
- Mitigation Project Boundary (68.17 ac)
- Field Delineated Wetland (30.33 ac)
- Waterbody (0.18 ac)
- Culvert
- Waterways and Ditches
- Waukesha Co 1ft Contours
- Monitoring Well
- Tile Outlet

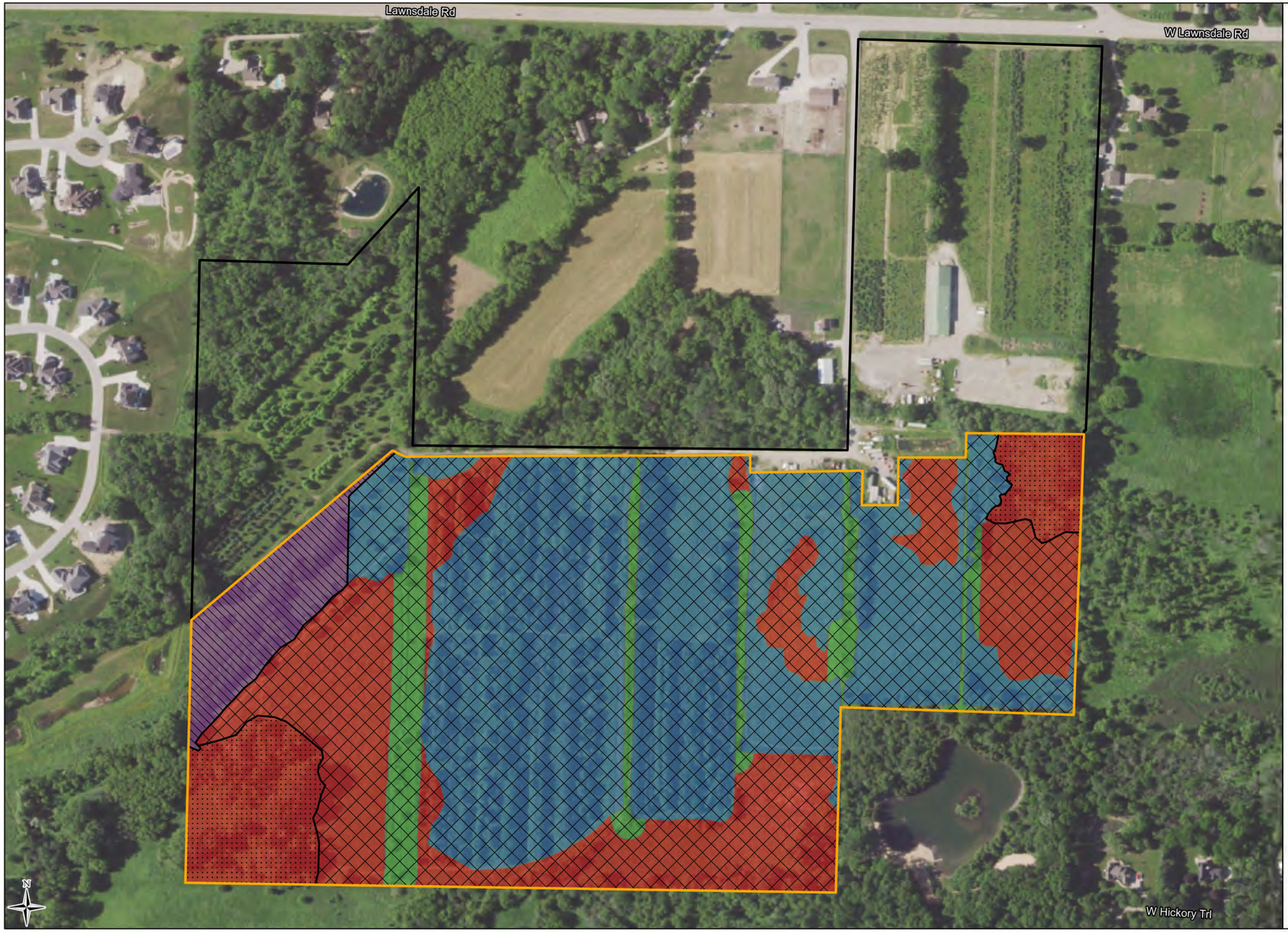
Heartland ECOLOGICAL GROUP INC

Figure 8. Baseline Conditions

Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
Dane Co, HEG
LRR: NCNE

Figure Created: 3/18/2025



Property Boundary (102.64 ac)

Mitigation Project Boundary (68.17 ac)

Proposed Vegetation Community

- Hardwood Swamp (5.87 ac)
- Mesic Prairie (3.68 ac)
- Wet Meadow (58.61 ac)

Compensation Types & Credit Ratios

- Enhancement (0.33:1) (24.29 ac)
- Re-Establishment (1:1) (34.87 ac)
- Rehabilitation (0.75:1) (5.14 ac)
- Upland Buffer (0.25:1) (3.68 ac)

0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

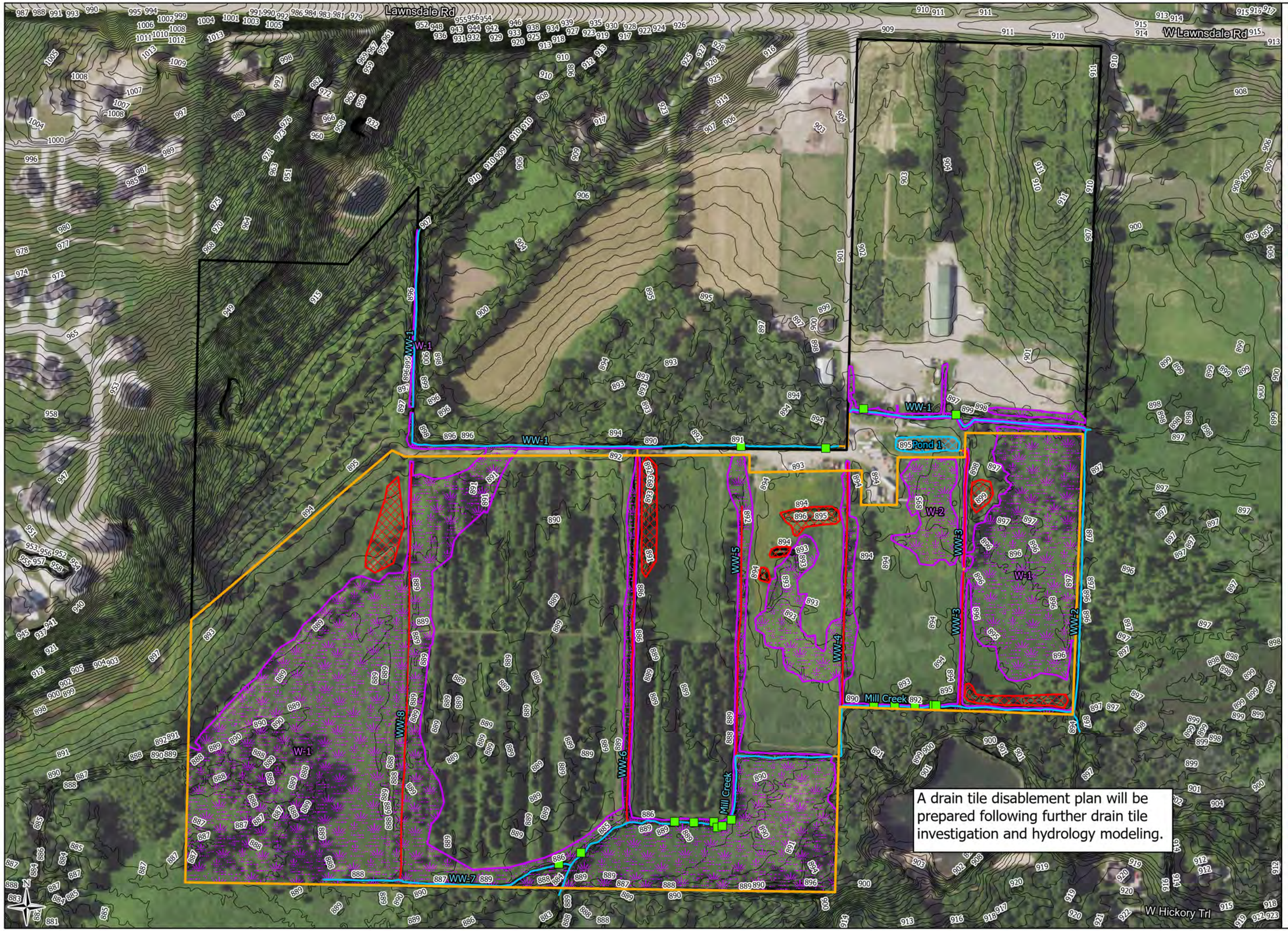
Figure 9. Compensation Types & Credit Ratios

Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
Dane Co, HEG

LRR: NCNE

Figure Created: 3/18/2025



- Property Boundary (102.64 ac)
- Mitigation Project Boundary (68.17 ac)
- Field Delineated Wetland (30.33 ac)
- Waterbody (0.18 ac)
- Spoil Removal and Shallow Scrapes (1.39 ac)
- Culvert
- Tile Outlet
- Waukesha Co 1ft Contours

Waterways and Ditches

- Ditch Disablement
- Unmodified Waterways & Ditches

0 130 260 Ft

N

Heartland ECOLOGICAL GROUP INC

Figure 10. Prelim Hydrology Restoration Concept Plan

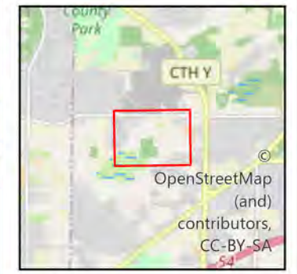
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
Dane Co, HEG

LRR: NCNE

Figure Created: 3/18/2025

KOHLER RIDGE LLCKOHLER RIDGE LLC
KOHLER RIDGE LLC
KOHLER PIT INC
KOHLER PIT INC
KOHLER PIT INC
WAUKESHA COUNTY
HONEYAGER WILLIAM F HONEYAGER ELAINE A
KOHLER PIT INC
Lawnsdale Rd
Kohler Ct
W Lawnsdale Rd
DAMROW THOMAS W DAMROW GRACE S
TAGHIKHANI MAJID TAGHIKHANI ANN M
PUCHERT REINHARD P PUCHERT CONSTANCE M
RUPNOW ERIC M RUPNOW KARA N
HAYES SEAN HAYES PAULETTE
HUBERT DOUGLAS J HUBERT JILL A
SWEENEY FAMILY REVOCABLE TRUST
BACOVSKY STEVEN J BACOVSKY SHERRI L
BIDDLE MICHAEL R BIDDLE CAROLEE A
KOHLER RIDGE LLC
RYBACK PHILLIP M RYBACK GINGER M
SMAQ HOMESTEAD TRUST DTD 42220
JOCZ THOMAS J
HIGHT BARRY A HIGHT VALERIE H
THE SWEENEY FAMILY REVOCLABLE
TENNIE BRADLEY A TENNIE COLLEEN J
KERSTEN TARA
HINTZKE JASON HINTZKE MARIA
KOHLER RIDGE LLC
KOPATICH RICHARD M AVAKIANKOPATICH JAN E
KGP PROPERTIES LLC
KORTES PETER J KORTES ANNETTE
XYNOS KATIE VNISSEN SCOTT A NISSEN CARI K
LIEU THUAN M LIEU EMMA
KATZENBERG KEVIN A KATZENBERG SHARON A
BSIT NURSERY LLC
CUMMINGS WILLIAM P CUMMINGS LISA A
NOWAK PETER J NOWAK KRISTA R
KOHLER RIDGE LLC
GAGLIANELLO NUNZIO A GAGLIANELLO SARAH M
HAAS JUSTIN F HAAS KATHLEEN M
EAST OLIVER J EAST MELISSA M
KOPATICH RICHARD M KOPATICH JAN
GRIFFIN JAMES A ARLYNN J REVO
CAROW EDWARD G CAROW TAMMY
STONER RICHARD J STONER KAYLAN R
BSIT NURSERY LLC
FROEMMING STEVEN F
KUHN MICHAEL KUHN AMY M
STELPFLUG MARK DIANE REV TRUS
KOHLER RIDGE LLC
HAMILTON ERIC L
TIMLIN GARY T TIMLIN ALYSSA I
BUCARO MICHAEL V BUCARO LAURA J
W Hickory Trl
ROGERS GLEN HOMEOWNERS ASSOCIA
SCHAEFER LARRY A SCHAEFER JOYCE I
BRUESEWITZ BRYAN E BRUESEWITZ ANNA M
MESCHER ANTHONY J MESCHER INGER OSBERG M
BAUER JOHN R BAUER KAREN L
TESCHAN RUDOLF R TESCHAN KIM COOMBS M
KATERINOS JAMES D KATERINOS FRANCES J
THE JOSEPH P ONEILL AND DENISE
BAI XINYI BAI ALEX CHENG



Property Boundary (102.64 ac)
Mitigation Project Boundary (68.17 ac)
Waukesha Co Parcels

0 160 320 Ft

N

Heartland ECOLOGICAL GROUP INC

Figure 11. Adjacent Land Owners
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
Dane Co, HEG
LRR: NCNE

Figure Created: 3/18/2025

Appendix B | Bordner Survey

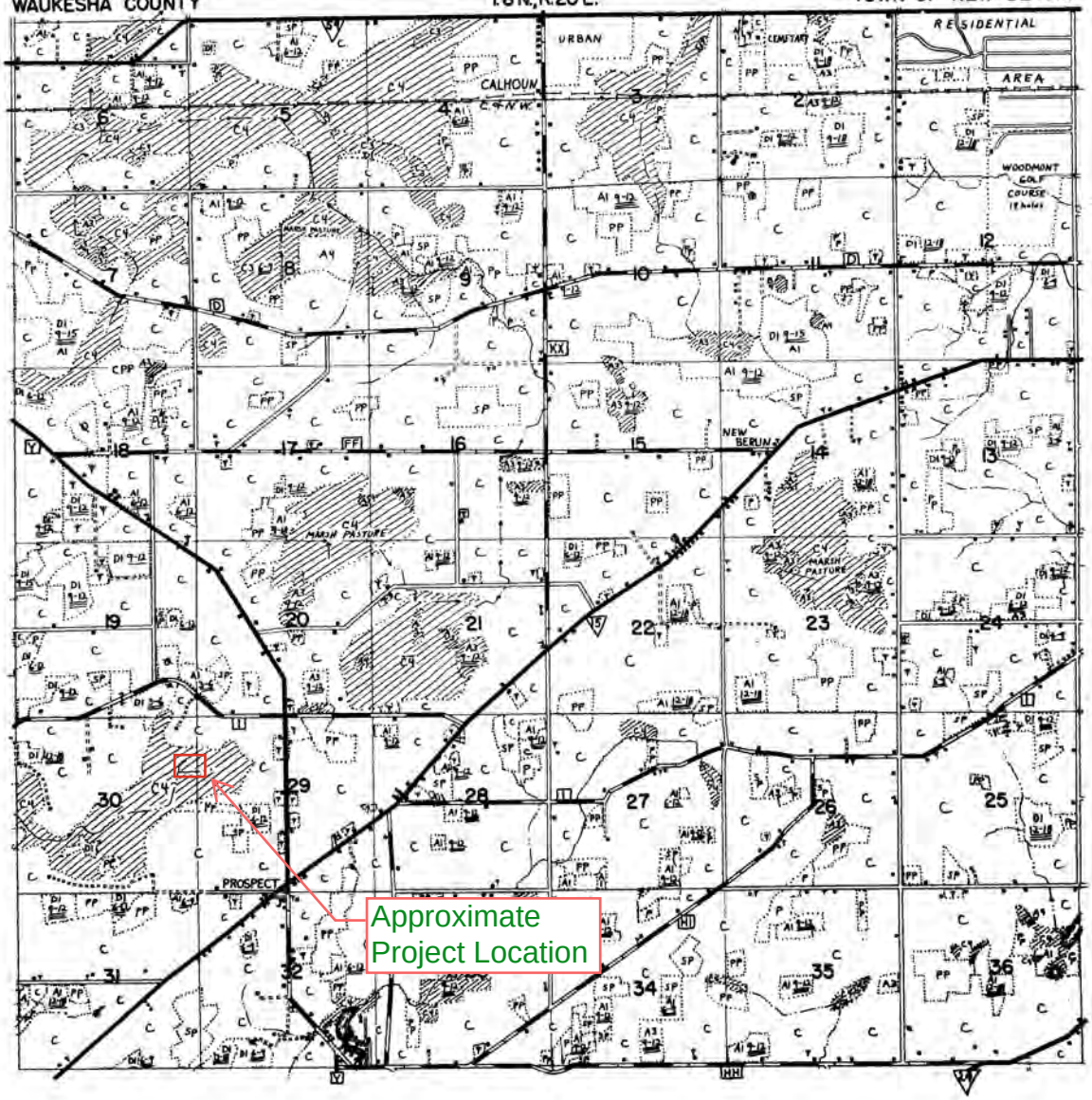
WISCONSIN LAND INVENTORY

LAND COVER MAP

T6N, R.20E.

WAUKESHA COUNTY

TOWN OF NEW BERLIN



LEGEND

UPLAND FOREST NUMERALS 1-2 | LOWLAND FOREST ALL NUMERALS 3 | NON-TILLABLE A-PP-CPP-SP-EVA-CPEA-A | INFERIOR FOREST POORLY STOCKED WOODLAND B-C1-D5-D6 | OPEN SWAMP ALL NUMERALS 4-4 | TILLABLE LAND C-C5-P | ALL SWAMP LAND NUMERALS 3-4

FOREST PLANTING RECOMMENDED

LAND COVER

- COVER BOUNDARY
- A ABANDONED
- A1 UPLAND HARDWOODS
- A2 HEMLOCK WITH HARDWOOD
- A3 SWAMP HARDWOODS
- A4 TAGALDER, WILLOW, DOGWOOD ETC.
- B BIRCH
- B1 HARDWOOD WITH CONIFERS
- B1 INFERIOR B1
- B2 WHITE PINE
- B3 WHITE CEDAR
- B4 CAT TAIL MARSH
- C CLEARED CROP LAND
- C1 POPPLE WITH WHITE BIRCH
- C1 INFERIOR C1
- C2 NORWAY PINE
- C3 TAMARACK
- C4 GRASS MARSH
- C4 SEDGE MARSH
- C5 CULTIVATED STUMP LAND
- CPP POOR LAND PREVIOUSLY CROPPED
- D SCRUB OAK
- D1 OAK - HICKORY
- D2 JACK PINE
- D3 BLACK SPRUCE
- D3 BALSAM
- D4 LEATHER LEAF
- D5 RECENT BURN
- D6 DEAD TIMBER
- E1 PIN CHERRY
- E4 WEEDY PEAT
- F4 CRANBERRY MARSH
- FP FOREST PLANTATION
- O OPEN
- P PASTURE
- PP PERMANENT PASTURE
- RC RED CEDAR
- SP STUMP PASTURE
- TG TRUCK GARDEN

ROADS

- 14 FEDERAL HIGHWAY
- V STATE HIGHWAY
- A COUNTY HIGHWAY
- HARD SURFACED ROAD
- IMPROVED GRAVEL ROAD
- UNIMPROVED GRAVEL ROAD
- IMPROVED DIRT ROAD
- UNIMPROVED DIRT ROAD
- TRAIL
- DRIVABLE FIRE LANE
- NON-DRIVABLE FIRE LANE
- TELEPHONE LINE
- POWER LINE
- RAILROAD
- ABANDONED RAILROAD

IMPROVEMENTS

- O OCCUPIED HOUSE
- O VACANT HOUSE
- SUMMER HOME
- OCCUPIED SCHOOL
- VACANT SCHOOL
- CHURCH
- TOWN HALL
- CHEESE FACTORY
- CREAMERY
- FILLING STATION OR GARAGE
- STORE
- TAVERN
- HOTEL
- SAW MILL
- GRIST MILL
- FARM BLDG. LESS THAN 100 FT. FROM CENTER OF ROAD
- LOGGING CAMP
- INDICATES NO OF HOUSES IN A GROUP
- 30 INDICATES THE NUMBER OF FEET BUILDING IS LOCATED FROM CENTER OF ROAD

MISCELLANEOUS SYMBOLS

- Q QUARRY
- G GRAVEL PIT
- S SPRING
- F FUR FARM
- DRAINAGE DITCH
- CEMETERY
- NURSERY
- EROSION
- FIRE TOWER
- INTERMITTENT STREAM
- GC GOLF COURSE
- BD BEAVER DAM
- PD PUBLIC DUMP
- Y ORCHARD
- CIVIL TOWN BOUNDARY

WOODED AREAS

DENSITY OF STAND

IS INDICATED BY THE LINE OR LINES BELOW THE DIAMETER

- D1 0-12 ONE LINE = GOOD STAND
- D1 0-12 TWO LINES = MEDIAN STAND
- D1 0-12 THREE LINES = POOR STAND
- D1 0-12 FOUR LINES = SCATTERED

DIAMETER CLASSES

NUMERALS 0-1, 2-8 ETC PLACED AFTER A TIMBER SYMBOL (D1 8 12) INDICATES IN INCHES THE AVERAGE DIAMETER OF THE TREES BREAST HIGH (4½ FT.) WITHIN A GIVEN COVER AREA.

ONE MILE

STATE CAPITOL — MADISON WISCONSIN

WISCONSIN STATE PLANNING BOARD — WPA COOPERATING

WISCONSIN LAND ECONOMIC INVENTORY DIVISION

Appendix C | Historic Aerial Imagery

MAP WAUKESHA county

1941 Aerial Photo

Legend

- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025

MAP WAUKESHA county

1950 Aerial Photo

Legend

- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025

MAP WAUKESHA county

1963 Aerial Photo

Legend

- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025

MAP WAUKESHA county

1970 Aerial Photo

Legend

- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025

MAP WAUKESHA county

1980 Aerial Photo

Legend

- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025

MAP WAUKESHA county

1990 Aerial Photo

Legend

- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025

MAP WAUKESHA county

1995 Aerial Photo

Legend

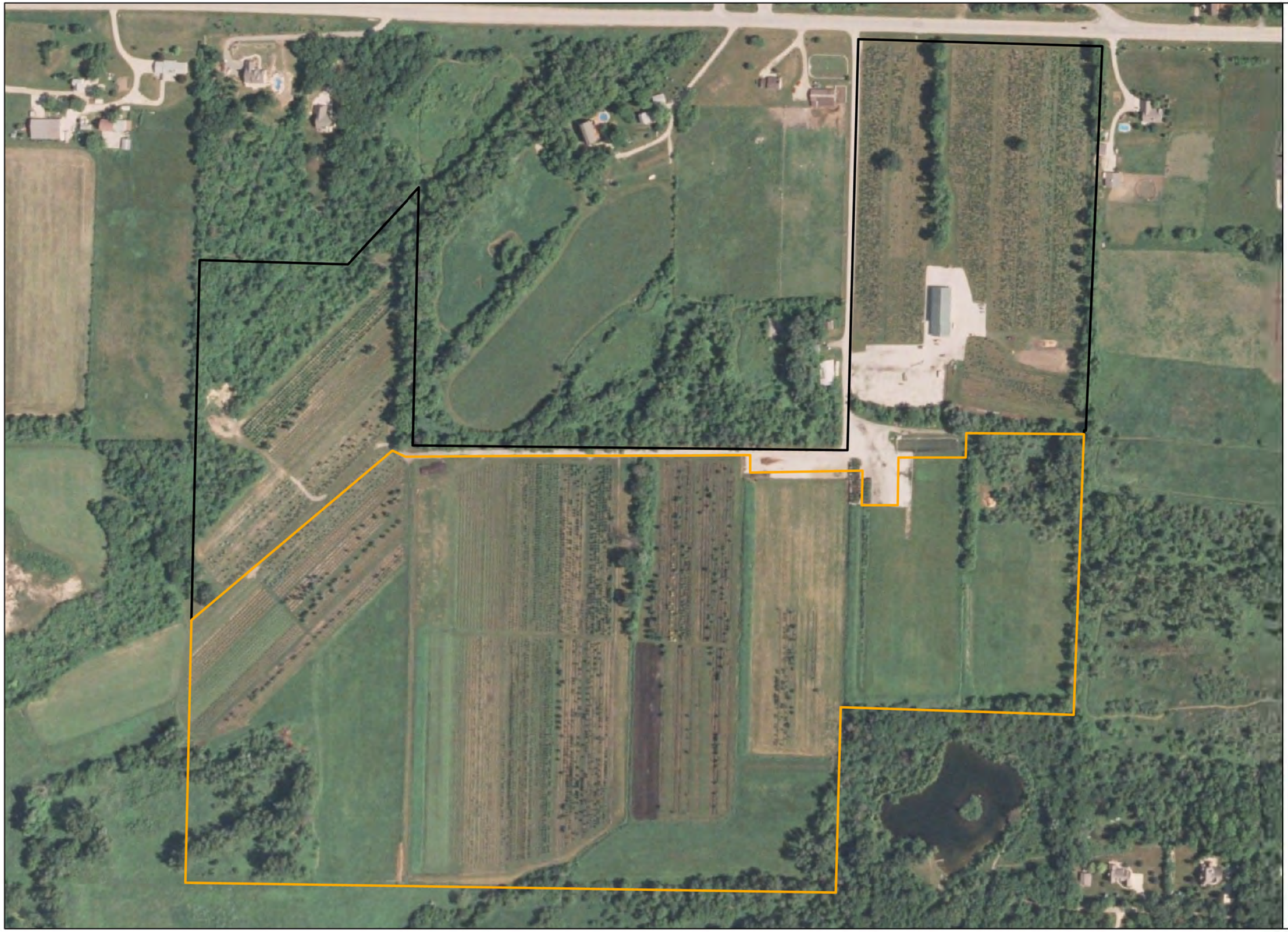
- Municipal Boundary_2K
- Parcel_Dimension_2K
- Note_Text_2K
- Lots_2K
  - Lot
  - Unit
  - General Common Element
  - Outlot
- SimultaneousConveyance
  - Assessor Plat
  - CSM
  - Condominium
  - Subdivision
- Cartoline_2K
  - EA-Easement_Line
  - PL-DA
  - PL-Extended_Tie_line
  - PL-Meander_Line
  - PL-Note
  - PL-Tie
  - PL-Tie_Line
  - <all other values>
- Railroad_2K

0 586.52 Feet

Notes:

Printed: 2/21/2025


April 2000
Aerial Photo
Legend
2482.92811370549
Feature 1
Lawnsdale Rd
Lawnsdale Rd
New Berlin Redi-Mix
Kohler Ridge Blvd
Kohler Cir E
Lush Farms
Mill Creek
Mill Creek
Google Earth
Image U.S. Geological Survey
N
1000 ft



Property Boundary (102.64 ac)
Mitigation Project Boundary (68.17 ac)

0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

Appendix: 2005-06-16
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2005 NAIP
USDA
LRR: NCNE

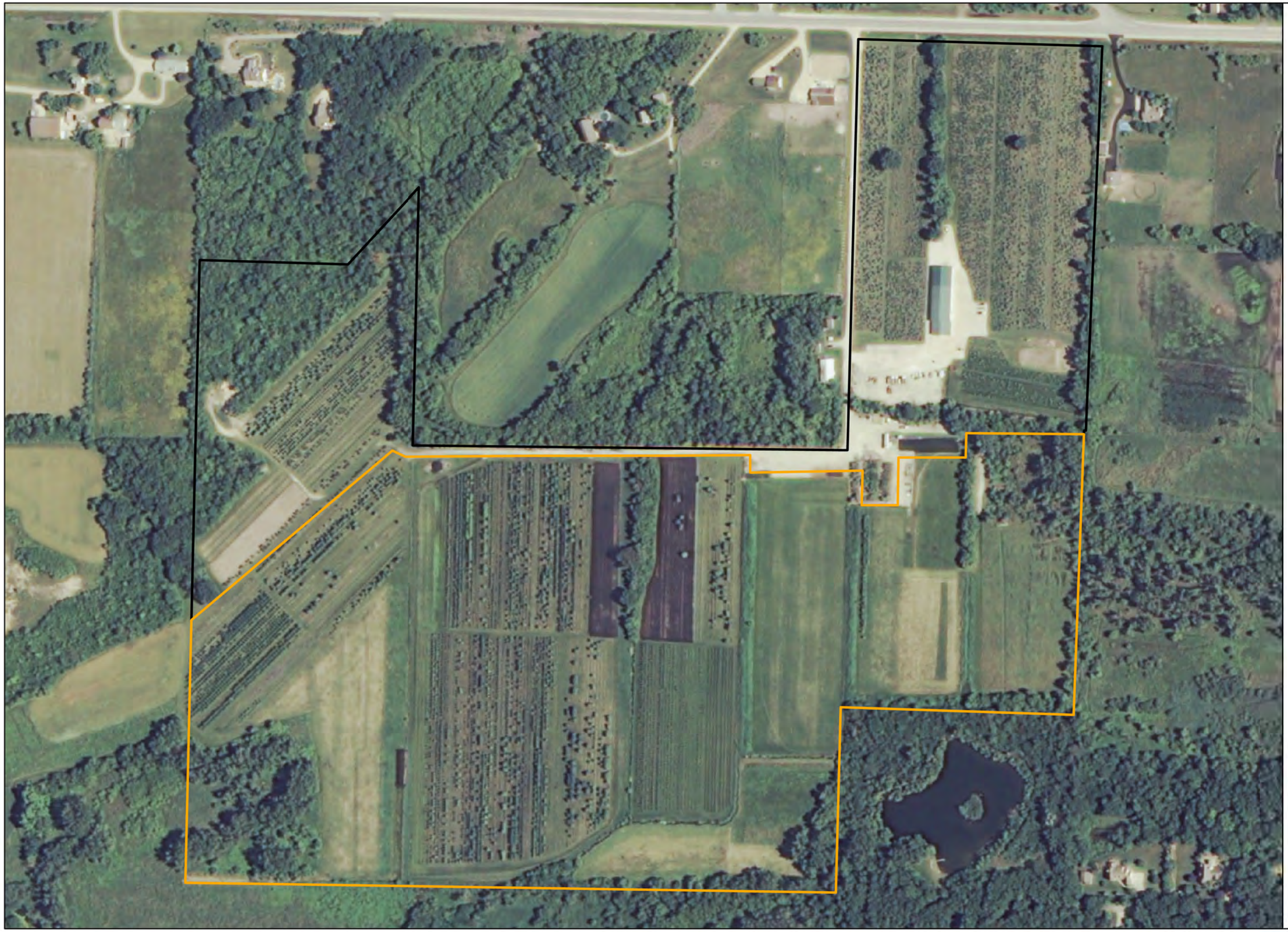
Figure Created: 3/18/2025

Heartland
ECOLOGICAL GROUP INC

Appendix: 2006-06-29
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2006 NAIP
USDA
LRR: NCNE

Figure Created: 3/18/2025



Heartland
ECOLOGICAL GROUP INC

Appendix: 2008-07-05
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2008 NAIP
USDA
LRR: NCNE

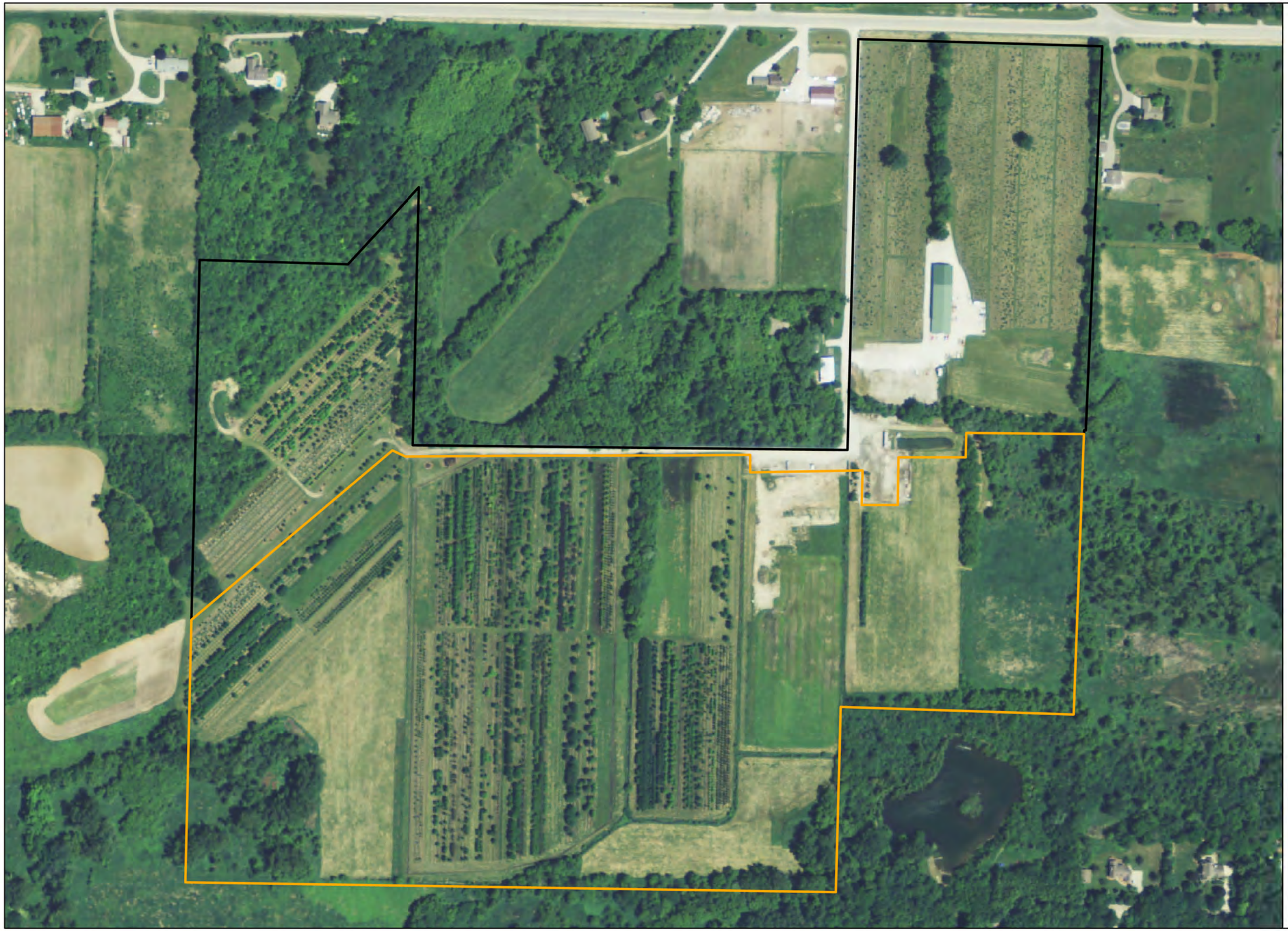
Figure Created: 3/18/2025

Heartland
ECOLOGICAL GROUP INC

Appendix: 2010-07-01
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2010 NAIP
USDA
LRR: NCNE

Figure Created: 3/18/2025



Property Boundary (102.64 ac)
Mitigation Project Boundary (68.17 ac)

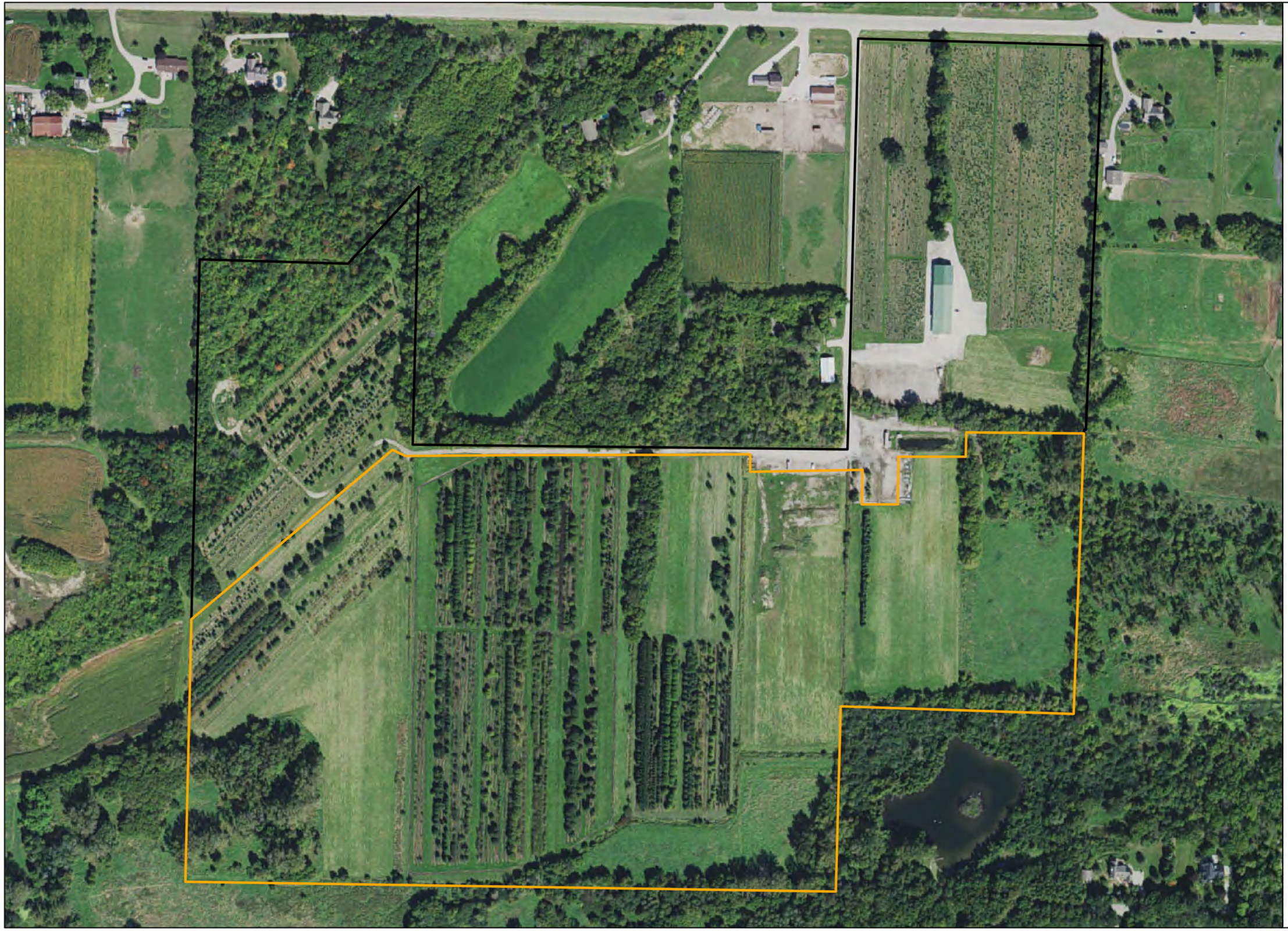
0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

Appendix: 2013-06-19
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2013 NAIP
USDA
LRR: NCNE

Figure Created: 3/18/2025



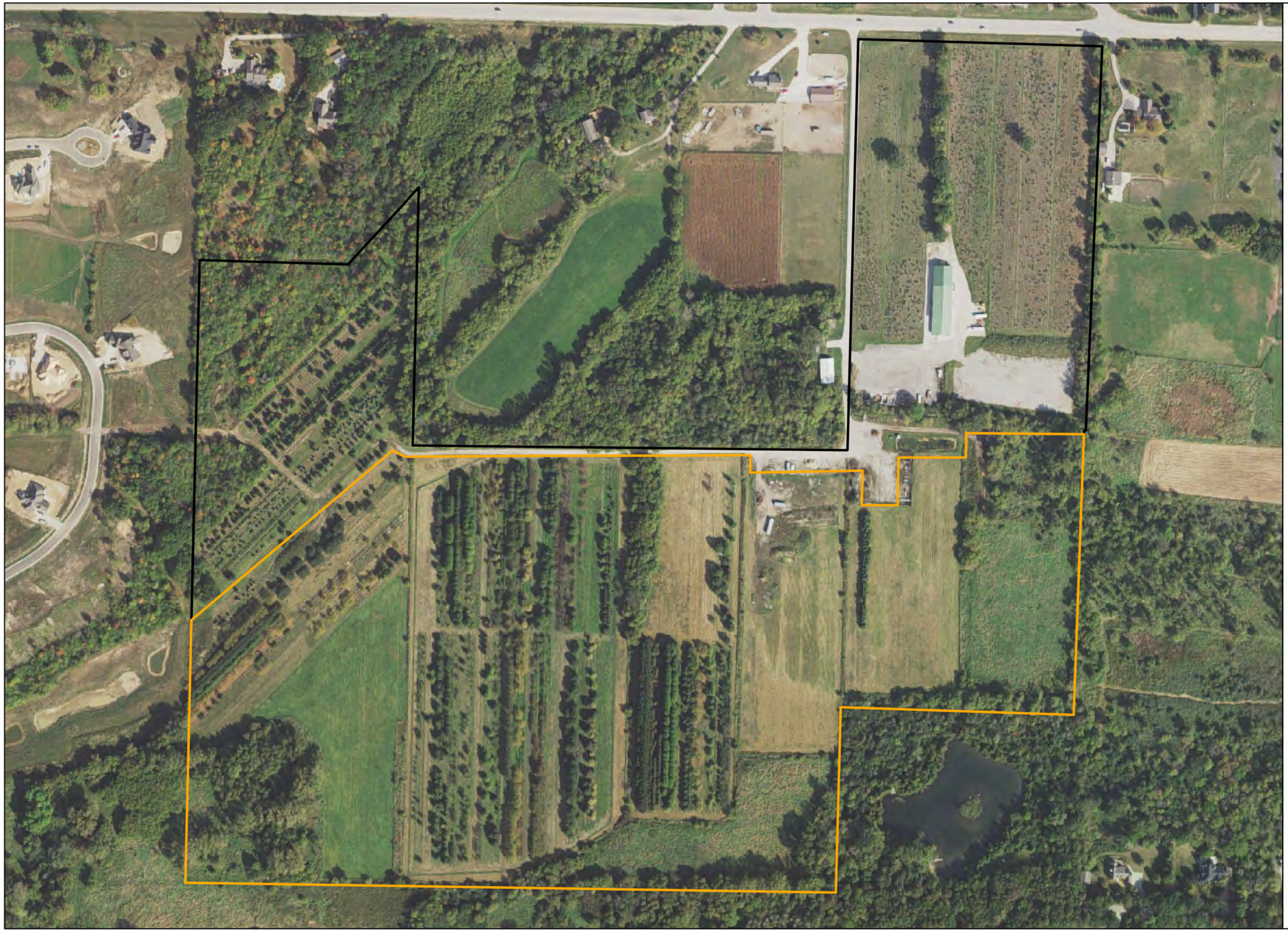
Heartland ECOLOGICAL GROUP INC

Appendix: 2015-09-22
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2015 NAIP
USDA

LRR: NCNE

Figure Created: 3/18/2025



Heartland ECOLOGICAL GROUP INC

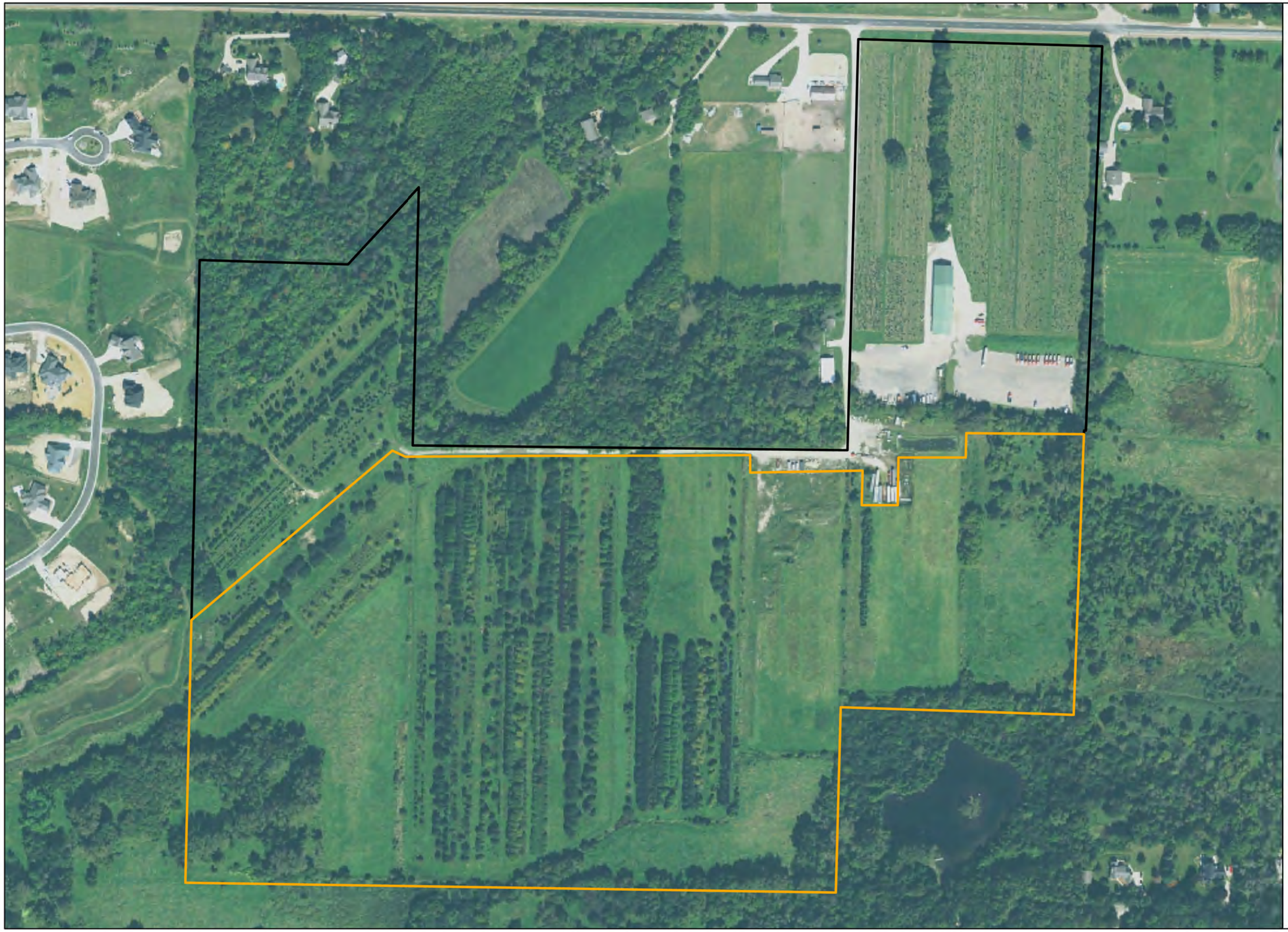
Appendix: 2017-09-23
NAIP Aerial Imagery

Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2017 NAIP
USDA

LRR: NCNE

Figure Created: 3/18/2025

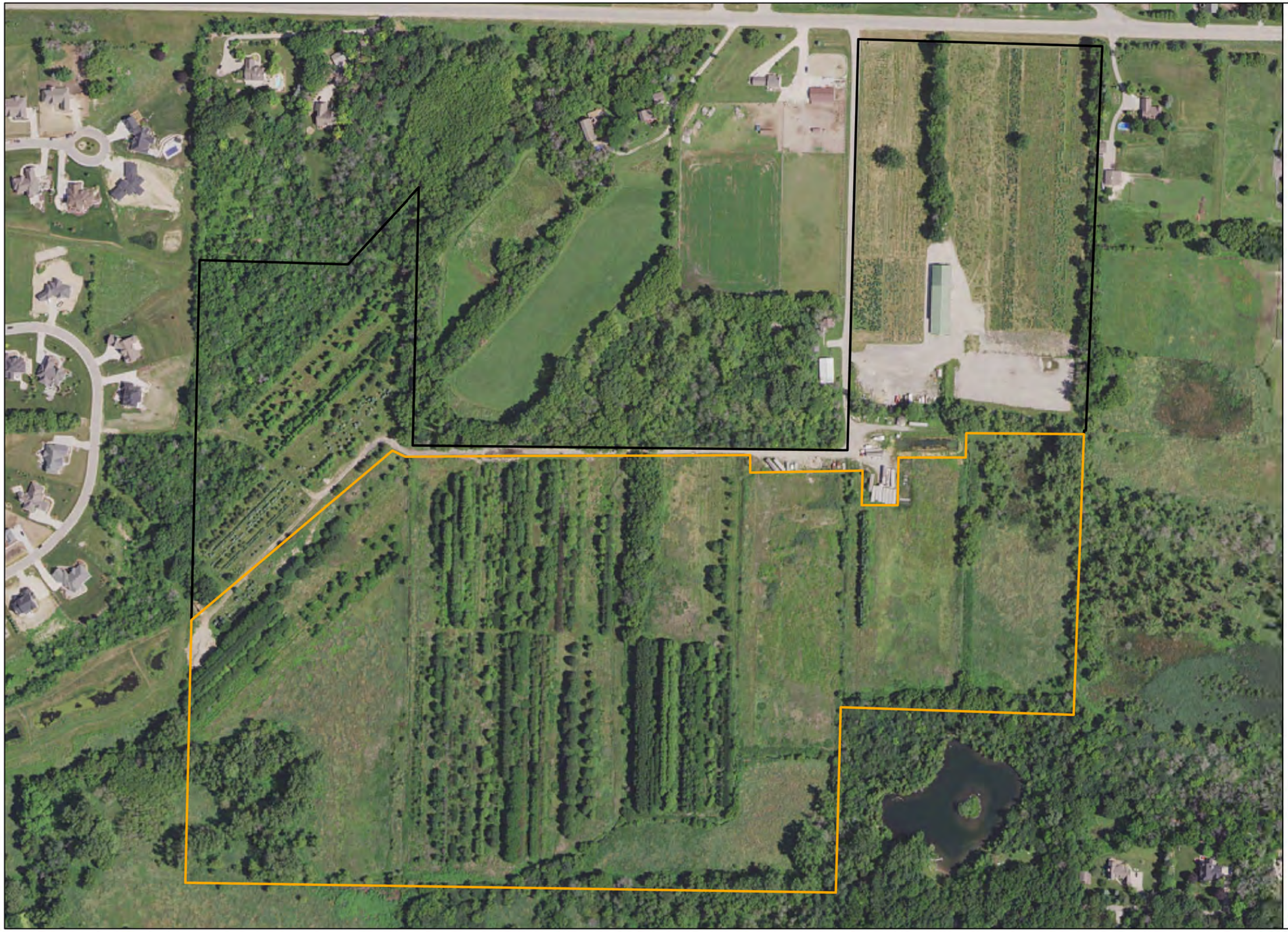


Heartland
ECOLOGICAL GROUP INC

Appendix: 2018-09-15
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2018 NAIP
USDA
LRR: NCNE

Figure Created: 3/18/2025



Property Boundary (102.64 ac)
Mitigation Project Boundary (68.17 ac)

0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

Appendix: 2020-07-24
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2020 NAIP
USDA
LRR: NCNE

Figure Created: 3/18/2025

Heartland
ECOLOGICAL GROUP INC

Appendix: 2022-06-23
NAIP Aerial Imagery
Mill Creek Mitigation Bank
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
USDA
LRR: NCNE

Figure Created: 3/18/2025

Appendix D | Title and Easements

Knight Barry Title, Inc.
201 E. Pittsburgh Avenue, Suite 200
Milwaukee, WI 53204
(414)727-4545
Fax: (414)755-7186

COMMITMENT FOR TITLE INSURANCE
Schedule A

File #: 2247147
Revision: 2247147

Completed on: 11/29/2023 08:55 AM
Last Revised on: 11/29/23 08:55 AM
Printed on: 11/29/2023 08:55 AM
Title Contact: Ann Myers (ann@knightbarry.com)
Closing Contact: Elizabeth Rose Garry (elizabeth@knightbarry.com)

COMMITMENT DATE	November 10, 2023 at 08:00 AM
1. POLICY TO BE ISSUED	
ALTA OWNERS POLICY (07/01/21)	
Proposed Amount of Insurance: *(the purchase price)*	$900,000.00
Proposed Insured: *(the buyer)*	Workman Investments LLC, a Wisconsin limited liability company
2. TITLE TO THE FEE SIMPLE ESTATE OR INTEREST IN THE LAND IS AT THE COMMITMENT DATE VESTED IN *(the owner)*	BSIT Nursery, LLC, a Wisconsin limited liability company
3. THE LAND IS DESCRIBED AS FOLLOWS *(the legal description)*	See “Exhibit A” attached.

Knight Barry Title, Inc.
201 E. Pittsburgh Avenue, Suite 200
Milwaukee, WI 53204
(414)727-4545
Fax: (414)755-7186

COMMITMENT FOR TITLE INSURANCE
Schedule B, Part 1
REQUIREMENTS

File #: 2247147
Revision: 2247147

Completed on: 11/29/2023 08:55 AM
Last Revised on: 11/29/23 08:55 AM
Printed on: 11/29/2023 08:55 AM
Title Contact: Ann Myers (ann@knightbarry.com)
Closing Contact: Elizabeth Rose Garry (elizabeth@knightbarry.com)

All of the following Requirements must be met:

1. The Proposed Insured must notify the Company in writing of the name of any party not referred to in this Commitment who will obtain an interest in the Land or who will make a loan on the Land. The Company may then make additional Requirements or Exceptions.

2. Pay the agreed amount for the estate or interest to be insured.

3. Pay the premiums, fees, and charges for the Policy to the Company.

4. Documents satisfactory to the Company that convey the Title or create the Mortgage to be insured, or both, must be properly authorized, executed, delivered, and recorded in the Public Records.

5. Deed from BSIT Nursery, LLC, a Wisconsin limited liability company, to Workman Investments LLC, a Wisconsin limited liability company.

   FURTHER the Company must be supplied with the Wisconsin Electronic Real Estate Transfer Return as required by Section 77.22, Wis. Stats.

6. Because BSIT Nursery, LLC, a Wisconsin limited liability company ("LLC") is not a natural person, the Company requires the following documents:

   i. Operating Agreement of the LLC and all amendments thereto.

   ii. If the LLC is a member-managed limited liability company, resolutions adopted by all of the members of the LLC approving the conveyance and naming the person, and the person's capacity, authorized to execute the Deed.

   iii. If the LLC is a manager-managed limited liability company, resolutions adopted by all of the managers of the LLC approving the conveyance and naming the person, and the person's capacity, authorized to execute the Deed.

   Upon receipt and examination of the above the Company may modify these requirements to satisfy the Company that the appropriate person(s) is/are executing the Deed for the limited purpose of issuance of the policy(ies) contemplated by this Commitment.

Knight Barry Title, Inc.
201 E. Pittsburgh Avenue, Suite 200
Milwaukee, WI 53204
(414)727-4545
Fax: (414)755-7186

COMMITMENT FOR TITLE INSURANCE
Schedule B, Part 2
EXCEPTIONS

File #: 2247147
Revision: 2247147

Completed on: 11/29/2023 08:55 AM
Last Revised on: 11/29/23 08:55 AM
Printed on: 11/29/2023 08:55 AM
Title Contact: Ann Myers (ann@knightbarry.com)
Closing Contact: Elizabeth Rose Garry (elizabeth@knightbarry.com)

Some historical land records contain Discriminatory Covenants that are illegal and unenforceable by law. This Commitment and the Policy treat any Discriminatory Covenant in a document referenced in Schedule B as if each Discriminatory Covenant is redacted, repudiated, removed, and not republished or recirculated. Only the remaining provisions of the document will be excepted from coverage.

The Policy will not insure against loss or damage resulting from the terms and conditions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date, as set forth on the Commitment for Title Insurance, and the Date of Policy, as set forth on the Policy.

2. Special assessments, special taxes or special charges, if any, payable with the taxes levied or to be levied for the current and subsequent years.

3. Liens, hook-up charges or fees, deferred charges, reserve capacity assessments, impact fees, or other charges or fees and due payable on the development or improvement of the Land, whether assessed or charged before or after the Date of the Policy.

4. Any lien, or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the Public Records.

5. Rights or claims of parties in possession not shown by the Public Records.

6. Any encroachments, encumbrance, violation, variation, or adverse circumstance affecting Title that would be disclosed by an accurate and complete land survey of the Land.

7. Easements or claims of easements not shown by the Public Records.

8. Any claim of adverse possession or prescriptive easement.

9. General Taxes for the year 2023 and subsequent years, not yet due or payable. In the event that the transaction to be insured under this Commitment occurs in December of 2023 or later, then please contact the Company for an update as to the status of taxes. Failure to do so will result in the following appearing as an exception on the final title insurance policy to be issued pursuant to this Commitment: "General Taxes for the year 2023 and subsequent years."

10. Public or private rights, if any, in such portion of the Land as may be presently used, laid out, or dedicated in any manner whatsoever, for street, highway and/or alley purposes. (Parcels A and B)

11. Rights of the public in any portion of the Land lying below the ordinary high water mark of Mill Creek, and rights of the government to regulate the use of the shore and riparian rights. This Commitment and/or Policy does not insure the exact location of any portion of the Land created by gradual buildup of the shore (accretion) or the lowering of the water level (reliction), or the title to land cut off by a change in the course of the water body (avulsion), or to artificially filled land. (Parcels A and B)

12. Drainage rights and rights of way by reason of any drainage ditches, feeders, laterals and underground drain tile or pipes that may be located on the Land. (Parcels A and B)

13. Easement and other matters contained in the instrument recorded March 3, 1949 as Document No. 323344. (Parcel A)

14. Easement and other matters contained in the instrument recorded June 20, 1949 as Document No. 326678. (Parcel A)

15. Hold Harmless Agreement and other matters contained in the instrument recorded September 15, 2000 as Document No. 2590916. (Parcel A)

16. Utility Easement granted to Wisconsin Electric Power Company and other matters contained in the instrument recorded October 8, 1945 as Document No. 278295. (Parcel B)

17. Utility Easement granted to Wisconsin Electric Power Company and other matters contained in the instrument recorded October 8, 1945 as Document No. 278296. (Parcel B)

18. Utility Easement granted to Wisconsin Electric Power Company and other matters contained in the instrument recorded November 24, 1948 as Document No. 320608. (Parcel B)

19. Mortgage from BSIT Nursery, LLC, a Wisconsin limited liability company to Home Federal Savings Bank in the amount of $500,000.00 dated May 22, 2018 and recorded May 24, 2018 as Document No. 4340833. (Parcels A and B)

20. Assignment of Rents from BSIT Nursery, LLC, a Wisconsin limited liability company to Home Federal Savings Bank recorded May 24, 2018 as Document No. 4340834. (Parcels A and B)

21. Access to Parcel B of the Land is provided through Parcel A. If ownership of these parcels is severed in the future, Parcel B will not have access unless an easement is granted. If no easement is granted for the benefit of Parcel B, access to Parcel B cannot be insured.

22. Possible lien or reassessment pursuant to Wisconsin Statutes for conversion of the land use from agricultural. (Parcels A and B)

23. Possible lien or reassessment pursuant to Wisconsin Statutes for conversion of the land from productive forest land. (Parcel B)

FOOTNOTES

THIS IS FOR INFORMATIONAL PURPOSES ONLY; NOTHING NOTED IN THIS SECTION WILL APPEAR ON THE POLICY.

a. Taxes for the Year 2022 in the amount of $3,325.15, and all prior years are paid. (Parcel A)

b. Taxes for the Year 2022 in the amount of $412.60, and all prior years are paid. (Parcel B)

c. Warranty Deed recorded May 24, 2018, as Document No. 4340832 is enclosed for reference.

PARCEL A:
All that part of the Northwest 1/4 of Section 29, Township 6 North, Range 20 East, in the City of New Berlin, County of Waukesha, State of Wisconsin, bounded and described as follows:
Commencing at the Northwest corner of the Northwest 1/4 of Section 29; thence South 0°32'58" East along the West line of said Northwest 1/4, 92.77 feet to the place of beginning of the lands herein to be described; thence South 0°32'58" East along said West line 2010.98 feet to the Northwest corner of George Leiber's land described in Volume 21 of Deeds on Page 316; thence North 88°58'50" East 704.00 feet along the North line of said George Leiber's land; thence North 0°03'10" East 2003.16 feet to a point on the South line of Lawnsdale Road (C.T.H. "I"); thence South 89°37'17" West along said South line 725.04 feet to the place of beginning.
ALSO
The East 1-1/2 rods of lands of the Northeast 1/4 of the Northeast 1/4 of Section 30, Township 6 North, Range 20 East, in the City of New Berlin, County of Waukesha, State of Wisconsin. EXCEPT the part conveyed to the City of New Berlin dated September 30, 1976 and recorded October 7, 1976, on Reel 203, Image 706, as Document No. 970133.

PARCEL B:
All that part of the East 1/2 of the Northwest 1/4 of the Northeast 1/4 of Section 30, Township 6 North, Range 20 East, in the City of New Berlin, County of Waukesha, State of Wisconsin, bounded and described as follows:
Commencing at the Northwest corner of the Northeast 1/4 of Section 30; thence North 88°25'11" East along the North line of said Northeast 1/4, 659.72 feet to the Northwest corner of the East 1/2 of the Northwest 1/4 of the Northeast 1/4; thence South 0°44'30" East along the West line of said East 1/2 of the Northwest 1/4 of the Northeast 1/4, 51.26 feet to the place of beginning of the lands to be described; thence South 0°44'30" East along said West line 1279.715 feet; thence North 43°36'35" East, 942.56 feet to a point on the East line of said East 1/2 of the Northwest 1/4 of the Northeast 1/4; thence North 0°40'39" West along said East line, 601.54 feet to a point on the South line of Lawnsdale Road (C.T.H. "I"); thence South 89°37'17" West along said South line, 659.59 feet to the place of beginning.
EXCEPT all of Certified Survey Map No. 8639 recorded as Document No. 2369091.
ALSO
All that part of the West 1/2 of the Northeast 1/4 of Section 30, Township 6 North, Range 20 East, in the City of New Berlin, County of Waukesha, State of Wisconsin, bounded and described as follows:
Beginning at the Southwest corner of the Northeast 1/4 of Section 30; thence North 88°49'08" East along the South line of said Northeast 1/4, 1313.345 feet; thence North 0°40'39" West along the East line of the West 1/2 of the Northeast 1/4, 1999.927 feet; thence South 43°36'35" West, 942.56 feet to the Northeast corner of the Northwest 1/4 of the Southwest 1/4 of said Northeast 1/4; thence South 0°44'30" East along the East line of said Northwest 1/4 of the Southwest 1/4 of the Northeast 1/4, 465.416 feet; thence South 57°32'04" West, 772.609 feet to a point on the West line of said Northeast 1/4; thence South 0°48'23" East along said West line, 464.333 feet to the place of beginning.
EXCEPTING THEREFROM that part set forth in Warranty Deed dated December 28, 1984 and recorded December 31, 1984, on Reel 649, Image 492, as Document No. 1282313.
ALSO
The Southeast 1/4 of the Northeast 1/4 of Section 30, Township 6 North, Range 20 East, in the City of New Berlin, County of Waukesha, State of Wisconsin.

For informational purposes only:
Property Address: 20203 West Lawnsdale Road, New Berlin, WI 53146
Tax Key Number: NBC 1266.995 (Parcel A) and NBC 1269.997 (Parcel B)

Gap

Issued by Knight Barry Title, Inc., agent for FIRST AMERICAN TITLE INSURANCE COMPANY

File Number: 2247147
Attached to Policy No.:

Notwithstanding the provisions of Paragraph 1 of Schedule B, Part 2 of the commitment, policies issued or issuable within 30 days from the effective date hereof shall not contain as exceptions matters arising subsequent to the effective date of this commitment unless:

1. The Company discloses such matters prior to the closing to the person for whom this commitment is prepared; or
2. The conveyance to the Insured is by a grantor who does not warrant title; or
3. The proposed insured or his counsel fails to notify the Company of closing at least three business days prior to the closing; or
4. The conveyance documents, in recordable form, are not made available or delivered to the Company or recorded within two business days after the closing; or
5. The seller or sellers fail to execute a personal undertaking and indemnity in favor of the Company regarding matters which may appear in the public records after the effective date of this commitment, in a form acceptable to the Company.

This endorsement is issued as part of the policy. Except as it expressly states, it does not (i) modify any of the terms and provisions of the policy, (ii) modify any prior endorsements, (iii) extend the Date of Policy or (iv) increase the Amount of Insurance. To the extent a provision of the policy or a previous endorsement is inconsistent with an express provision of this endorsement, this endorsement controls. Otherwise, this endorsement is subject to all of the terms and provisions of the policy and of any prior endorsements.

Date: November 10, 2023

Ann Myers
Knight Barry Title, Inc.

FIRST AMERICAN TITLE INSURANCE COMPANY

278295

8/1154

Vol. 382 Page 279

Harvey Grober and Charles Grober

To

Grant
$1.00

Dated Aug. 22, 1945
Recorded Oct. 8, 1945
10:00 A.M.

WISCONSIN ELECTRIC POWER COMPANY

Grants the right, permission and authority to construct, erect and maintain a line of poles together with the necessary anchors, guy wires and brace poles and to string and maintain wires thereon for the purpose of supplying light, heat, power and signals, or for such other purpose as electric current is now or may hereafter be used upon, over and across our premises in the North east quarter of Section Thirty (30), Town Six (6) North, Range Twenty (20) East, Town of New Berlin, Waukesha County, Wisconsin

also to trim and keep trimmed all trees along the line upon our said premises so that they will clear wires strung not less than 18 feet above ground by as much as 5 feet, and so that the trees will not be-

(over)

(CA8L)

liable to interfere with the transmission of electricity over said line.

Permission is also granted said Company to enter upon said premises to do the work contemplated and to make repairs to said line when necessary.

It is understood and agreed that the entire agreement of the parties is contained in this instrument and that in the event the undersigned seeks to secure electric service from said line, such service will be rendered upon the completion and electrification of said line if required by, and then only under the conditions of the Company's rules and regulations and at the Company's authorized rates.

State of Wisconsin)
Milwaukee County)ss.

Personally came before me this 22nd day of August 1945 the above named Harvey Grober and Charles Grober, both single

to me known to be the personswho executed the foregoing instrument and acknowledged the same.

Seal.
Witnesses.
2

John F. Mueller, Notary Public,
Milwaukee Co., Wis.
My Commission Expires 6/6/48

(mc-23)

278296 8/1154

W. G. Wapp and Ruth F. Wapp Vol. 382 Page 281

To Grant
$1.00

Dated Aug. 30, 1945
Recorded Oct. 8, 1945
10:02 A.M.

WISCONSIN ELECTRIC POWER COMPANY

Grants the right, permission and authority to construct, erect and maintain a line of poles together with the necessary anchors, guy wires and brace poles and to string and maintain wires thereon for the purpose of supplying light, heat, power and signals, or for such other purpose as electric current is now or may hereafter be used upon and along that certain highway known as Private Road upon which our land abuts and upon over and across our premises in the Northeast quarter of Section Thirty (30) Town Six (6) North, Range Twenty (20) East, Town of New Berlin, Waukesha County, Wis.

of said highway and also to trim and keep trimmed all trees along the line upon our said premises so that they will clear wires strung not less than 18 feet above ground by as much as 5 feet, and so that the trees will not be

(over)

(OAGL)

liable to interfere with the transmission of electricity over said line.

Permission is also granted said Company to enter upon said premises to do the work contemplated and to make repairs to said line when necessary.

It is understood and agreed that the entire agreement of the parties is contained in this instrument and that in the event the undersigned seeks to secure electric service from said line, such service will be rendered upon the completion and electrification of said line if required by, and then only under the conditions of the Company's rules and regulations and at the Company's authorized rates.

State of Wisconsin)
Waukesha County)ss.

Personally came before me this 31st day of August, 1945 the above named W. G. Wapp and Ruth F. Wapp, his wife

to me known to be the personswho executed the foregoing instrument and acknowledged the same.

A. H. Frank, Notary Public,
Waukesha Co., Wis.
My Commission Expires 11/9/47

Seal.
2 Witnesses. (mc-23)

mlmk

320608

8/117+

Willard G. Wapp, Sr., and Ruth Wapp (wife)

482 **Deeds** 350

		D	Oct. 30, 1948
		R	Nov. 24, 1948
	Grant		2:06 P.M.
To	$1.00	**A**	Oct. 30, 1948

WISCONSIN ELECTRIC POWER COMPANY

Grants the right, permission and authority to construct, erect and maintain a line of poles together with the necessary anchors guy wires and brace poles and to string and maintain wires thereon for the purpose of supplying light, heat, power and signals, or for such other purpose as electric current is now or may hereafter be used upon along over and across our premises in the Northeast One Quarter (NE¼) of Section numbered Thirty (30) Township numbered Six (6) North of Range numbered Twenty (20) East, Town of New Berlin, Waukesha County, Wisconsin

(over)

also to trim and keep trimmed all trees along the line upon our said premises so that they will clear wires strung not less than 18 feet above ground by as much as 5 feet, and so that the trees will not be liable to interfere with the transmission of electricity over said line.

Permission is also granted said Company to enter upon said premises to do the work contemplated and to make repairs to said line when necessary.

It is understood and agreed that the entire agreement of the parties is contained in this instrument and that in the event the undersigned seeks to secure electric service from said line, such service will be rendered upon the completion and electrification of said line if required by, and then only under the conditions of the Company's rules and regulations and at the Company's authorized rates.

(jmw-22)

WARRANTY DEED. STATE BAR OF WISCONSIN—FORM NO. 1

VOL. 437 PAGE 594

323344

This Indenture, Made this 2nd day of March, A. D., 19 49,
between WILLARD G. WAPP and RUTH WAPP, as his wife, and also in her own right, part ies of the first part, and
LEONARD C. SHACKELFORD and REGINA SHACKELFORD, husband and wife, jointly, and to the survivor of them, part ies of the second part.

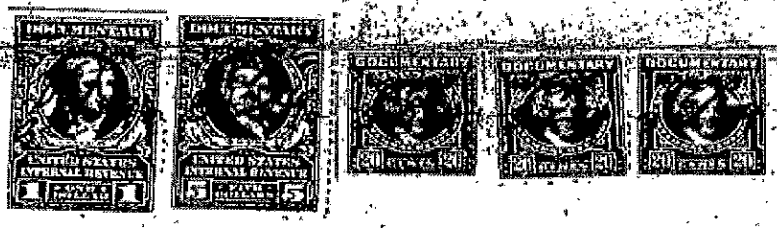
WITNESSETH, That the said part ies of the first part, for and in consideration of the sum of One Dollar and other good and valuable considerations

to them in hand paid by the said part ies of the second part, the receipt whereof is hereby confessed and acknowledged, ha ve given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said part ies of the second part, their heirs and assigns forever, the following described real estate, situated in the County of Waukesha and State of Wisconsin, to-wit:

The following described property situated in Section Thirty (30), Town Six (6) North, of Range Twenty (20) East, Town of New Berlin, Waukesha County, Wisconsin, to-wit:

Commencing at the Southeast corner of the Northeast Quarter of the Northeast Quarter (NE¼ of NE¼) of said Section 30; thence North, along the East line of said Section, 25 rods; thence West, parallel to the North line of said Section, 33⅓ rods; thence South, parallel to East line of said Section, 25 rods; thence East along the South line of said Northeast Quarter of the Northeast Quarter of said Section, 33⅓ rods to the place of beginning,
Excepting and reserving therefrom a strip of land One and one-half (1½) rods wide at the East end of said parcel of land.

ALSO an Easement, for the benefit of said parcel of land, as a right of way, over, and upon, the East 1½ rods of land of the Northeast Quarter of the Northeast Quarter of Section 30, Town Six North, Range 20 East,



TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining, and all the estate, right, title, interest, claim or demand whatsoever, of the said part ies of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described with the hereditaments and appurtenances, unto the said part ies of the second part, and to their heirs and assigns FOREVER.

AND THE SAID WILLARD G. WAPP and RUTH WAPP, as his wife, and also in her own right, for themselves, their heirs, executors and administrators, do covenant, grant, bargain and agree to and with the said part ies of the second part, their heirs and assigns, that at the time of the ensealing and delivery of these presents they are well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said part ies of the second part, their heirs and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, they will forever WARRANT AND DEFEND.

IN WITNESS WHEREOF, the said part ies of the first part ha ve hereunto set their hand s and seal s this 2nd day of March A. D., 19 49.

SIGNED AND SEALED IN PRESENCE OF

Eloise Larsen (Eloise Larsen)

E. M. Junemann (E. M. Junemann)

Willard G. Wapp (Willard G. Wapp) (SEAL)

(SEAL)

Ruth Wapp (Ruth Wapp) (SEAL)

(SEAL)

VOL 457 PAGE 595

STATE OF WISCONSIN,
Waukesha County } ss.

Personally came before me, this 2nd day of March, A. D., 19 49,
the above named Willard G. Wapp and Ruth Wapp, as his wife, and also in her own right,

to me known to be the person S who executed the foregoing instrument and acknowledged the same.

(Eloise Larsen)
Notary Public, Waukesha County, Wis.
My Commission expires Sept. 21, A. D., 19 52

ELOISE LARSEN NOTARY PUBLIC WAUKESHA COUNTY, WIS.

No.

WILLARD G. WAPP and RUTH WAPP, as his wife, and also in her own right,

TO

LEONARD C. SHACKELFORD and REGINA SHACKELFORD, husband and wife, jointly, and to the survivor of them.

WARRANTY DEED

REGISTER'S OFFICE,
STATE OF WISCONSIN, } ss.
WAUKESHA County.

Received for Record this 2nd day of MARCH A. D., 19 49 at 2 o'clock P M, and recorded in Vol. 457 of Deeds on page 594

Register of Deeds.

Deputy.

HARDY-RYAN ABSTRACT CO.
WAUKESHA, WIS.

323344

326678

8/93+
8/117+

Willard G. Wapp and Ruth Wapp, as his wife, and also in her own right — 495 Deeds 244

To	Easement $1.00 etc.	D R 8:15 A.M.	May 12, 1949 June 20, 1949
Leonard C. Shackelford and Regina Shackelford, husband and wife, jointly, and to the survivor of them		A	May 12, 1949

WITNESSETH, that the said parties of the first part, for and in consideration of the sum of One Dollar and other good and valuable considerations to them in hand paid by the said parties of the second part, the receipt whereof is hereby confessed and acknowledged, do grant an Easement, only, over the following described real estate situated in the County of Waukesha, State of Wisconsin, to-wit:

A strip of land one and a half rods in width off the West side of that part of the South West Quarter of the South West Quarter of Section Twenty (20) in Township number Six (6) North of Range number Twenty (20) East in Waukesha County in Wisconsin that lies South of the highway running across the South West corner of said Section Twenty, said Strip of land commencing in the South West corner of said Section Twenty, and on the South line thereof and thence running North along the West line of said Section Thirty-five rods more or less until it intersects the said road and bounded on the West by the West line of said Section Twenty.

(over)

ALSO a parcel of land in the North West corner of Section number Twenty-nine (29) in the Town, County, Range and State aforesaid and bounded and described as follows, to-wit: Commencing at the North West corner of said Section Twenty-nine and thence running East on the Section line one and one half rods, thence South and parallel with the West line of said Section one rods, thence West and parallel with the North section line one and a half rods to Section line, thence North on Section line one rod to place of beginning.

Said Easement is for the purpose of traveling to, and from said highway and the following described real estate, said Easement being for the benefit of the following described real estate, and to run with said real estate, to-wit:

The following described property situated in Section Thirty (30), Town Six (6) North, of Range Twenty (20) East, Town of New Berlin, Waukesha County, Wisconsin, to-wit:

Commencing at the Southeast corner of the Northeast Quarter of the Northeast Quarter ($NE\frac{1}{4}$ of $NE\frac{1}{4}$) of Said Section 30; thence North, along the East line of said Section, 25 rods; thende West, parallel to the North line of said Section, $33\frac{1}{2}$ rods; thence South, parallel to the East line of said Section, 25 rods; thence East along the South line of said Northeast Quarter of the Northeast Quarter of said Section, $33\frac{1}{2}$ rods to the place of beginning, Excepting and reserving therefrom a strip of land One and one-half ($1\frac{1}{2}$) rods wide at the East end of said parcel of land.

(The aforementioned Easement granted herein is not intended to give the grantees herein the exclusive right to travel the strip of land first hereinbefore mentioned, but is intended only to give said grantees herein, and those subsequently in privity with them, the right, with the grantors herein, and those subsequently in privity with the grantors herein, to travel over said strip of land.) sa-13)

SEP 15 00 0 0 0 3 0 3

2590316

HOLD HARMLESS AGREEMENT

Document Number | Document Title

REGISTER'S OFFICE
WAUKESHA COUNTY, WI
RECORDED ON

09-15-2000 9:51 AM

MICHAEL J. HASSLINGER
REGISTER OF DEEDS

REC. FEE: 10.00
REC. FEE-CO: 4.00
REC. FEE-ST: 2.00
TRAN. FEE:
TRAN. FEE-STATE:
PAGES: 4

Recording Area

Name and Return Address

Paul F. Reilly
720 Clinton Street
Waukesha, WI 53186

HOLDING TANK HOLD HARMLESS AGREEMENT

This Agreement is made and entered into this 14 day of September, 2000, by and between the City of New Berlin, (hereinafter called the "municipality") and Kasco Partnership (hereinafter called the "owner").

The parties hereto acknowledge that application is being made for the installation of (a) holding tank(s) on the following described property:

1266995
Parcel Identification Number (PIN)

LEGAL DESCRIPTION ATTACHED

ADDRESS 20203 W. Lawnsdale Rd. New Berlin, WI

TAX KEY NO. 1266995

or in the alternative, acknowledge that continued use of the existing premises requires that a holding tank be installed on the property for the purpose of proper containment of sewage. The parties also acknowledge that said property cannot now be served by a municipal sewer, any other type of private sewage system as permitted under s. Comm. 83, Wis. Adm. Code, or Chapter 145, Wis. Stats., and that the property does not contain an area of soil suitable for any other type of private sewage system as permitted by s. Comm. 83, Wis. Adm. Code.

Therefore, as an inducement to the County of Waukesha to issue a sanitary permit for the above described premises, we hereby agree and bind ourselves and our successors and assigns as follows:

1. Owner agrees to conform to all applicable requirements of s. Comm. 83, Wis. Adm. Code and Section 11.10 of the New Berlin Municipal Code relating to holding tanks. If the owner fails to have the holding tank properly serviced in response to orders issued by the municipality, the municipality may enter upon the property and service the tank or cause to have the tank serviced and charge the owner by placing the charges on the tax bill as a special assessment for current services rendered. The charges will be assessed as prescribed by sec. 66.60, Stats.

2. New buildings and new structures to be served by holding tanks shall include the installation of water meters to measure the flows of water so as to allow comparisons to the data of holding tank pumping reports. A water meter required under this paragraph shall be installed in accordance with s. comm. 83.18(10).

3. Owner agrees to pay all charges and costs incurred by the municipality for inspection, pumping, hauling or otherwise servicing and maintaining the

SEP 15 00 0 0 0 3 0 4

holding tank including reasonable and necessary attorney fees, so as to prevent or abate any nuisance or health hazard caused by the holding tank. The municipality shall notify the owner of any costs which shall be paid by the owner within thirty (30) days. The owner hereby specifically agrees that all of the costs and charges may be placed on the tax roll as a special assessment for the abatement of human health hazard, and the special assessment shall be collected as provided by Wisconsin statute.

4. The owner agrees to contract with a person who is licensed under s. NR 113, Wis. Adm. Code to have the holding tank serviced and to file a copy of the contract or their registration with the municipality and with the County. The owner further agrees to file a copy of a new service contract with the municipality and with the County within ten (10) business days from the date of change to the new service contractor.

5. The owner agrees to contract with a person licensed under s. NR 113, Wis. Adm. Code who shall submit to the municipality and to the County a report in accordance with s. Comm. 83.18(4)(a)2, Wis. Adm. Code for the servicing on a semiannual basis. The owner shall submit the report to the municipality and the County. The municipality may enter upon the property to investigate the condition of the holding tank when pumping reports and meter readings may indicate that the holding tank is not being properly maintained.

6. This agreement will remain in effect only until the local governmental unit responsible for the regulation of private sewage systems certifies that the property is served by either a municipal sewer or a soil absorption system that complies with s. Comm. 83, Wis. Adm. Code. In addition, this agreement may be cancelled by executing and recording said certification with reference to this agreement in such manner which will permit the existence of the certification to be determined by reference to the property.

7. This agreement shall be binding upon the owner, the heirs of the owner, successors and assignees of the owner. The City shall record the agreement with the Register of Deeds which shall be recorded by the Register of Deeds in a manner which will permit the existence of the agreement to be determined by reference to the property where the holding tank is installed. By signing this agreement the owner shall continue to be responsible in addition to heirs, successors and assigns until and unless the heirs, successors or assigns have entered into a holding tank agreement with the City of New Berlin.

8. We guarantee that the holding tank contents will be disposed of at a site meeting the requirements of s. NR 113, Wis. Adm. Code.

9. This agreement shall not be valid until the owner has tendered payment to the City for the cost of recording this agreement.

Dennis Kasian
Owner

Dennis Kasian Kasco Partnership
Owner

STATE OF WISCONSIN)
)S.S.
WAUKESHA COUNTY)

Personally came before me this 14 day of SEPT, 2000 the above named Dennis Kasian, to me known to be the person(s) who signed before me the foregoing Release and acknowledged the same.

Notary Public, State of Wisconsin
My Commission Expires: [illegible] 2003

NOTARY PUBLIC STATE OF WISCONSIN

SEP 15 00 0 0 0 3 0 5

Ed Balko
City Plumbing Inspector

STATE OF WISCONSIN)
)S.S.
WAUKESHA COUNTY)

Personally came before me this 14 day of Sept, 2000, the above named Ed Balko, to me known to be the person(s) who signed before me the foregoing Release and acknowledged the same.

Notary Public, State of Wisconsin
My Commission Expires: June 01 2003

This document was drafted by
Attorney Paul F. Reilly
HIPPENMEYER, REILLY & MOODIE, S.C.
720 Clinton Street
P.O.Box 766
Waukesha WI 53187-0766

SEP 15 00 0 0 0 3 0 6

RE0020 • 2001 REAL ESTATE LEGAL DESCRIPTION 09/14/00

KEY # 1266995 NUMBER OF LEGAL LINES 12

====>

20203 W LAWNSDALE RD
PT NW.25 SEC 29 T6N R20E COM
AT NW COR OF NW.25 SEC 29, TH
S 0 DGR 32'58" E 92.77 FT/BGN
TH S 0 DGR 32'58" E 2010.98 FT
TH N 88 DGR 58'50" E 704 FT,TH
N 0 DGR 3'10" E 2003.16 FT, TH
S88 DGR 37'17" W 725.04 FT/BGN
TOGETHER WITH INTEREST IN 13
FT & 22 FT GORE ON E & S SIDES
OF PARCEL
R2387 I102 R2849 I47 2/24/99
City of New Berlin

Appendix E | Baseline Hydrology Monitoring

Chart 1. 2024 Antecedent Precipitation Analysis - Mill Creek Wetland Mitigation Bank
Precipitation Data and 30-Year Normal Data from Waukesha WWTP Weather Station

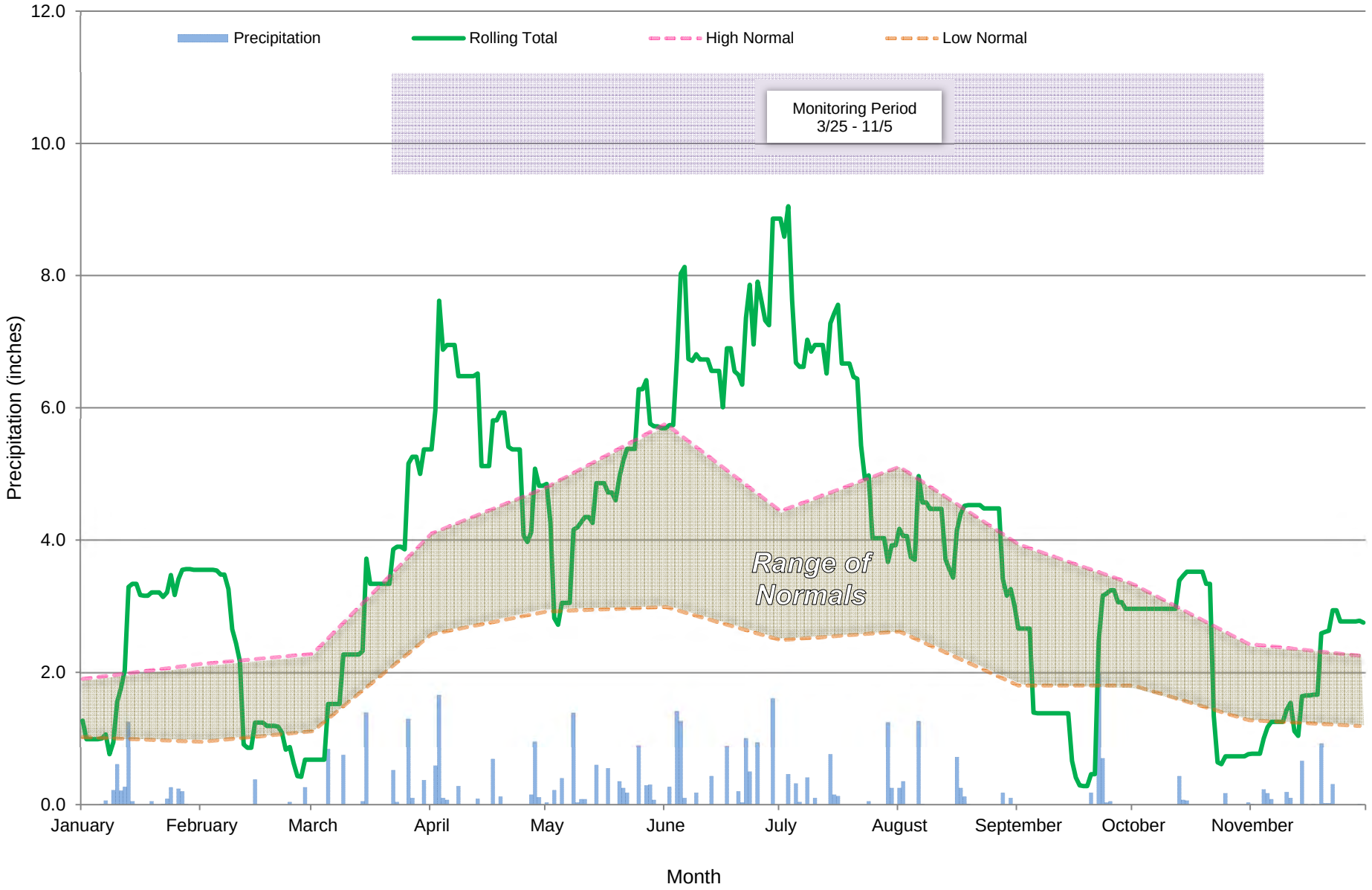


Table E-1. Monthly Precipitation (Inches) Compared to Long-term Averages and Precipitation Probabilities

Month	2024[1]	Long-term Average[2]	30% Less Probability	30% More Probability	2024 Difference (Actual-Average)	Wet/Dry/Normal Month[3]
January	3.55	1.58	1.02	1.90	1.97	Wet
February	0.68	1.74	0.95	2.13	-1.06	Dry
March	5.37	1.88	1.11	2.28	3.49	Wet
April	4.82	3.50	2.58	4.10	1.32	Wet
May	5.72	4.07	2.92	4.80	1.65	Wet
June	8.86	4.77	2.99	5.76	4.09	Wet
July	3.92	3.71	2.49	4.44	0.21	Normal
August	3.26	4.22	2.62	5.11	-0.96	Normal
September	2.96	3.23	1.8	3.94	-0.27	Normal
October	0.76	2.77	1.8	3.33	-2.01	Dry
November	2.75	2.02	1.28	2.43	0.73	Wet
Total	**39.10**	**31.91**	**20.54**	**38.32**	**9.16**	**Wet**

[1]2024 precipitation data obtained from the Waukesha WWTP, WI weather station (AgACIS 2024).

[2]Long term average monthly precipitation data obtained from the Waukesha WWTP, WI weather station WETS table for 1994-2023 (AgACIS 2024).

[3]Wet/Dry/Normal month determined by comparing actual precipitation to 30% threshold values in the WETS Table.

Table E-2. Winter Snowfall (Inches) Compared to Long-term Average

	Snowfall (inches)
2023-2024[1]	30.0
Average[2]	37.4
Difference (Actual - Average)	**-7.4**

[1]2023-2024 snowfall data obtained from the Waukesha WWTP, WI weather station (AgACIS 2024).

[2]Average snowfall data obtained from the Waukesha WWTP, WI weather station WETS Table for 1994-2023 (AgACIS 2024).

Table E-3. Mill Creek Wetland Mitigation Bank Water Level Summary Statistics, March 25 - November 5, 2024[1]

Well ID	Mean (feet)	Median (feet)	Max (feet)	Min (feet)[2]	Lower Quartile (feet)	Upper Quartile (feet)	Interquartile Range (feet)
MW1	-1.2	-1.1	0.0	-2.7	-1.8	-0.5	1.3
MW2	-2.1	-2.2	-1.4	-2.3	-2.3	-2.1	0.2
MW3	-2.3	-2.2	-1.6	-2.9	-2.6	-2.0	0.6
MW4	-0.9	-0.8	-0.1	-2.0	-1.2	-0.5	0.7
MW5[3]	-1.8	-1.8	-1.2	-2.4	-2.0	-1.7	0.3
MW6	-1.2	-1.2	-0.1	-2.5	-1.6	-0.9	0.7

[1]Water levels are summarized as depth to water from the ground surface. Negative values indicate depth below ground surface; positive values indicate water levels above ground surface.

[2]Minimum water level measurements are restricted to the depth of the well.

[3]The data logger at MW5 broke after the download on 8/23/2024 and no data was collected after that date.

Table E-4. Mill Creek Wetland Mitigation Bank Water Level Threshold Summary Statistics, March 25 - November 5, 2024

Well ID	Water Table[1] Frequency[2] within 12 Inches of the Surface	Inundation[3] Frequency[2]	Max. Duration[4] of Water Table[1] within 12 inches of the Surface (Days)	Number of Water Table[1] Events within 12 Inches of the Surface with Durations[4] ≥ 14 Days	Max. Duration[4] of Inundation[3] (Days)	Number of Inundation[3] Events with Durations[4] ≥ 14 Days
MW1	46.0%	1.8%	81	1	2	0
MW2	0.0%	0.0%	0	0	0	0
MW3	0.0%	0.0%	0	0	0	0
MW4	59.3%	0.0%	81	2	0	0
MW5[5]	0.0%	0.0%	0	0	0	0
MW6	36.7%	0.0%	50	1	0	0

[1]Water table is the recorded presence of free water within the monitoring well.

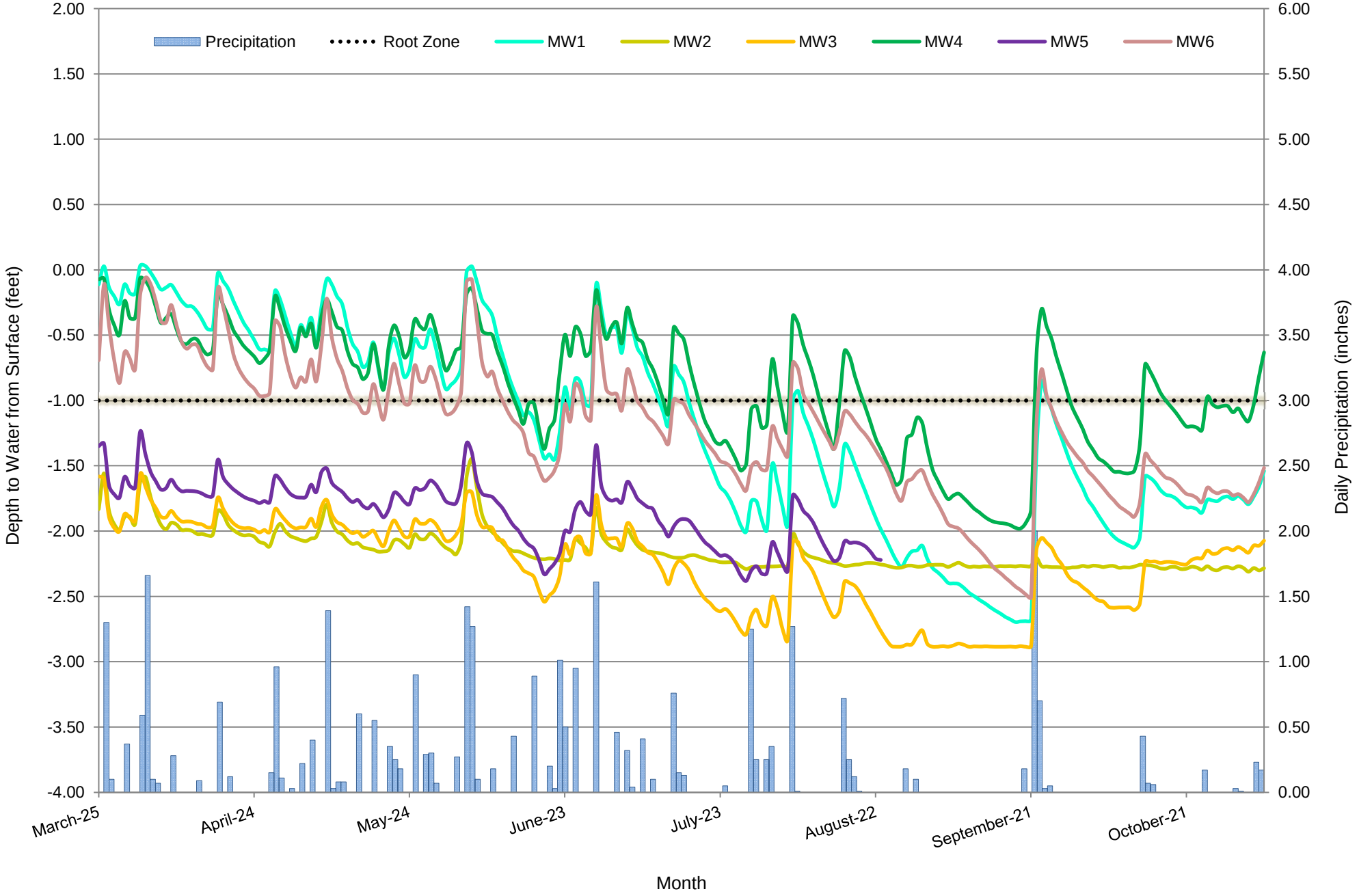
[2]Frequency is defined as the percentage of time water levels are at or above the specific threshold.

[3]Inundation is defined as free water at or above the ground surface.

[4]Max. duration is defined as the maximum, continuous length of time where water levels are at or above the specific threshold.

[5]The data logger at MW5 broke after the download on 8/23/2024 and no data was collected after that date.

Chart 2. Water Level Hydrograph - Mill Creek Wetland Mitigation Bank
March 25 - November 5, 2024



Appendix F | Wetland Delineation Report

Assured Wetland Delineation Report

Tree Farm Property

City of New Berlin, Waukesha County, Wisconsin

February 7, 2025

Project Number: 20241185

506 Springdale Street | Mount Horeb, WI 53572 | www.heartlandecological.com

Tree Farm Property

City of New Berlin, Waukesha County, Wisconsin

February 7, 2025

Prepared for:

Mr. Austin Workman

Workman Enterprises LLC

P.O. Box 510722

New Berlin, WI 53151

Prepared by:

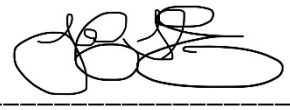
Heartland Ecological Group, Inc.

506 Springdale Street

Mount Horeb, WI 53572

608-490-2450

www.heartlandecological.com



Preparation Assistant:

Jenny Grimes, Senior Ecologist

Lead Investigator and Final Reviewer:

Matthew Stangel, Senior Scientist

Table of Contents

1.0 Introduction

Heartland Ecological Group, Inc. ("Heartland") completed an assured wetland determination and delineation on the Tree Farm Property site on July 26, 2024 at the request of Workman Enterprises LLC. Fieldwork was led by Matthew Stangel, an assured delineator qualified via the Wisconsin Department of Natural Resources' (WDNR's) Wetland Delineation Assurance Program (Appendix E, Qualifications), and assisted by Eric C. Parker, SPWS and Mikayla Datka. The 102.64-acre site (the "Study Area") is southwest of the intersection of West Lawnsdale Road and Kohler Court, in the northeast ¼ of Section 30 and northwest ¼ of Section 29, T6N, R20E, City of New Berlin, 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. Installation of water monitoring wells (for recording the water table in the 2024 early growing season) and a historic aerial imagery analysis was necessary to assess historic conditions and determine wetlands based on the site conditions and drainage system functionality.

Two (2) wetland areas totaling approximately 30.33 acres were delineated and mapped within the Study Area (Figure 7, Appendix A). Mill Creek and eight (8) of its tributary unnamed waterways were also identified and mapped within the Study Area. A historically excavated pond was also noted and mapped in the eastern portion of 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 on a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology.

Atypical conditions were encountered within the Study Area due to the presence of Silvicultural Lands (a tree farm) which includes a system of drainage ditches and drain tiles to manipulate the water table and improve conditions for growing various tree species. Therefore, procedures described in Chapter 5 of the Regional Supplement were used and monitoring wells were installed during the early growing season at strategic locations within the Study Area and observed over an appropriate period to document water table fluctuations.

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 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 Pro™ 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.

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 950 feet above mean sea level (msl) near the northwest corner, and a topographic low of approximately 884 feet above msl near the tile outlet in the central portion of the southern boundary (Figures 2, 6, and 7, Appendix A). Land use within the Study Area is comprised of a former tree farm and surrounding areas are primarily agricultural row cropping with residential, pasture, and woodland areas also present. General drainage is to the south and west toward Mill Creek, which lies adjacent to the southern boundary of the Study Area.

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
HmB2: Hochheim loam, 2-6% slopes, eroded	Hochheim-Eroded	80-91	Drumlins	No
	Theresa-Eroded	6-12	Till plains	No
	Lamartine	3-8	Drumlins	No
HmE2: Hochheim loam, 20-30% slopes	Hochheim	80-91	Moraines	No
	Theresa-Eroded	6-12	Moraines	No
	Casco	3-8	Moraines	No
HtA: Houghton muck, 0-2% slopes	Houghton-Muck	84-95	Depressions	Yes
	Houghton-Ponded	2-5	Depressions	Yes
	Palms	1-3	Lakebeds (relict)	Yes
	Adrian	1-3	Lakebeds (relict)	Yes
	Willette-Muck	0-3	Depressions	Yes
	Edwards	1-2	Depressions	Yes

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
KlA: Kendall silt loam, 1-3% slopes	Kendall-Till substratum	85-95	[no data]	No
	Pella	2-6	[no data]	Yes
	Lamartine	2-5	[no data]	No
	St. Charles-Till substratum	1-4	[no data]	No
MgA: Martinton silt loam, 1-3% slopes	Martinton	90	Drainageways	No
	Montgomery	7	Depressions	Yes
	Saylesville	3	Rises	No
Oc: Ogden muck	Ogden	100	Depressions, lakebeds	Yes
Pa: Palms muck, 0-2% slopes	Palms-Muck	75-95	Inter-drumlins	Yes
	Houghton-Muck	3-15	Depressions	Yes
	Adrian	2-10	Inter-drumlins	Yes
Ph: Pella silt loam, 0-2% slopes	Pella	80-91	Drainageways	Yes
	Kendall	5-9	Drainageways	No
	Lamartine	4-8	Drainageways	No
	Palms-Muck	1-3	Depressions	Yes
Ru: Edwards muck, 0-2% slopes	Edwards-Muck	87-95	Depressions	Yes
	Houghton-Muck	3-8	Depressions	Yes
	Palms-Muck	1-2	Depressions	Yes
	Adrian-Muck	1-3	Depressions	Yes
ThB2: Theresa silt loam, 2-6% slopes, eroded	Theresa-Eroded	80-90	Drumlins	No
	Hochheim-Eroded	9-15	Drumlins	No
	Lamartine	1-5	Drumlins	No
ThC2: Theresa silt loam, 6-12% slopes, eroded	Theresa-Eroded	80-95	Drumlins	No
	Hochheim-Eroded	5-17	Drumlins	No
	Lamartine	0-3	Drumlins	No

Wetland Mapping

The Wisconsin Wetlands Inventory (WWI) mapping (Figure 5, Appendix A) depicts six (6) wetland areas within the Study Area. One (1) forested and emergent (T3/E2K) wetland is shown in the eastern section of the Study Area adjacent to an intermittent waterway (WBIC: 5036880), one (1) shrub scrub/emergent (S3/E1K) wetland complex that is adjacent to the entire eastern and southern borders of the Study Area associated with Mill Creek (WBIC: 769700), one (1) shrub scrub (S3K) wetland adjacent to an unnamed intermittent waterway in the northcentral portion of the site, one (1) flat/unvegetated (F0Kf) wetland adjacent to an intermittent waterway (WBIC: 5036814) in the southcentral portion of the site, one (1) forested (T3K) wetland is shown in the northwest corner, and one (1) forested and emergent (T3/E2K) wetland is shown in the southwest corner of the Study Area.

Waterway Mapping

The WDNR's Rivers and Streams data layer (Figure 5, Appendix A) depicts a network of ditched waterways that intersect Mill Creek within the Study Area. These waterways are mapped from east to west across the Study Area: one (1) intermittent waterway (WBIC: 5036880) is shown in the eastern section that flows west and south until it connects with Mill Creek (WBIC: 769700), which is shown in the southeastern corner and flowing west and south adjacent to the southern site boundary of the Study Area; one (1) unnamed intermittent waterway in the northcentral portion of the site that flows east along the northern property border before flowing south toward Mill Creek, and one (1) intermittent waterway (WBIC: 5036814) flowing north to south in the central portion of the site until it flows east to connect with Mill Creek along the southern border of the Study Area.

Previous Delineations and Landowner Contacts

Heartland is aware of one (1) wetland delineation that was completed in the Study Area approximately ten (10) years ago by Stantec Consulting Services, however, a copy of the report was not obtained. The property was not managed by the previous owner for approximately 10 years, and the current owner, Workman Enterprises, is now managing the vegetation on the property and reviewing potential uses.

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 as a tree farm with ditched waterways for the entire review period.

Monitoring Wells

As the Study Area has historically been used as a tree farm, hydrology has been modified by a system of ditches and drain tiles which has allowed for better growing conditions within the organic (hydric) soils. Six (6) monitoring wells were installed on March 15, 2024 in an east/west transect across the Study Area. Locations of monitoring wells are shown on Figure 7, Appendix A. At the time of well installation, all of these areas were observed to have hydric soils of organic nature, indicating historic wet conditions.

Monitoring well data was collected from March 25 – June 20, 2024 to determine wetland hydrology status within the early growing season, when conditions are typically wettest throughout the year. Of the six (6) wells, three (3) consistently recorded water tables within 12 inches of the surface, while three (3) had no events where the water table rose to within 12 inches of the surface. The hydrograph for all six monitoring wells is included in Appendix G. Therefore, wetland hydrology was determined to be present at MW1, MW4, and MW6, while the areas around MW2, MW3, and MW5 are presumed to be sufficiently drained to no longer support wetland hydrology. Based on the monitoring well data, the primary wetland hydrology indicator of Gauge or Well Data (D9) was noted at three sample points (P1, P20, and P27) which were collected next to the monitoring well locations.

3.2 Field Review

Two (2) wetlands were identified and delineated within the Study Area. Wetland determination data sheets (Appendix C) were completed at 33 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. 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 wetlands are 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	Wet Meadow / Shallow Marsh	Contiguous with Mill Creek	Moderately susceptible, 50 feet	29.31
W-2	Wet Meadow	Potentially isolated	Less susceptible, 10-30 feet	1.02
**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.*				**30.33**

Wetland 1 (W-1)

Wetland W-1 is a 29.31-acre wet meadow / shallow marsh wetland complex that is contiguous to other wetlands and ditched waterways within the Study Area. A small portion of W-1 includes trees which were previously planted for a tree farm operation. The boundary of W-1 generally followed a moderately well to poorly defined topographic break and follows the ditched waterways. Wetland hydrology was verified with monitoring wells installed early in the 2024 growing season.

Dominant vegetation observed in W-1 included box elder (*Acer negundo*, FAC), sandbar willow (*Salix interior*, FACW), silver maple (*Acer saccharinum*, FACW), swamp white oak (*Quercus bicolor*, FACW), prairie crabapple (*Pyrus ioensis*, UPL), Bebb's willow *(Salix bebbiana*, FACW), reed canary grass (*Phalaris arundinacea*, FACW), spotted touch-me-not (*Impatiens capensis*, FACW), common beggar's ticks (*Bidens frondosa*, FACW), purple-stem angelica (*Angelica atropurpurea*, OBL), white avens (*Geum canadense*, FAC), shining aster (*Symphyotrichum puniceum*, OBL), panicled aster (*Symphyotrichum lanceolatum*, FAC), bittersweet nightshade (*Solanum dulcamara*, FAC), Canadian goldenrod (*Solidago canadensis*, FACU), narrow-leaf cattail (*Typha angustifolia*, OBL), and hybrid cattail (*Typha X glauca*, OBL). Therefore, the wetland vegetation parameter was met.

The following hydric soil indicators were observed within sample points observed within W-1: Histosol (A1) was noted at P1, P5, P11, P17, P25, P29; 2 cm Muck (A10) was noted at

P1, P2, P11, P29; Thick Dark Surface (A12) was noted at P31; Drift Deposits (B3) were noted at P5; Depleted Matrix (F3) was noted at P2; Sandy Mucky Mineral (S1) was noted at P14; and Loamy Mucky Mineral (F1) was noted at P14, P17, P31. Thus, the hydric soil parameter was met.

The primary wetland hydrology indicator of Surface Water (A1) was noted at P25; High Water Table (A2) was noted at P14, P18, P25, P29; Saturation (A3) was noted at P14, P17, P18, P25, P29; Drift Deposits (B3) was noted at P5; and Gauge or Well Data (D9) was noted at P31 within W-1, while secondary indicators included Dry-Season Water table (C2) was noted at sample points P20 and P27; while Geomorphic Position (D2), a positive FAC-Neutral Test (D5), and monitoring well hydrology verification were noted at several sample points. Therefore, the wetland hydrology parameter was met.

Wetland 2 (W-2)

Wetland W-2 is a 1.02-acre wet meadow wetland that appears isolated within the landscape. The boundary of W-2 generally followed a moderately well to poorly defined topographic break. Wetland hydrology was verified with monitoring wells installed early in the 2024 growing season.

Dominant vegetation observed in W-2 included common burdock (*Arctium minus*, FACU), stinging nettle (*Urtica dioica*, FACW), and bittersweet nightshade. Therefore, the wetland vegetation parameter was met.

The Histosol (A1) and 2 cm Muck (A10) hydric soil indicators were observed within W-2. Thus, the hydric soil parameter was met.

There was no hydrology indicators observed, and the soil profile was dry. This area is in the zone of influence of nearby ditches with substantial depth. The monitoring wells installed on site show significant drainage influence in similar soils and landscape position under these wet 2024 conditions.

Waterways and Waterbodies

Eight (8) unnamed waterways (WW-1 through WW-8) and Mill Creek were observed within or immediately adjacent to the Study Area. One (1) pond (Pond 1) was observed within the Study Area. The approximate area of the waterways and pond are mapped on Figure 7, Appendix A.

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, 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 Tree Farm Property on July 26, 2024 at the request of Workman Enterprises LLC. 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 29, T6N, R20E, City of New Berlin, Waukesha County, WI (Figure 1, Appendix A).

Two (2) wetland areas were delineated and mapped within the 102.64-acre Study Area (Figure 7, Appendix A). The wetlands, which may be classified as wet meadow and shallow marsh, total approximately 30.33 acres within the Study Area.Mill Creek and eight (8) unnamed tributary waterways, and an excavated pond were observed and mapped within 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.

5.0 References

Deters, J. & Gutenson, J. (2021). Antecedent Precipitation Tool (APT) [Electronic Source: python source code]. See: https://github.com/erdc/Antecedent-Precipitation-Tool

Eggers, S. D., & D. M. Reed. (2014). *Wetland Plants and Plant Communities of Minnesota and Wisconsin* (V. 3.1). U.S. Army Corps of Engineers, Regulatory Branch, St. Paul, MN District. See: http://www.mvp.usace.army.mil/.

Environmental Laboratory (1987). *Corps of Engineers Wetlands Delineation Manual*, Tech. Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Google Earth™ Pro (2024). *Open Source Aerial Imagery.* Version 7.3.6.9796 (64-bit). Server: Kh.google.com.

Midwestern Regional Climate Center. (2014). *cli-MATE* [climate data access tool]. See: http://mrcc.isws.illinois.edu/CLIMATE/.

National Oceanic and Atmospheric Administration (NOAA). (2015) Regional Climate Centers Applied Climate Information System. *WETS table*. See: http://agacis.rcc-acis.org.

NOAA National Center for Environmental Information. (2018) *Historic Palmer Drought Indices*. See: https://www.ncdc.noaa.gov/temp-and-precip/drought/historical-palmers/psi/201512-201601.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture (USDA). (2018). *Soil Survey Geographic (SSURGO) Database*. See: http://websoilsurvey.nrcs.usda.gov/ or http://datagateway.nrcs.usda.gov/.

Soil Survey Staff, Natural Resources Conservation Service, USDA. (2018). *Web Soil Survey*. See: http://websoilsurvey.nrcs.usda.gov/.

U.S. Army Corps of Engineers (USACE) and Wisconsin Department of Natural Resources (WDNR). (March 2015). *"Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources"*. See: http://dnr.wi.gov/topic/wetlands/documents/FinalWisconsinDelineationGuidance.pdf.

USACE. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0*). (2010). ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-16. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

USACE. (2020). *National Wetland Plant List, version 3.5*. See http://wetland-plants.usace.army.mil.

USACE St. Paul District & Minnesota Board of Water & Soil Resources. (July 2016). *Guidance for Offsite Hydrology/Wetland Determinations*. See: http://www.mvp.usace.army.mil/Missions/Regulatory/Delineation/.

United States Department of Agriculture (USDA), Farm Service Agency (FSA). (2005, 2006, 2008, 2010, 2013, 2015, 2017, 2018, 2020, 2022) [Waukesha County, Wisconsin aerial photographs]. National Agriculture Imagery Program (NAIP). Salt Lake City, UT: Aerial Photography Field Office.

USDA, Natural Resource Conservation Service (NRCS). (2018). *Field Indicators of Hydric Soils in the United States*, Version 8.2. L.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA, NRCS in cooperation with the National Technical Committee for Hydric Soils.

United States Department of the Interior (USDI), U.S. Geological Survey (USGS). *Wisconsin 7.5 Minute Series (Topographic) Maps.* 1:24,000. Reston, VA.

USDI, USGS. National Hydrography Dataset (NHD) 24K scale data. See: https://nhd.usgs.gov/.

Willmott, C.J. and K. Matsuura. (2016). *Web-Based Water-Budget Interactive Modeling Program (WebWIMP).* University of Delaware Department of Geography. Newark, DE. See: climate.geog.udel.edu/~wimp/.

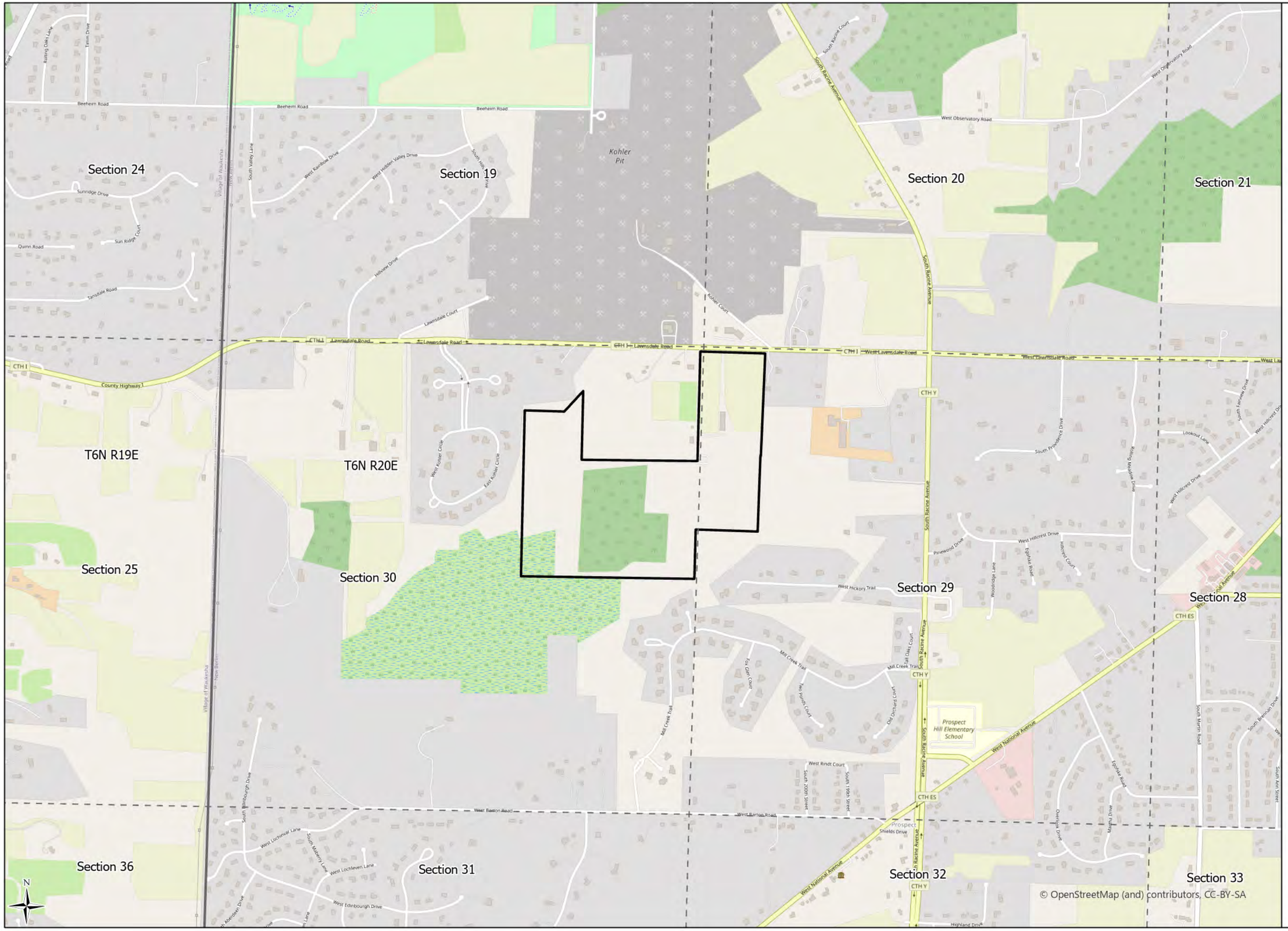
WDNR, Surface Water Data Viewer Interactive Web-mapping Tool. (2023). See: https://dnr.wi.gov/topic/surfacewater/swdv/.

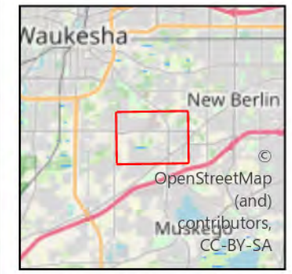
WDNR, Open Data Portal. (2023). [Wisconsin Wetland Inventory, 24k Hydro Flowlines (Rivers and Streams), Color-Stretch LiDAR and Hillshade Image Service Layer, Wetland Indicator Layer]. See: https://data-wi-dnr.opendata.arcgis.com/.

Woodward, D.E. ed. (1997). *Hydrology Tools for Wetland Determination*, WETS Analysis, Chapter 19. Engineering Field Handbook. USDA, NRCS, Fort Worth, TX.

Workman Enterprises LLC
Tree Farm Property
Project #: 20241185
February 7, 2025

Appendix A | Figures





Study Area (102.64 ac)
Township
Section

0 500 1,000 Ft

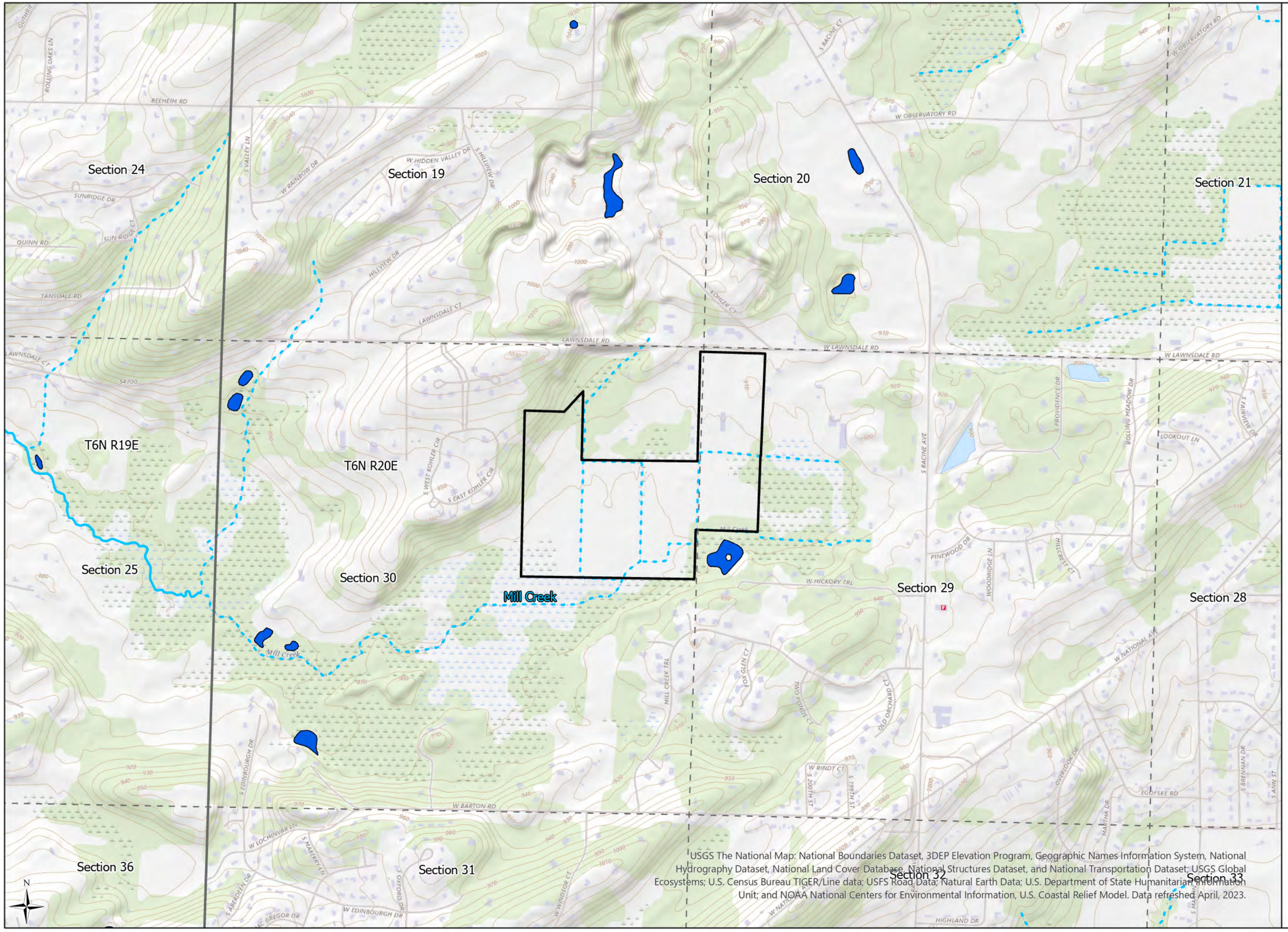
Heartland ECOLOGICAL GROUP INC

Figure 1. Project Location

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

OpenStreetMap
ESRI
LRR: NCNE

Figure Created: 1/30/2024

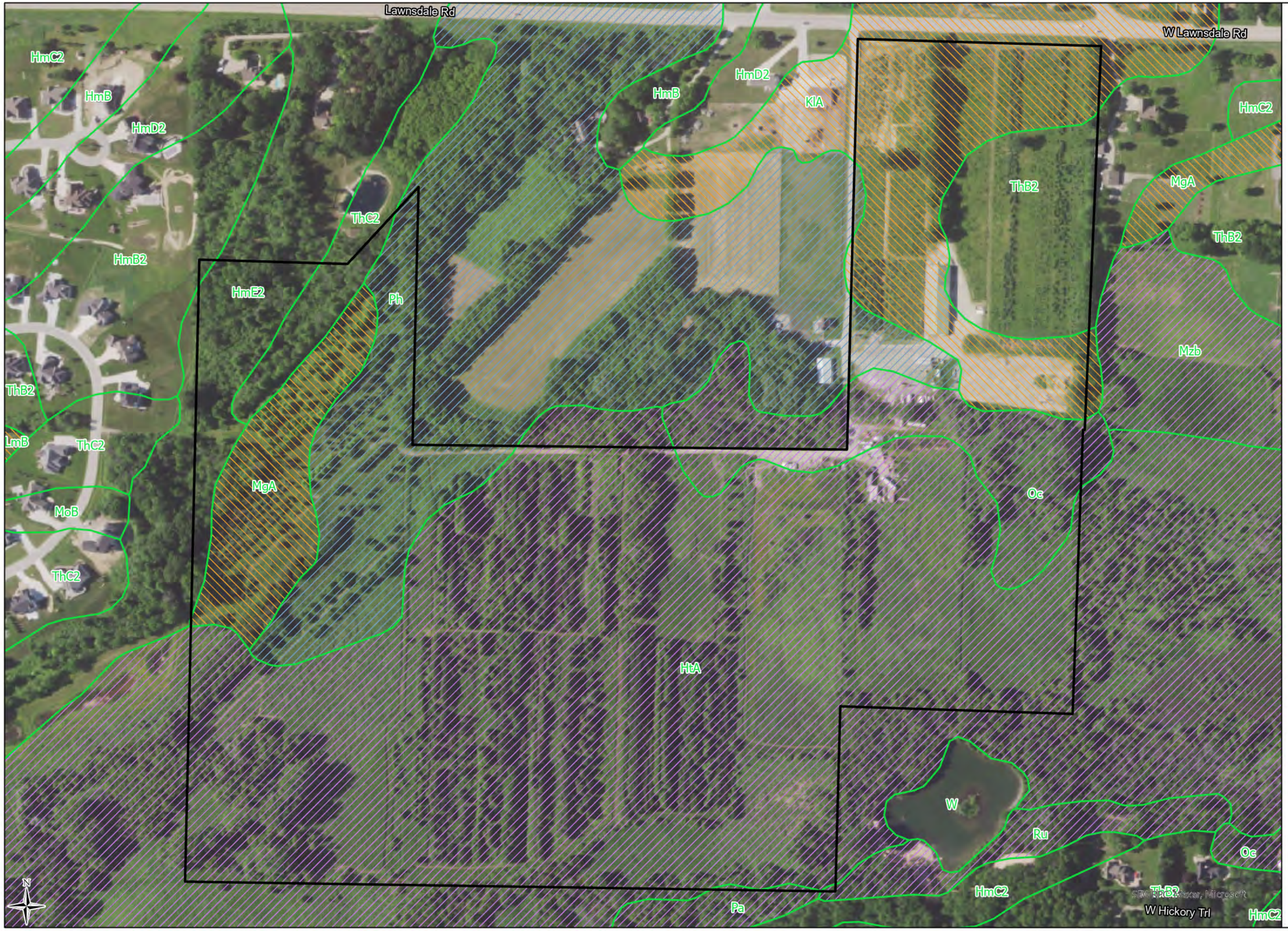


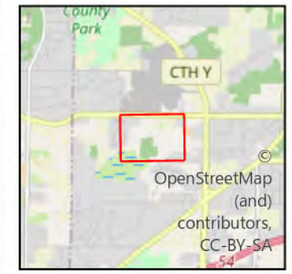
Heartland ECOLOGICAL GROUP INC

Figure 2. USGS Topography
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

USGSTopo
USGS
LRR: NCNE

Figure Created: 1/30/2024





Study Area (102.64 ac)

NRCS Soil Survey Data

- Hydric (100%)
- Predominantly Hydric (85-99%)
- Partially Hydric (16-84%)
- Predominantly Non-Hydric (1-15%)
- Non-Hydric (0%)

0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

Figure 3. NRCS Hydric Soils

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
NRCS LRR: NCNE

Figure Created: 1/30/2024

Study Area (102.64 ac)

SWDV Wetland Indicators

0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

Figure 4. SWDV Wetland Indicators

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
WDNR

LRR: NCNE

Figure Created: 1/30/2024

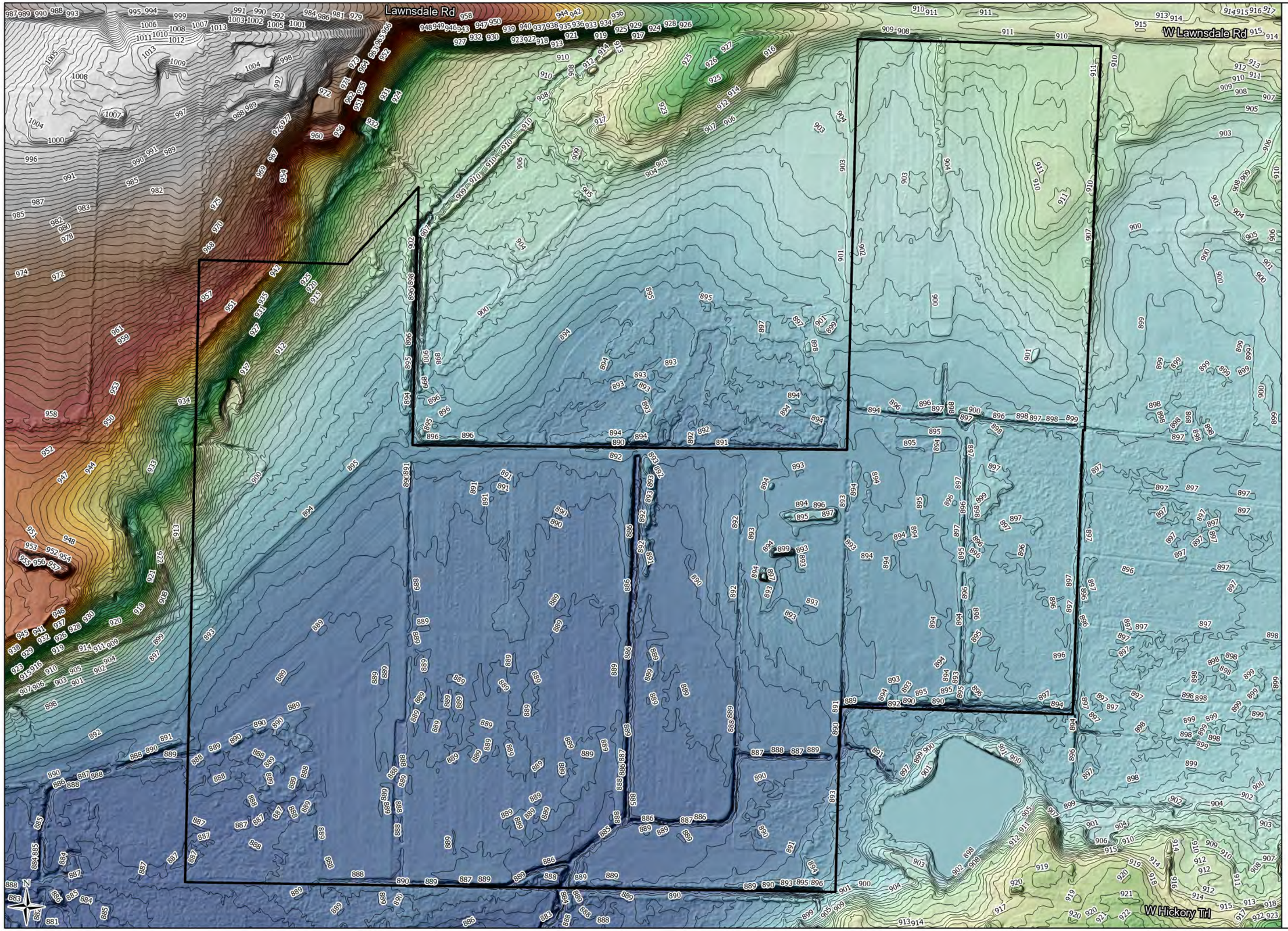
Heartland ECOLOGICAL GROUP INC

Figure 5. Wisconsin Wetland Inventory

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
WDNR, USGS
LRR: NCNE

Figure Created: 1/30/2024



Study Area (102.64 ac)

0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

Figure 6. Color-Stretch Digital Elevation Model

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

DNR Lidar Service
Waukesha Co., WDNR
LRR: NCNE

Figure Created: 1/30/2024

Heartland ECOLOGICAL GROUP INC

Figure 7. Field Delineated Wetland

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

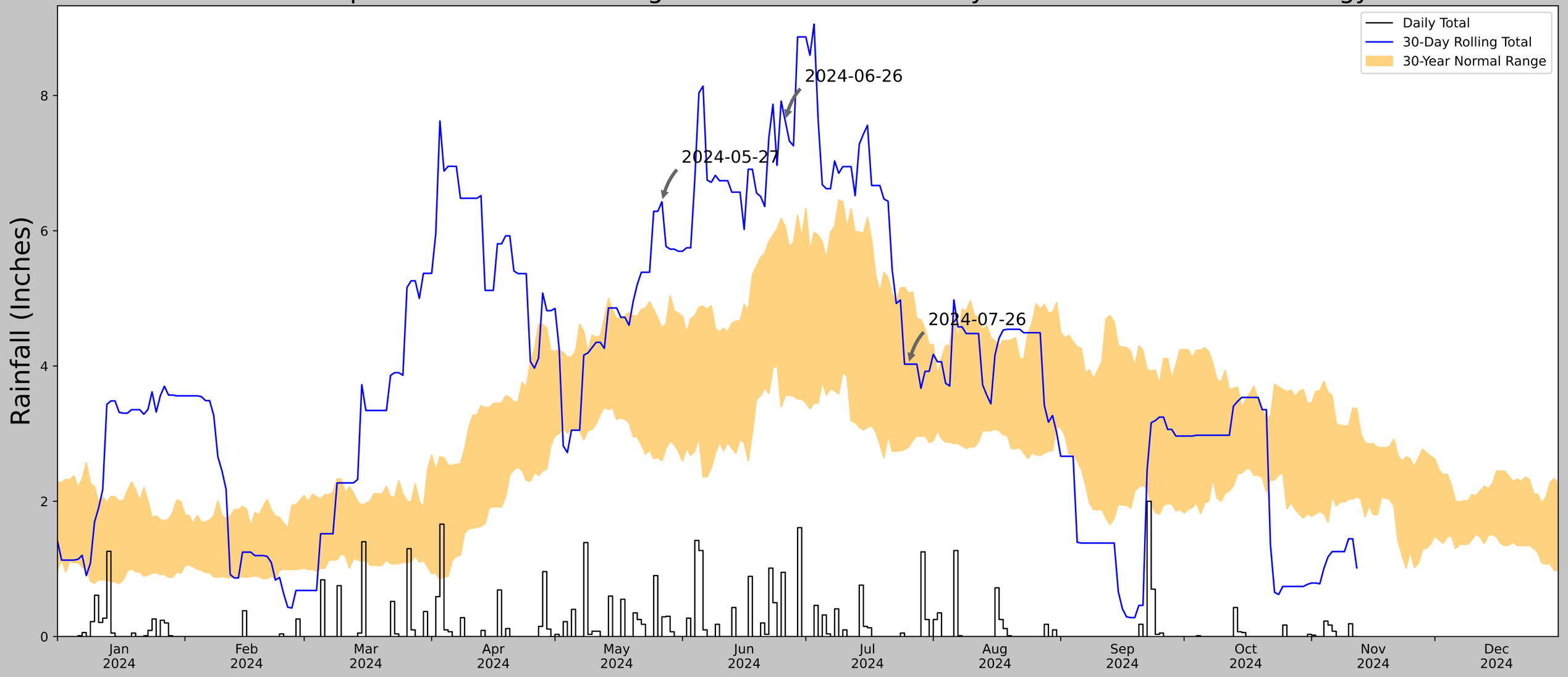
2022 NAIP
Dane Co, HEG
LRR: NCNE

Figure Created: 8/8/2024

Workman Enterprises LLC
Tree Farm Property
Project #: 20241185
February 7, 2025

Appendix B | APT Analysis

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



Coordinates	42.955499, -88.172509
Observation Date	2024-07-26
Elevation (ft)	891.52
Drought Index (PDSI)	Severe wetness
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-07-26	2.803543	5.075984	4.027559	Normal	2	3	6
2024-06-26	3.570473	6.057481	7.625984	Wet	3	2	6
2024-05-27	2.598425	4.562205	6.429134	Wet	3	1	3
Result							Wetter than Normal - 15

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
WAUKESHA WWTP	42.9986, -88.2525	801.837	5.022	89.683	2.71	11251	90
WAUKESHA 2.1 SSW	42.9847, -88.2531	816.929	0.961	15.092	0.447	19	0
WAUKESHA 1.6 NW	43.0287, -88.2609	967.848	2.123	166.011	1.308	15	0
WAUKESHA 1.6 NW	43.0307, -88.2584	979.003	2.238	177.166	1.404	1	0
WAUKESHA 2.0 NNW	43.036, -88.2596	926.837	2.609	125.0	1.5	7	0
BROOKFIELD WWTP	43.0522, -88.1775	830.053	5.298	28.216	2.534	6	0
W ALLIS	42.9981, -88.0242	772.966	11.537	28.871	5.525	44	0
MT MARY COLLEGE	43.0722, -88.0294	714.895	12.362	86.942	6.638	9	0

Appendix C | Wetland Determination Data Sheets

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P1

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 42.953528 Long: -88.173364 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Phalaris arundinacea*	100	Y	FACW
2. *Lythrum salicaria*	5	N	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	105.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	5.00	x 1 =	5.00
FACW species	100.00	x 2 =	200.00
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:	105.00 (A)		205.00 (B)

Prevalence Index = B/A = 1.95

Hydrophytic Vegetation Indicators:

✓ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

WM

SOIL

Sampling Point: P1

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	N 2.5/0	100					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ___

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

Wetland hydrology verified with monitoring wells in 2024 early growing season. Sample point located next to MW1.

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P2

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 42.953371 Long: -88.172925 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Acer negundo*	10	Y	FAC
2. *Salix interior*	5	Y	FACW
3.			
4.			
5.			
	15.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Phalaris arundinacea*	90	Y	FACW
2. *Phragmites australis*	15	N	FACW
3. *Scirpus cyperinus*	10	N	OBL
4. *Typha X glauca*	5	N	OBL
5. *Urtica dioica*	5	N	FAC
6.			
7.			
8.			
9.			
10.			
	125.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	15.00	x 1 =	15.00
FACW species	110.00	x 2 =	220.00
FAC species	15.00	x 3 =	45.00
FACU species	0.00	x 4 =	0.00
UPL species	0.00	x 5 =	0.00
Column Totals:	140.00 (A)		280.00 (B)

Prevalence Index = B/A = 2.0

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

WM

SOIL

Sampling Point: P2

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	N 2.5/0	100					MUCK	
6-10	10YR 4/1	85	10YR 5/6	15	C	M	SICL	
10-24	10YR 5/2	80	10YR 5/8	20	C	M	SIC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ___

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

Wetland hydrology verified with monitoring wells in 2024 early growing season.

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P3

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 42.953414 Long: -88.172678 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: F0Kf

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

Sample point located in an old tree farm. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tilia americana*	25	Y	FACU
2. *Quercus bicolor*	15	Y	FACW
3.			
4.			
5.			
	40.0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Acer negundo*	10	Y	FAC
2.			
3.			
4.			
5.			
	10.0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Elymus repens*	25	Y	FACU
2. *Cirsium arvense*	20	Y	FACU
3. *Impatiens capensis*	15	Y	FACW
4. *Urtica dioica*	15	Y	FAC
5. *Arctium minus*	15	Y	FACU
6. *PASTINACA SATIVA*	10	N	UPL
7. *Solanum dulcamara*	10	N	FAC
8. *Hesperis matronalis*	5	N	FACU
9. *Solidago canadensis*	5	N	FACU
10.			
	120.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	30.00	x 2 =	60.00
FAC species	35.00	x 3 =	105.00
FACU species	95.00	x 4 =	380.00
UPL species	10.00	x 5 =	50.00
Column Totals:	170.00 (A)		595.00 (B)

Prevalence Index = B/A = 3.5

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

SOIL

Sampling Point: P3

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	N 2.5/0	85					MUCK	
	10YR 3/2	15					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

Drained organic soil

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

MW2 did not display wetland hydrology during early 2024 growing season.

Remarks:

No hydrology indicators present.

Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P4

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.953143 Long: -88.171590 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
Sample point located in an old tree farm. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Malus ioensis*	10	Y	UPL
2.			
3.			
4.			
5.			
	10.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ambrosia trifida*	40	Y	FAC
2. *Urtica dioica*	30	Y	FAC
3. *Impatiens capensis*	20	Y	FACW
4. *Cirsium arvense*	10	N	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	100.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	20.00	x 2 =	40.00
FAC species	70.00	x 3 =	210.00
FACU species	10.00	x 4 =	40.00
UPL species	10.00	x 5 =	50.00
Column Totals:	110.00 (A)		340.00 (B)

Prevalence Index = B/A = 3.09

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P4

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-18	N 2.5/0	100					MUCK	
18-24	10YR 3/1	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

Drained organic soil

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ___ No ✓ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): ___

Wetland Hydrology Present? Yes ___ No ✓

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

MW2 did not display wetland hydrology during early 2024 growing season. No water table observed in MW2 during field visit.

Remarks:

No hydrology indicators present.

Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P5

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955173 Long: -88.172284 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
Sample point located in a hardwood swamp within a historically planted tree farm. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharinum*	50	Y	FACW
2. *Quercus bicolor*	40	Y	FACW
3.			
4.			
5.			
	90.0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Malus ioensis; Pyrus ioensis*	10	Y	UPL
2.			
3.			
4.			
5.			
	10.0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	5	Y	FACW
2. *Bidens frondosa*	5	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	10.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	100.00	x 2 =	200.00
FAC species	0.00	x 3 =	0.00
FACU species	0.00	x 4 =	0.00
UPL species	10.00	x 5 =	50.00
Column Totals:	110.00 (A)		250.00 (B)

Prevalence Index = B/A = 2.27

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

Malís ioensis appears stressed/dying. Herb stratum much more sparse than surrounding uplands.

SOIL

Sampling Point: P5

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	N 2.5/0	100					MUCK	
10-24	N 2.5/0	85					MUCK	
	10YR 3/2	15					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 20

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

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

Remarks:

SVCS present in some pockets throughout the surrounding wetland area.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P6

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954882 Long: -88.172090 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

Sample point located in an old tree farm. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Malus ioensis; Pyrus ioensis*	15	Y	UPL
2. *Acer negundo*	10	Y	FAC
3.			
4.			
5.			
	25.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ambrosia trifida*	60	Y	FAC
2. *Impatiens capensis*	20	Y	FACW
3. *Geum canadense*	10	N	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	20.00	x 2 =	40.00
FAC species	80.00	x 3 =	240.00
FACU species	0.00	x 4 =	0.00
UPL species	15.00	x 5 =	75.00
Column Totals:	115.00 (A)		355.00 (B)

Prevalence Index = B/A = 3.09

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P6

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

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

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** _____

Remarks:
Drained organic soil

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ **No** ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
MW2 did not display wetland hydrology during early 2024 growing season.

Remarks:
No hydrology indicators present.
Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P7

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex

Slope (%): 3-7 Lat: 42.955499 Long: -88.172509 Datum: WGS84

Soil Map Unit Name: Pella silt loam, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
Sample point located in an upland meadow. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Acer negundo*	5	Y	FAC
2.			
3.			
4.			
5.			
	5.0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Cirsium arvense*	30	Y	FACU
2. *Lactuca serriola*	30	Y	FACU
3. *Solidago canadensis*	20	Y	FACU
4. *Daucus carota*	15	N	UPL
5. *Ambrosia trifida*	10	N	FAC
6. *Phalaris arundinacea*	10	N	FACW
7. *Urtica dioica*	5	N	FAC
8.			
9.			
10.			
	120.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	10.00	x 2 =	20.00
FAC species	20.00	x 3 =	60.00
FACU species	80.00	x 4 =	320.00
UPL species	15.00	x 5 =	75.00
Column Totals:	125.00 (A)		475.00 (B)

Prevalence Index = B/A = 3.8

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

SOIL

Sampling Point: P7

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-13	10YR 2/1	100					MUCK	
13-24	10YR 5/1	70	10YR 5/8	30	C	M	SIC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:
Drained organic soil

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Remarks:
No hydrology indicators present.
Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P8

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None

Slope (%): 3-7 Lat: 42.953936 Long: -88.174623 Datum: WGS84

Soil Map Unit Name: Pella silt loam, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
Sample point located in an upland forest/old tree farm. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer saccharum*	40	Y	FACU
2. *Gleditsia triacanthos; Caesalpiniodes triacan*	40	Y	FACU
3.			
4.			
5.			
	80.0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *LONICERA MAACKII*	15	Y	UPL
2.			
3.			
4.			
5.			
	15.0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Fragaria virginiana*	50	Y	FACU
2. *Alliaria petiolata*	15	Y	FACU
3. *Acer negundo*	15	Y	FAC
4. *Arctium minus*	10	N	FACU
5. *Ambrosia trifida*	5	N	FAC
6. *Solanum dulcamara*	5	N	FAC
7.			
8.			
9.			
10.			
	100.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 16.67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	25.00	x 3 =	75.00
FACU species	155.00	x 4 =	620.00
UPL species	15.00	x 5 =	75.00
Column Totals:	195.00 (A)		770.00 (B)

Prevalence Index = B/A = 3.95

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

SOIL

Sampling Point: P8

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	10YR 3/1	100					SIL	
15-24	10YR 5/1	80	10YR 5/8	20	C	M	SIC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:

No hydrology indicators present.
Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P9

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex

Slope (%): 3-7 Lat: 42.957289 Long: -88.173172 Datum: WGS84

Soil Map Unit Name: Pella silt loam, 0 to 2 percent slopes NWI classification: T3K

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
Sample point located in an upland meadow. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Dactylis glomerata*	30	Y	FACU
2. *Erigeron annuus*	20	Y	FACU
3. *Plantago major*	15	Y	FACU
4. *Daucus carota*	15	Y	UPL
5. *Asclepias syriaca*	10	N	UPL
6. *Taraxacum officinale*	10	N	FACU
7. *Ambrosia artemisiifolia*	5	N	FACU
8. *Symphyotrichum pilosum*	5	N	FACU
9. *Cirsium arvense*	3	N	FACU
10.			
	113.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

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	88.00	x 4 =	352.00
UPL species	25.00	x 5 =	125.00
Column Totals:	113.00 (A)		477.00 (B)

Prevalence Index = B/A = 4.22

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

SOIL

Sampling Point: P9

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 3/2	100					SIL	
10-24	10YR 3/3	100					SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:
Drained organic soil

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:
No hydrology indicators present.
Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P10

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave

Slope (%): 0-2 Lat: 42.957152 Long: -88.172818 Datum: WGS84

Soil Map Unit Name: Pella silt loam, 0 to 2 percent slopes NWI classification: T3K (WWI)

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
APT analysis indicates climatic conditions are in the wetter than normal range. Sample point located in a wet meadow on stream bank.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. Impatiens capensis	40	Y	FACW
2. Vitis riparia	5	N	FAC
3. Bidens frondosa	5	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	50.0 = Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	45	x 2 =	90
FAC species	5	x 3 =	15
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	50 (A)		105.00 (B)

Prevalence Index = B/A = 2.1

Hydrophytic Vegetation Indicators:

✓ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SOIL

Sampling Point: P10

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-14	10YR 4/1	95	10YR 4/6	5	C	M	SICL	
14-24	10YR 5/1	85	10YR 5/6	15	C	M	SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ✓ No ___ Depth (inches): 8

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 0

Wetland Hydrology Present? Yes ✓ No ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P11

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955493 Long: -88.169195 Datum: WGS84

Soil Map Unit Name: Ogden muck NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Phalaris arundinacea*	60	Y	FACW
2. *Symphyotrichum puniceum*	20	N	OBL
3. *Typha angustifolia*	10	N	OBL
4. *Impatiens capensis*	7	N	FACW
5. *Symphyotrichum lanceolatum*	7	N	FAC
6. *Stachys palustris*	5	N	OBL
7. *Cirsium arvense*	5	N	FACU
8. *Scirpus atrovirens*	3	N	OBL
9. *Epilobium coloratum*	2	N	OBL
10.			
	119.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40.00	x 1 =	40.00
FACW species	67.00	x 2 =	134.00
FAC species	7.00	x 3 =	21.00
FACU species	5.00	x 4 =	20.00
UPL species	0.00	x 5 =	0.00
Column Totals:	119.00 (A)		215.00 (B)

Prevalence Index = B/A = 1.81

Hydrophytic Vegetation Indicators:

✓ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P11

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	2.5Y 2.5/1	100					MUCK	
12-24	10YR 3/2	50					PEAT	
	10YR 3/1	50					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Wetland hydrology verified with monitoring wells in 2024 early growing season.

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: City of New Berlin, Waukesha Co Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: WI Sampling Point: P12

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955493 Long: -88.169440 Datum: WGS84

Soil Map Unit Name: NWI classification:

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	50	Y	FAC
2. *Cirsium arvense*	25	Y	FACU
3. *Sonchus arvensis*	20	Y	FACU
4. *Daucus carota*	5	N	UPL
5.			
6.			
7.			
8.			
9.			
10.			
	100.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	50.00	x 3 =	150.00
FACU species	45.00	x 4 =	180.00
UPL species	5.00	x 5 =	25.00
Column Totals:	100.00 (A)		355.00 (B)

Prevalence Index = B/A = 3.55

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes ____ No ✓

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

Old field

SOIL

Sampling Point: P12

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	2.5Y 2.5/1	100					MUCK	
12-24	10YR 3/1	50					PEAT	
	10YR 3/2	50					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Remarks:

No hydrology indicators present.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P13

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955453 Long: -88.170121 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: PSS1Bg

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	60	Y	FAC
2.			
3.			
4.			
5.			
	60.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Lonicera mackii*	10	Y	UPL
2.			
3.			
4.			
5.			
	10.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	30	Y	FACW
2. *Vitis riparia*	20	Y	FACW
3. *Parthenocissus quinquefolia*	15	Y	FACU
4. *Hesperis matronalis*	3	N	FACU
5. *Circaea canadensis*	3	N	FACU
6.			
7.			
8.			
9.			
10.			
	71.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1. ***Vitis riparia***	15	Y	FACW
2. ***Parthenocissus quinquefolia***	5	Y	FACU
	20.0 = Total Cover		

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 57.14 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	65.00	x 2 =	130.00
FAC species	60.00	x 3 =	180.00
FACU species	26.00	x 4 =	104.00
UPL species	10.00	x 5 =	50.00
Column Totals:	161.00 (A)		464.00 (B)

Prevalence Index = B/A = 2.88

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SOIL

Sampling Point: P13

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	10YR 2/1	75					MUCK	
	10YR 3/2	25					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Remarks:

No hydrology indicators present.
Soil profile dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P14

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave

Slope (%): 3-7 Lat: 42.955524 Long: -88.170301 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: PSS1Bg

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	10	Y	FACW
2. *Angelica atropurpurea*	10	Y	OBL
3. *Phalaris arundinacea*	3	N	FACW
4. *Solanum dulcamara*	2	N	FAC
5. *Symphyotrichum lateriflorum*	2	N	FACW
6. *Epilobium coloratum*	2	N	OBL
7.			
8.			
9.			
10.			
	29.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	12.00	x 1 =	12.00
FACW species	15.00	x 2 =	30.00
FAC species	2.00	x 3 =	6.00
FACU species	0.00	x 4 =	0.00
UPL species	0.00	x 5 =	0.00
Column Totals:	29.00 (A)		48.00 (B)

Prevalence Index = B/A = 1.66

Hydrophytic Vegetation Indicators:

✓ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SOIL

Sampling Point: P14

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					MMI	
6-10	10YR 4/1	100					SL	30% gravel

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: Gravel

Depth (inches): 10

Hydric Soil Present? Yes ✓ No ___

Remarks:

Auger refusal at 10in.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ✓ No ___ Depth (inches): 6

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 0

Wetland Hydrology Present? Yes ✓ No ___

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

Wetland hydrology verified with monitoring wells in 2024 early growing season.

Remarks:

Adjacent to stream depth 4-6in flowing well.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P15

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954397 Long: -88.169693 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Urtica dioica*	30	Y	FACW
2. *Phalaris arundinacea*	15	Y	FACW
3. *Cirsium arvense*	7	N	FACU
4. *Sonchus asper*	5	N	FACU
5. *Fallopia scandens*	5	N	FAC
6.			
7.			
8.			
9.			
10.			
	62.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	45.00	x 2 =	90.00
FAC species	5.00	x 3 =	15.00
FACU species	12.00	x 4 =	48.00
UPL species	0.00	x 5 =	0.00
Column Totals:	62.00 (A)		153.00 (B)

Prevalence Index = B/A = 2.47

Hydrophytic Vegetation Indicators:

✓ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P15

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	2.5Y 2.5/1	100					MUCK	
16-24	10YR 2/1	50					MPT	
	10YR 3/2	50					MPT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:

No hydrology indicators present.
Soil profile dry.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P16

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.953269 Long: -88.169468 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Gleditsia triacanthos*	10	Y	FACU
2.			
3.			
4.			
5.			
	10.0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	20	Y	FACW
2. *Arctium minus*	20	Y	FACU
3. *Solanum dulcamara*	10	N	FAC
4. *Symphyotrichum lateriflorum*	2	N	FACW
5.			
6.			
7.			
8.			
9.			
10.			
	52.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	22.00	x 2 =	44.00
FAC species	10.00	x 3 =	30.00
FACU species	30.00	x 4 =	120.00
UPL species	0.00	x 5 =	0.00
Column Totals:	62.00 (A)		194.00 (B)

Prevalence Index = B/A = 3.13

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

Nursery trees not counted because they are planted.

SOIL

Sampling Point: P16

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	N 2.5/0	100					MUCK	
8-24	10YR 3/2	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Monitoring well 3 dry to bottom (36in below surface)

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: City of New Berlin, Waukesha Co. Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: WI Sampling Point: P17

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): Concave

Slope (%): _____ Lat: 42.953233 Long: -88.169161 Datum: WGS84

Soil Map Unit Name: _____ NWI classification: _____

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	60	Y	FAC
2.			
3.			
4.			
5.			
	60.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	15	Y	FACW
2. *Geum canadense*	5	Y	FAC
3. *Rubus occidentalis*	3	N	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	23.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	15.00	x 2 =	30.00
FAC species	65.00	x 3 =	195.00
FACU species	0.00	x 4 =	0.00
UPL species	3.00	x 5 =	15.00
Column Totals:	83.00 (A)		240.00 (B)

Prevalence Index = B/A = 2.89

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P17

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	2.5Y 2.5/1	100					MMI	
4-24	10YR 3/2	100					MPT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: ___

Depth (inches): ___

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ___ No ✓ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 12

Wetland Hydrology Present? Yes ✓ No ___

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

Wetland hydrology verified with monitoring wells in 2024 early growing season.

Remarks:

Adjacent to WW-7E, about 1in water on surface

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P18

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave

Slope (%): 3-7 Lat: 42.953183 Long: -88.168538 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	30	Y	FAC
2.			
3.			
4.			
5.			
	30.0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	20	Y	FACW
2. *Phalaris arundinacea*	5	N	FACW
3. *Cirsium arvense*	2	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	27.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	25.00	x 2 =	50.00
FAC species	30.00	x 3 =	90.00
FACU species	2.00	x 4 =	8.00
UPL species	0.00	x 5 =	0.00
Column Totals:	57.00 (A)		148.00 (B)

Prevalence Index = B/A = 2.6

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P18

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR 2/1	100					MUCK	
10-24	10YR 3/3	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ✓ No ___ Depth (inches): 1

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 0

Wetland Hydrology Present? Yes ✓ No ___

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

Remarks:

Sample point adjacent to Mill Creek. About 4in standing water, flowing moderately well

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P19

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.953670 Long: -88.168494 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Cirsium arvense*	80	Y	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	80.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

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	80.00	x 4 =	320.00
UPL species	0.00	x 5 =	0.00
Column Totals:	80.00 (A)		320.00 (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 ≤3.0[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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

Old field

SOIL

Sampling Point: P19

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	2.5Y 2.5/1	100					MUCK	
10-24	10YR 2/1	80					MUCK	
	10YR 3/2	20					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Remarks:

No hydrology indicators present. Soil profile dry.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P20

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954127 Long: -88.168532 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Symphyotrichum puniceum*	30	Y	OBL
2. *Symphyotrichum lanceolatum*	20	Y	FAC
3. *Solidago gigantea*	15	N	FACW
4. *Euthamia graminifolia*	10	N	FACW
5. *Cirsium arvense*	3	N	FACU
6. *Salix discolor*	2	N	FACW
7.			
8.			
9.			
10.			
	80.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	30.00	x 1 =	30.00
FACW species	27.00	x 2 =	54.00
FAC species	20.00	x 3 =	60.00
FACU species	3.00	x 4 =	12.00
UPL species	0.00	x 5 =	0.00
Column Totals:	80.00 (A)		156.00 (B)

Prevalence Index = B/A = 1.95

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SOIL

Sampling Point: P20

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	N 2.5/0	100					MUCK	
12-18	10YR 3/1	100					PEAT	
18-24	10YR 3/2	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ___

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

MW4 water table at 17in

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: City of New Berlin, Waukesha Co. Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: _____ Sampling Point: P21

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____

Slope (%): _____ Lat: 42.954150 Long: -88.168959 Datum: WGS84

Soil Map Unit Name: _____ NWI classification: _____

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	70	Y	FAC
2. *Lotus corniculatus*	15	N	FACU
3. *Phalaris arundinacea*	5	N	FACW
4. *Cirsium arvense*	3	N	FACU
5. *Symphyotrichum puniceum*	2	N	OBL
6.			
7.			
8.			
9.			
10.			
	95.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	2.00	x 1 =	2.00
FACW species	5.00	x 2 =	10.00
FAC species	70.00	x 3 =	210.00
FACU species	18.00	x 4 =	72.00
UPL species	0.00	x 5 =	0.00
Column Totals:	95.00 (A)		294.00 (B)

Prevalence Index = B/A = 3.09

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P21

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/2	100					SIL	20-25% gravel, appearance of

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: Gravel

Depth (inches): 8

Hydric Soil Present? Yes _____ No ✓

Remarks:

Auger refusal at 8in.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:

No hydrology indicators present.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P22

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955378 Long: -88.168756 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Lotus corniculatus*	40	Y	FACU
2. *Daucus carota*	15	Y	UPL
3. *Poa pratensis*	10	N	FAC
4. *Elymus repens*	7	N	FACU
5. *Solidago canadensis*	5	N	FACU
6. *Hordeum jubatum*	5	N	FAC
7. *Phalaris arundinacea*	5	N	FACW
8. *Euthamia graminifolia*	5	N	FACW
9. *Erigeron annuus*	3	N	FACU
10.			
	95.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	10.00	x 2 =	20.00
FAC species	15.00	x 3 =	45.00
FACU species	55.00	x 4 =	220.00
UPL species	15.00	x 5 =	75.00
Column Totals:	95.00 (A)		360.00 (B)

Prevalence Index = B/A = 3.79

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

Old field

SOIL

Sampling Point: P22

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 5/3	100					SIL	10% gravel, appearance of fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: gravel

Depth (inches): 9

Hydric Soil Present? Yes ____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ____ No ✓ Depth (inches): ____

Water Table Present? Yes ____ No ✓ Depth (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No ✓ Depth (inches): ____

Wetland Hydrology Present? Yes ____ No ✓

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

Remarks:

No hydrology indicators present.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P23

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955243 Long: -88.168126 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	30	Y	FAC
2. *Phragmites australis*	20	Y	FACW
3. *Lotus corniculatus*	20	Y	FACU
4. *Solidago canadensis*	15	N	FACU
5. *Symphyotrichum lanceolatum*	10	N	FAC
6. *Plantago major*	5	N	FAC
7.			
8.			
9.			
10.			
	100.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	20.00	x 2 =	40.00
FAC species	45.00	x 3 =	135.00
FACU species	35.00	x 4 =	140.00
UPL species	0.00	x 5 =	0.00
Column Totals:	100.00 (A)		315.00 (B)

Prevalence Index = B/A = 3.15

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

Old field

SOIL

Sampling Point: P23

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 4/2	100					SIL	15% gravel
3-24	10YR 5/3	95	10YR 5/4	5	C	M	SICL	10% gravel, appearance of fill.

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:

No hydrology indicators present.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P24

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954692 Long: -88.168229 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Solidago canadensis*	95	Y	FACU
2. *Poa pratensis*	10	N	FAC
3. *Cirsium arvense*	5	N	FACU
4. *Symphyotrichum lanceolatum*	5	N	FAC
5.			
6.			
7.			
8.			
9.			
10.			
	115.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	15.00	x 3 =	45.00
FACU species	100.00	x 4 =	400.00
UPL species	0.00	x 5 =	0.00
Column Totals:	115.00 (A)		445.00 (B)

Prevalence Index = B/A = 3.87

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

SOIL

Sampling Point: P24

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	2.5Y 2.5/1	100					MUCK	
10-16	2.5Y 2.5/1	90					MMI	
	10YR 3/2	10					MMI	
16-24	10YR 3/2	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:

No hydrology indicators present. Soil profile dry.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P25

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave

Slope (%): 3-7 Lat: 42.954758 Long: -88.167931 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: R5UBFx

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Salix bebbiana*	30	Y	FACW
2.			
3.			
4.			
5.			
	30.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Typha angustifolia*	15	Y	OBL
2. *Impatiens capensis*	10	Y	FACW
3. *Phalaris arundinacea*	10	Y	FACW
4. *Solanum dulcamara*	10	Y	FAC
5. *Solidago gigantea*	5	N	FACW
6. *Cirsium arvense*	5	N	FACU
7. *Symphyotrichum puniceum*	5	N	OBL
8.			
9.			
10.			
	60.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	20.00	x 1 =	20.00
FACW species	55.00	x 2 =	110.00
FAC species	10.00	x 3 =	30.00
FACU species	5.00	x 4 =	20.00
UPL species	0.00	x 5 =	0.00
Column Totals:	90.00 (A)		180.00 (B)

Prevalence Index = B/A = 2.0

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SM

SOIL

Sampling Point: P25

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 2/1	100					MPT	
8-14	10YR 2/1	50					PEAT	
	10YR 3/2	50					PEAT	
14-24	10YR 3/3	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ✓ No ___ Depth (inches): .5

Water Table Present? Yes ✓ No ___ Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 0

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

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P26

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 29 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954510 Long: -88.167154 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ✓ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Elymus repens*	85	Y	FACU
2. *Cirsium arvense*	15	N	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

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	100.00	x 4 =	400.00
UPL species	0.00	x 5 =	0.00
Column Totals:	100.00 (A)		400.00 (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 ≤3.0[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.

Hydrophytic Vegetation Present? Yes _____ No ✓

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

SOIL

Sampling Point: P26

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	N 2.5/0	100					MUCK	
12-24	10YR 3/2	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ___ No ✓

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

MW5 water table at 28in

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P27

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 29 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954390 Long: -88.165988 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Phalaris arundinacea*	100	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	100.00	x 2 =	200.00
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:	100.00 (A)		200.00 (B)

Prevalence Index = B/A = 2.0

Hydrophytic Vegetation Indicators:

✓ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P27

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	N 2.5/0	100					MUCK	
16-24	10YR 3/2	100					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ___

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

MW6 water table at 19in

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P28

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 29 T006N R020E

Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955419 Long: -88.166273 Datum: WGS84

Soil Map Unit Name: Ogden muck NWI classification: PFO1/EM1Bg

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	40	Y	FAC
2.			
3.			
4.			
5.			
	40.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	20	Y	FACW
2. *Phalaris arundinacea*	15	Y	FACW
3. *Urtica dioica*	10	N	FACW
4. *Arctium minus*	5	N	FACU
5. *Symphyotrichum lanceolatum*	3	N	FAC
6.			
7.			
8.			
9.			
10.			
	53.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	45.00	x 2 =	90.00
FAC species	43.00	x 3 =	129.00
FACU species	5.00	x 4 =	20.00
UPL species	0.00	x 5 =	0.00
Column Totals:	93.00 (A)		239.00 (B)

Prevalence Index = B/A = 2.57

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P28

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-24	2.5Y 2.5/1	100					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Remarks:

No hydrology indicators present. Soil profile dry.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P29

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 29 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955339 Long: -88.166082 Datum: WGS84

Soil Map Unit Name: Ogden muck NWI classification: PFO1/EM1Bg

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer negundo*	20	Y	FAC
2.			
3.			
4.			
5.			
	20.0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Phalaris arundinacea*	50	Y	FACW
2. *Typha X glauca*	15	Y	OBL
3. *Impatiens capensis*	10	N	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	75.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	15.00	x 1 =	15.00
FACW species	60.00	x 2 =	120.00
FAC species	20.00	x 3 =	60.00
FACU species	0.00	x 4 =	0.00
UPL species	0.00	x 5 =	0.00
Column Totals:	95.00 (A)		195.00 (B)

Prevalence Index = B/A = 2.05

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SM

SOIL

Sampling Point: P29

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-24	2.5Y 2.5/1	100					MUCK	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ✓ No ___ Depth (inches): 12

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 10

Wetland Hydrology Present? Yes ✓ No ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P30

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 29 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): Convex

Slope (%): 3-7 Lat: 42.955974 Long: -88.166009 Datum: WGS84

Soil Map Unit Name: Ogden muck NWI classification: PFO1/EM1Bg

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

Dredge spoils. APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Rhamnus cathartica*	50	Y	FAC
2. *Acer negundo*	20	Y	FAC
3.			
4.			
5.			
	70.0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Rhamnus cathartica*	50	Y	FAC
2.			
3.			
4.			
5.			
	50.0	= Total Cover	
Herb Stratum (Plot size: 5)			
1. *Circaea canadensis*	10	Y	FACU
2. *Rhamnus cathartica*	10	Y	FAC
3. *Lonicera X bella*	10	Y	FACU
4. *Symphyotrichum lateriflorum*	7	Y	FACW
5. *Thalictrum dasycarpum*	5	N	FACW
6. *Parthenocissus quinquefolia*	5	N	FACU
7. *Arctium minus*	5	N	FACU
8. *Oxalis stricta*	5	N	FACU
9. *Maianthemum stellatum*	5	N	FAC
10. *Geum canadense*	3	N	FAC
	65.0	= Total Cover	
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.43 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	12.00	x 2 =	24.00
FAC species	138.00	x 3 =	414.00
FACU species	35.00	x 4 =	140.00
UPL species	0.00	x 5 =	0.00
Column Totals:	185.00 (A)		578.00 (B)

Prevalence Index = B/A = 3.12

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

___ 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.

Hydrophytic Vegetation Present? Yes ✓ No _____

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

SOIL

Sampling Point: P30

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					SIL	
6-14	10YR 3/1	50					SIL	
	10YR 4/2	50					SIL	
14-24	10YR 6/2	80					SIL	
	10YR 4/1	20					SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P31

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 29 T006N R020E

Landform (hillslope, terrace, etc.): Other Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.955984 Long: -88.165994 Datum: WGS84

Soil Map Unit Name: Ogden muck NWI classification:

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:

APT analysis indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Symphyotrichum puniceum*	25	Y	OBL
2. *Solidago canadensis*	20	Y	FACU
3. *Equisetum arvense*	15	N	FAC
4. *Impatiens capensis*	15	N	FACW
5. *Phalaris arundinacea*	7	N	FACW
6. *Cirsium arvense*	5	N	FACU
7.			
8.			
9.			
10.			
	87.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	25.00	x 1 =	25.00
FACW species	22.00	x 2 =	44.00
FAC species	15.00	x 3 =	45.00
FACU species	25.00	x 4 =	100.00
UPL species	0.00	x 5 =	0.00
Column Totals:	87.00 (A)		214.00 (B)

Prevalence Index = B/A = 2.46

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SOIL

Sampling Point: P31

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	2.5Y 2.5/1	100					MMI	
15-24	10YR 5/2	95	10YR 5/4	5	C	M	SIC	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

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

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P32

Investigator(s): Eric C. Parker, SPWS, Matt Stangel, Mikayla Datka Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None

Slope (%): 0-2 Lat: 42.954981 Long: -88.166913 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None Depicted

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 disturbed? Are "Normal Circumstances" present? Yes √ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
APT indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. Poa pratensis	50	Y	FAC
2. Carex cristatella	30	Y	FACW
3. Schedonorus pratensis	15	N	FACU
4. Symphyotrichum puniceum	7	N	OBL
5. Cirsium arvense	7	N	FACU
6. PHALARIS ARUNDINACEA	7	N	FACW
7. Scirpus atrovirens	5	N	OBL
8.			
9.			
10.			
	121.0 = Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	12	x 1 =	12
FACW species	37	x 2 =	74
FAC species	50	x 3 =	150
FACU species	22	x 4 =	88
UPL species	0	x 5 =	0
Column Totals:	121 (A)		324.00 (B)

Prevalence Index = B/A = 2.68

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

√ 2 - Dominance Test is >50%

√ 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.

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

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

SOIL

Sampling Point: P32

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

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-13	2.5Y	2.5/1	100					MUCK	
13-24	10YR	3/2	85					PEAT	Mixed 7/2 shells-marl
	10YR	7/2	15					PEAT	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ✓ No ___ Depth (inches): 1

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 0

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

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

2005-2022 NAIP imagery

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Tree Farm Property City/County: Waukesha County Sampling Date: 2024-07-26

Applicant/Owner: Workman Enterprises State: Wisconsin Sampling Point: P33

Investigator(s): Eric C. Parker, SPWS, Mikayla Datka, Matt Stangel Section, Township, Range: sec 30 T006N R020E

Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex

Slope (%): 0-2 Lat: 42.953849 Long: -88.166335 Datum: WGS84

Soil Map Unit Name: Houghton muck, 0 to 2 percent slopes NWI classification: None Depicted

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 disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling 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:
APT indicates climatic conditions are in the wetter than normal range.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5' radius)			
1. Arctium minus	30	Y	FACU
2. Urtica dioica	25	Y	FACW
3. Solanum dulcamara	25	Y	FAC
4. Impatiens capensis	20	N	FACW
5. PHALARIS ARUNDINACEA	15	N	FACW
6. Hackelia virginiana	10	N	FACU
7. Cirsium arvense	7	N	FACU
8. Lactuca biennis	7	N	FAC
9.			
10.			
	139.0 = Total Cover		
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	32	x 3 =	96
FACU species	47	x 4 =	188
UPL species	0	x 5 =	0
Column Totals:	139 (A)		404.00 (B)

Prevalence Index = B/A = 2.91

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

✓ 2 - Dominance Test is >50%

✓ 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.

Hydrophytic Vegetation Present? Yes ✓ No ____

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

SOIL

Sampling Point: P33

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

Depth (inches)	Matrix Color (moist)		%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-14	2.5Y	2.5/1	100					MUCK	Dry to moist
14-20	10YR	2/1	90					MPT	Moist
	10YR	3/2	10					MPT	
20-24	10YR	3/2	100					PEAT	Moist

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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

Indicators for Problematic Hydric Soils[3]:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ **No** _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ **No** ✓

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

2005-2022 NAIP imagery.

Remarks:

No hydrology indicators observed. Soil profile dry. In zone of influence of nearby ditches with substantial depth. Monitoring wells on site show significant drainage influence in similar soils and landscape position under these wet 2024 conditions.

Workman Enterprises LLC
Tree Farm Property
Project #: 20241185
February 7, 2025

Appendix D | Site Photographs

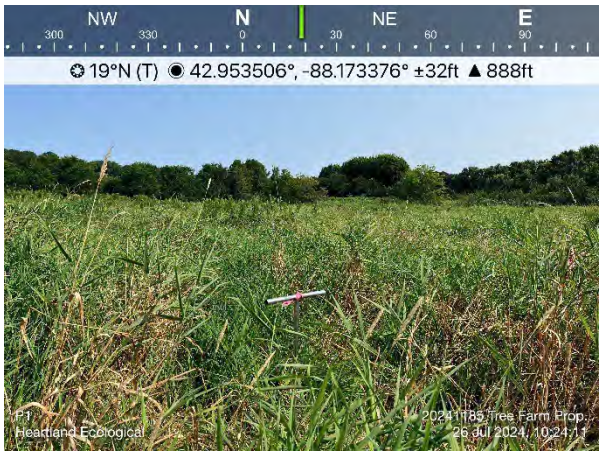


Photo #1 Sample point P1

Photo #2 Sample point P1

Photo #3 Sample point P1

Photo #4 Sample point P1

Photo #5 Sample point P2

Photo #6 Sample point P2

Photo #7 Sample point P2

Photo #8 Sample point P2

Photo #9 Sample point P3

Photo #10 Sample point P3

Photo #11 Sample point P3

Photo #12 Sample point P3

Photo #13 Sample point P4

Photo #14 Sample point P4

Photo #15 Sample point P4

Photo #16 Sample point P4

Photo #17 Sample point P5

Photo #18 Sample point P5

Photo #19 Sample point P5

Photo #20 Sample point P5

Photo #21 Sample point P6

Photo #22 Sample point P6

Photo #23 Sample point P6

Photo #24 Sample point P6

Photo #25 Sample point P7

Photo #26 Sample point P7

Photo #27 Sample point P7

Photo #28 Sample point P7

Photo #29 Sample point P8

Photo #30 Sample point P8

Photo #31 Sample point P8

Photo #32 Sample point P8

Photo #33 Sample point P9

Photo #34 Sample point P9

Photo #35 Sample point P9

Photo #36 Sample point P9

Photo #37 Sample point P10

Photo #38 Sample point P10

Photo #39 Sample point P10

Photo #40 Sample point P10

Photo #41 Sample point P11

Photo #42 Sample point P11

Photo #43 Sample point P11

Photo #44 Sample point P11

Photo #45 Sample point P12

Photo #46 Sample point P12

Photo #47 Sample point P12

Photo #48 Sample point P12

Photo #49 Sample point P13

Photo #50 Sample point P13

Photo #51 Sample point P13

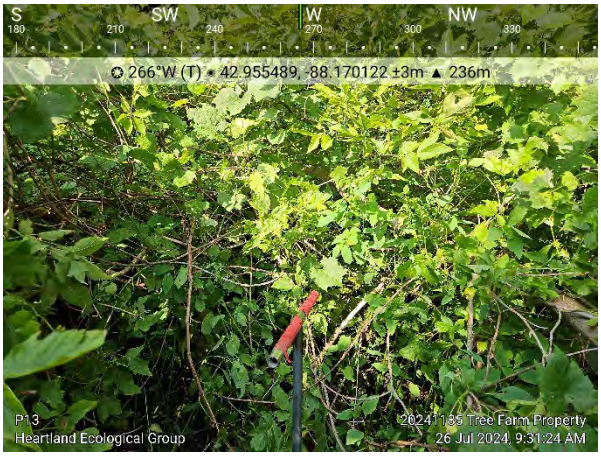


Photo #52 Sample point P13

Photo #53 Sample point P14

Photo #54 Sample point P14

Photo #55 Sample point P14

Photo #56 Sample point P14

Photo #57 Sample point P15

Photo #58 Sample point P15

Photo #59 Sample point P15

Photo #60 Sample point P15

Photo #61 Sample point P16

Photo #62 Sample point P16

Photo #63 Sample point P16

Photo #64 Sample point P16

Photo #65 Sample point P17

Photo #66 Sample point P17

Photo #67 Sample point P17

Photo #68 Sample point P17

Photo #69 Sample point P18

Photo #70 Sample point P18

Photo #71 Sample point P18

Photo #72 Sample point P18

Photo #73 Sample point P19

Photo #74 Sample point P19

Photo #75 Sample point P19

Photo #76 Sample point P19

Photo #77 Sample point P20

Photo #78 Sample point P20

Photo #79 Sample point P20

Photo #80 Sample point P20

Photo #81 Sample point P21

Photo #82 Sample point P21

Photo #83 Sample point P21

Photo #84 Sample point P21

Photo #85 Sample point P22

Photo #86 Sample point P22

Photo #87 Sample point P22

Photo #88 Sample point P22

Photo #89 Sample point P23

Photo #90 Sample point P23

Photo #91 Sample point P23

Photo #92 Sample point P23

Photo #93 Sample point P24

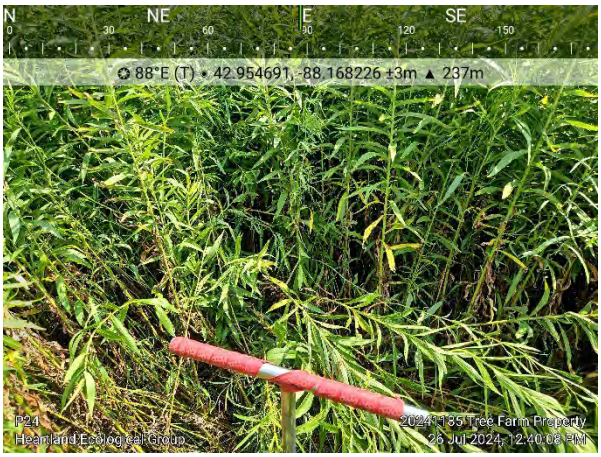


Photo #94 Sample point P24

Photo #95 Sample point P24

Photo #96 Sample point P24

Photo #97 Sample point P25

Photo #98 Sample point P25

Photo #99 Sample point P25

Photo #100 Sample point P25

Photo #101 Sample point P26

Photo #102 Sample point P26

Photo #103 Sample point P26

Photo #104 Sample point P26

Photo #105 Sample point P27

Photo #106 Sample point P27

Photo #107 Sample point P27

Photo #108 Sample point P27

Photo #109 Sample point P28

Photo #110 Sample point P28

Photo #111 Sample point P28

Photo #112 Sample point P28

Photo #113 Sample point P29

Photo #114 Sample point P29

Photo #115 Sample point P29

Photo #116 Sample point P29

Photo #117 Sample point P30

Photo #118 Sample point P30

Photo #119 Sample point P30

Photo #120 Sample point P30

Photo #121 Sample point P31

Photo #122 Sample point P31

Photo #123 Sample point P31

Photo #124 Sample point P31

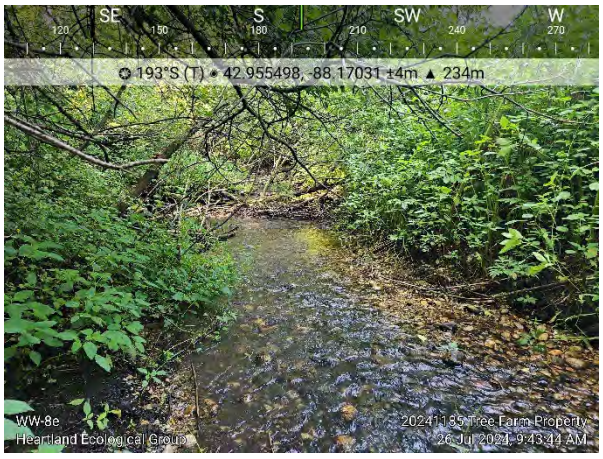


Photo #125 WW-8E

Photo #126 WW-8E

Photo #127 WW-7E

Photo #128 WW-7E

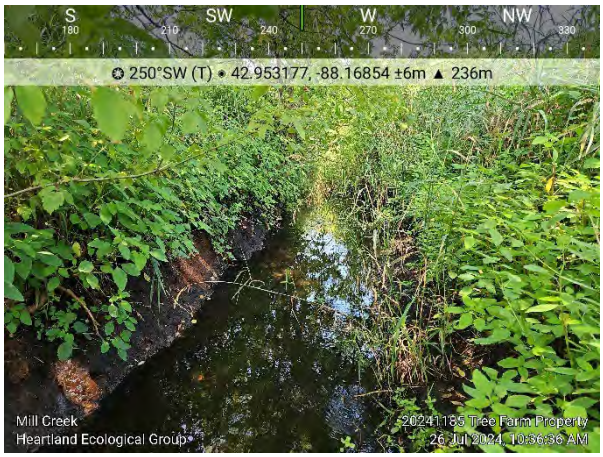


Photo #129 Mill Creek

Photo #130 Mill Creek

Photo #131 WW-1

Photo #132 WW-1

Appendix E | Delineator Qualifications

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

Matt Stangel
Heartland Ecological Group, Inc.
243 E Wilbur Ave.
Milwaukee, WI 53207

Subject: 2024 Assured Wetland Delineator Confirmation

Dear Mr. Stangel:

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 is 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

Kara Brooks
Wetland Identification Coordinator
Bureau of Watershed Management

Matt Stangel

Environmental Scientist

243 East Wilbur Avenue, Milwaukee, WI 53207
matt@heartlandecological.com
(920) 419-5634

Heartland ECOLOGICAL GROUP INC

Matt Stangel holds a B.A. degree in Geography as well as an M.S. in Freshwater Sciences and Technology from the University of Wisconsin – Milwaukee. He has over 12 years of professional experience in environmental science including wetland delineation, ecological restoration, natural area management, and environmental sampling and analysis. Matt is proficient with ESRI ArcGIS software and supports Heartland's projects by processing field data and creating map figures. He has completed basic (2017) and advanced (2018) wetland delineation courses through UW-La Crosse and has assisted on hundreds of wetland delineations for public and private clientele. He is an assured wetland delineator and a Wetland Professional in Training (WPIT) with the Society of Wetland Scientists.

Education

MS, Freshwater Sciences and Technology, University of Wisconsin – Milwaukee, Milwaukee, WI, 2016

BA, Geography (emphasis Environmental Geography), University of Wisconsin – Milwaukee, Milwaukee, WI, 2011

Certifications and Licensing

Assured Wetland Delineator, WDNR, 2022-present

Wetland Professional in Training (WPIT), Society of Wetland Scientists Professional Certification Program, 2020 - present

Professional Development

Critical Methods in Wetland Delineation, University of Wisconsin - La Crosse Continuing Education and Extension, Madison, WI, 2017 - 2024

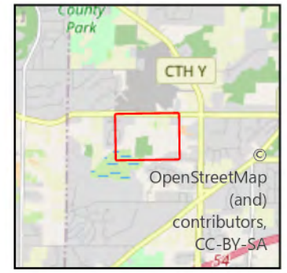
Grasses and Sedges Identification and Sampling, University of Wisconsin – Stevens Point, Schmeeckle Reserve, Stevens Point, WI, 2019

Advanced Wetland Delineation, University of Wisconsin - La Crosse, La Crosse, WI, 2018

Basic Wetland Delineation Training, University of Wisconsin – La Crosse, La Crosse, WI, 2017

Workman Enterprises LLC
Tree Farm Property
Project #: 20241185
February 7, 2025

Appendix F | NAIP Imagery



Study Area (102.64 ac)

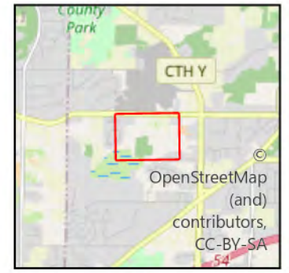
0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

Appendix: 2005-06-16
NAIP Aerial Imagery
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2005 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024



Study Area (102.64 ac)

0 130 260 Ft

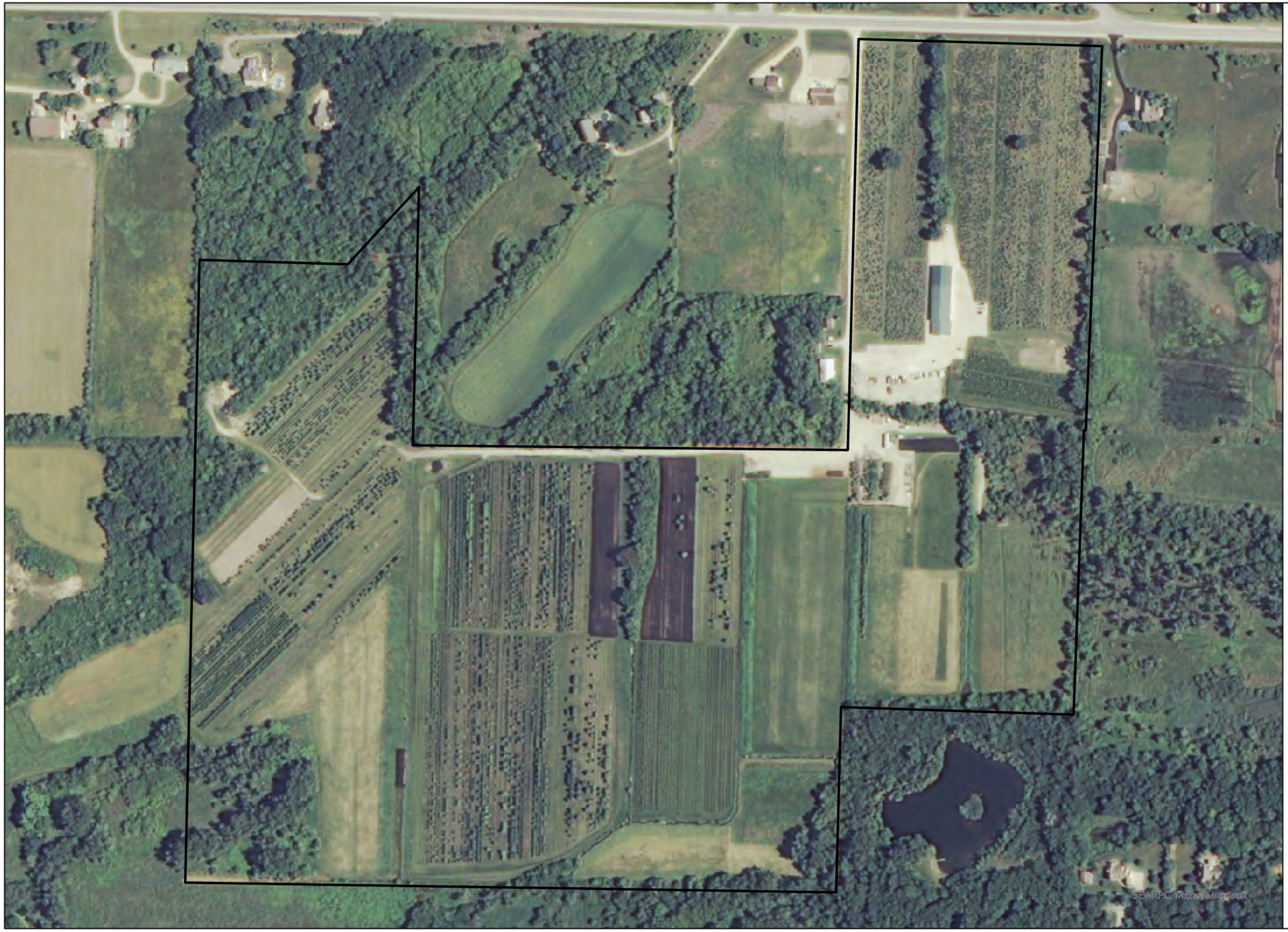
Heartland ECOLOGICAL GROUP INC

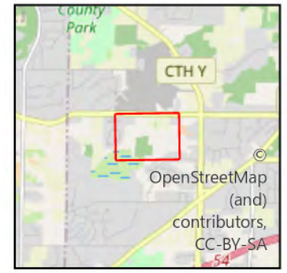
Appendix: 2006-06-29
NAIP Aerial Imagery

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2006 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024





Study Area (102.64 ac)

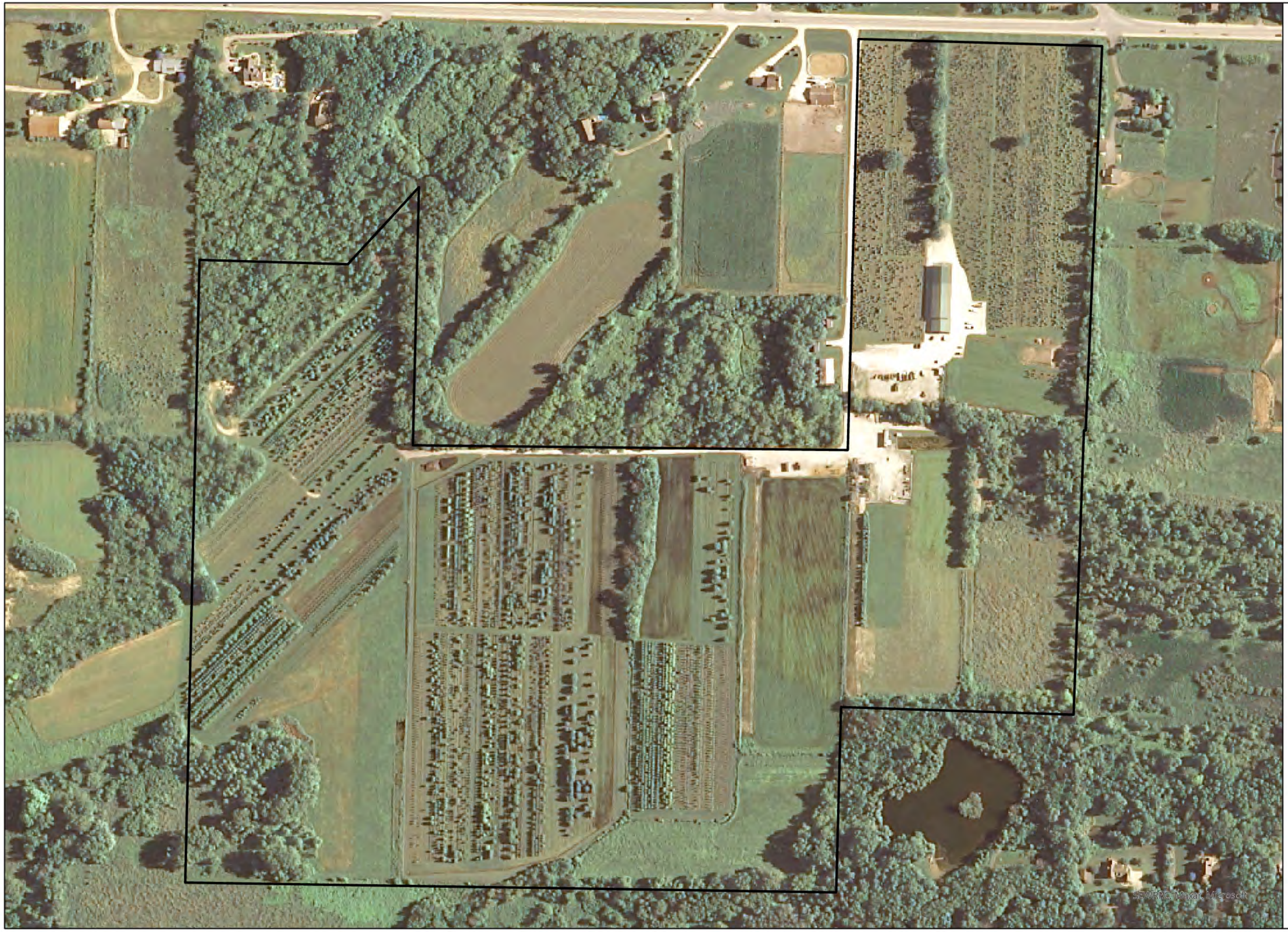
0 130 260 Ft

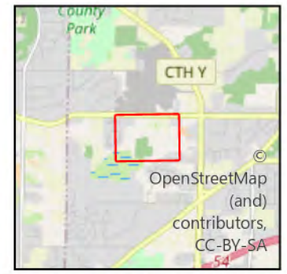
Heartland ECOLOGICAL GROUP INC

Appendix: 2008-07-05
NAIP Aerial Imagery
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2008 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024





Study Area (102.64 ac)

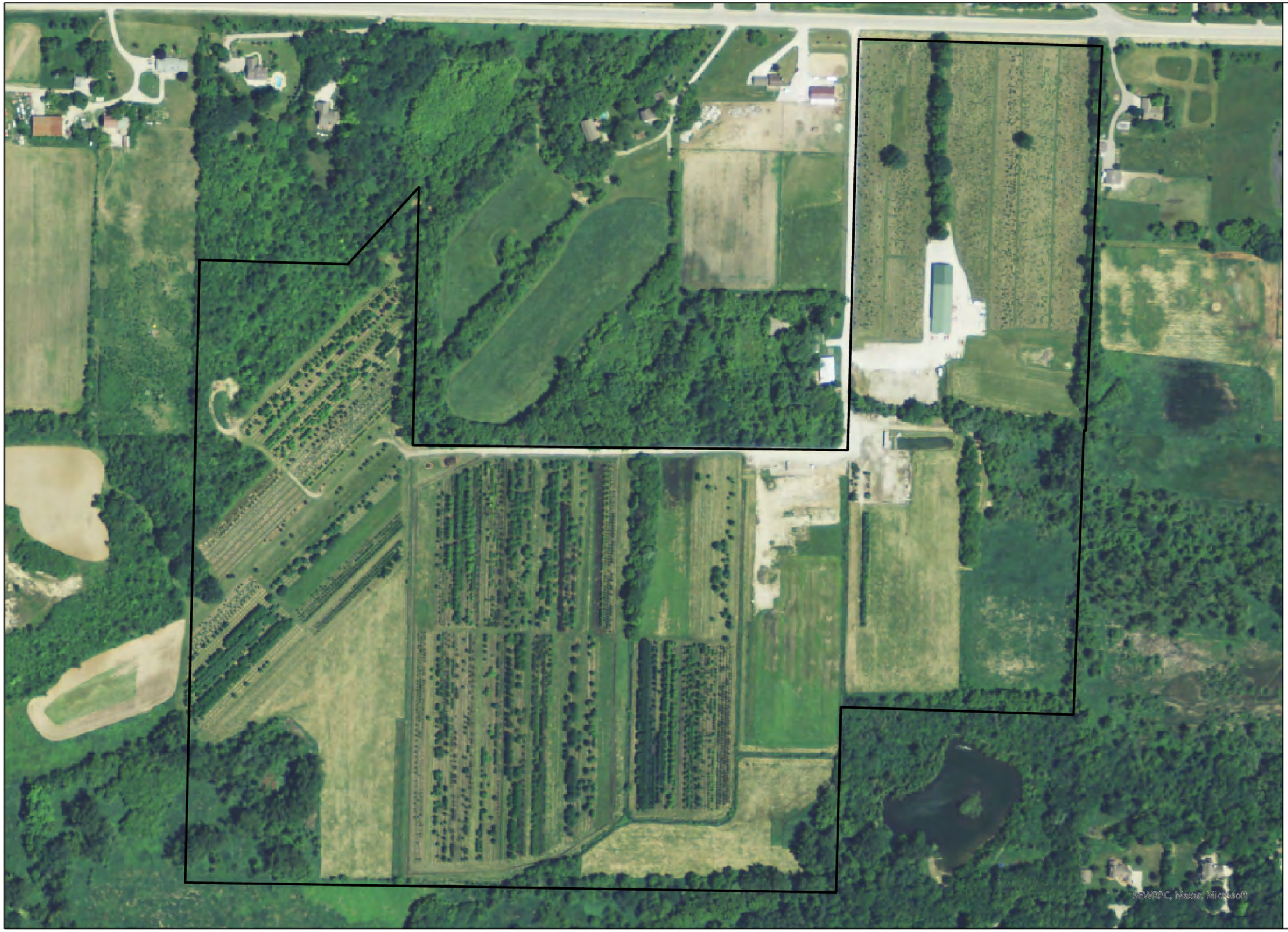
0 130 260
Ft

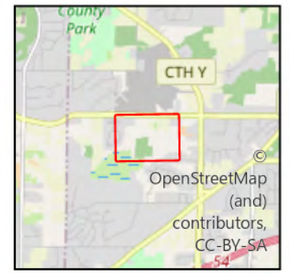
Heartland
ECOLOGICAL GROUP INC

Appendix: 2010-07-01
NAIP Aerial Imagery
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2010 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024





Study Area (102.64 ac)

0 130 260 Ft

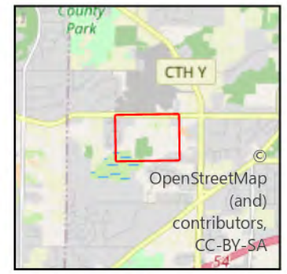
Heartland ECOLOGICAL GROUP INC

Appendix: 2013-06-19
NAIP Aerial Imagery

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2013 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024



Study Area (102.64 ac)

0 130 260 Ft

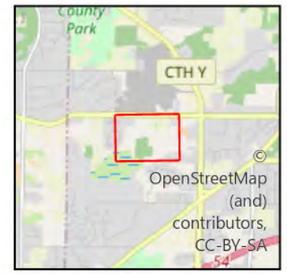
Heartland
ECOLOGICAL GROUP INC

Appendix: 2015-09-22
NAIP Aerial Imagery

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2015 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024



Study Area (102.64 ac)

0 130 260 Ft

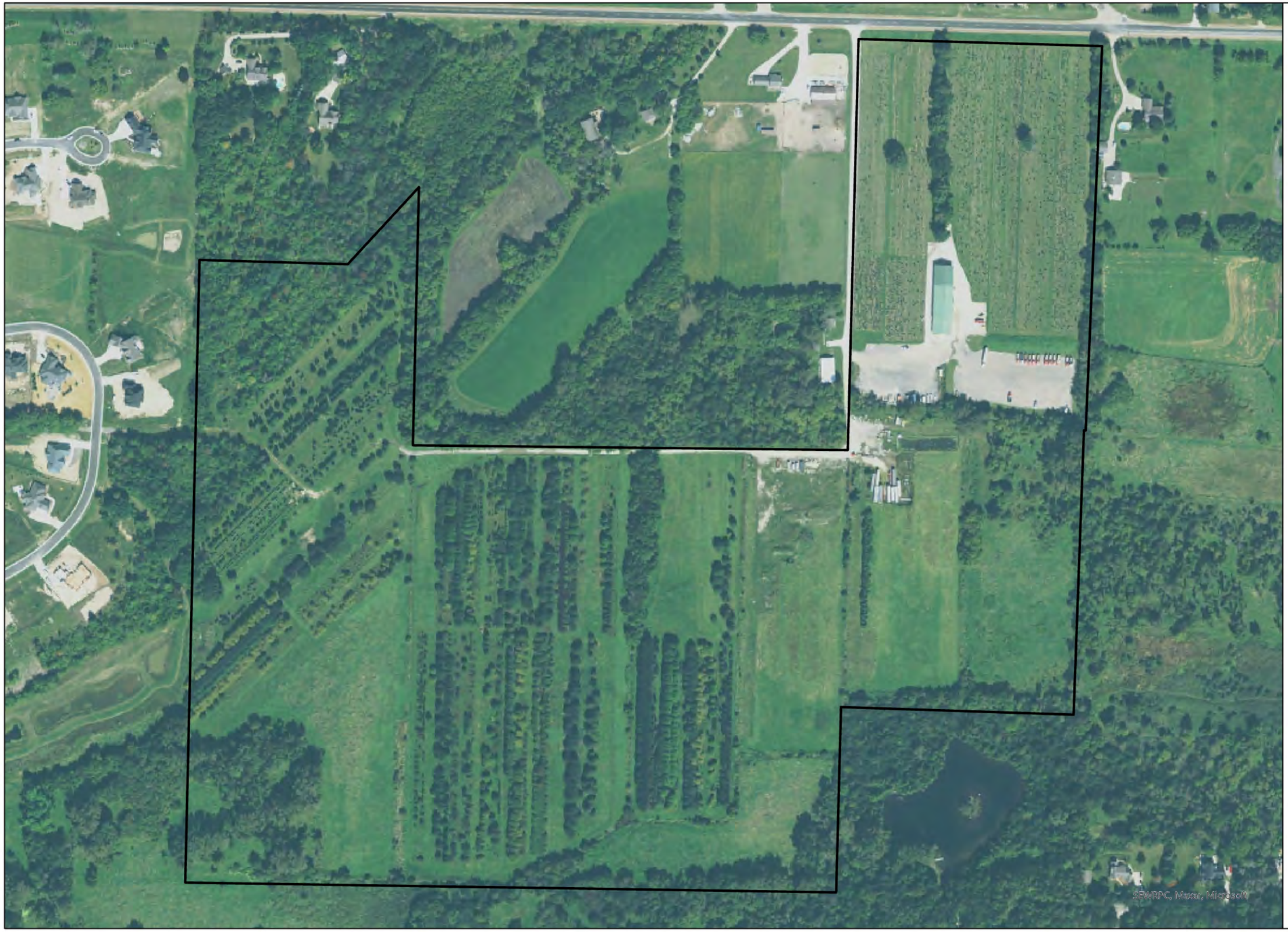
Heartland
ECOLOGICAL GROUP INC

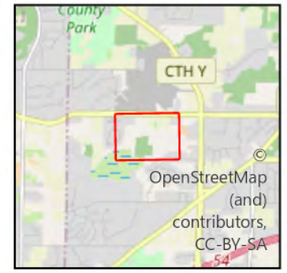
Appendix: 2017-09-23
NAIP Aerial Imagery

Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2017 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024





Study Area (102.64 ac)

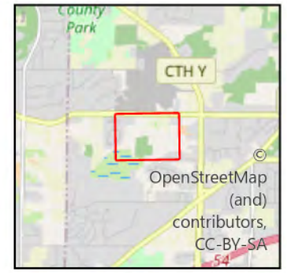
0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

Appendix: 2018-09-15
NAIP Aerial Imagery
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2018 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024



Study Area (102.64 ac)

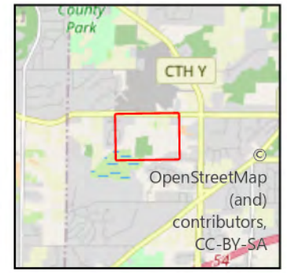
0 130 260 Ft

Heartland ECOLOGICAL GROUP INC

Appendix: 2020-07-24
NAIP Aerial Imagery
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2020 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024



Study Area (102.64 ac)

0 130 260 Ft

Heartland
ECOLOGICAL GROUP INC

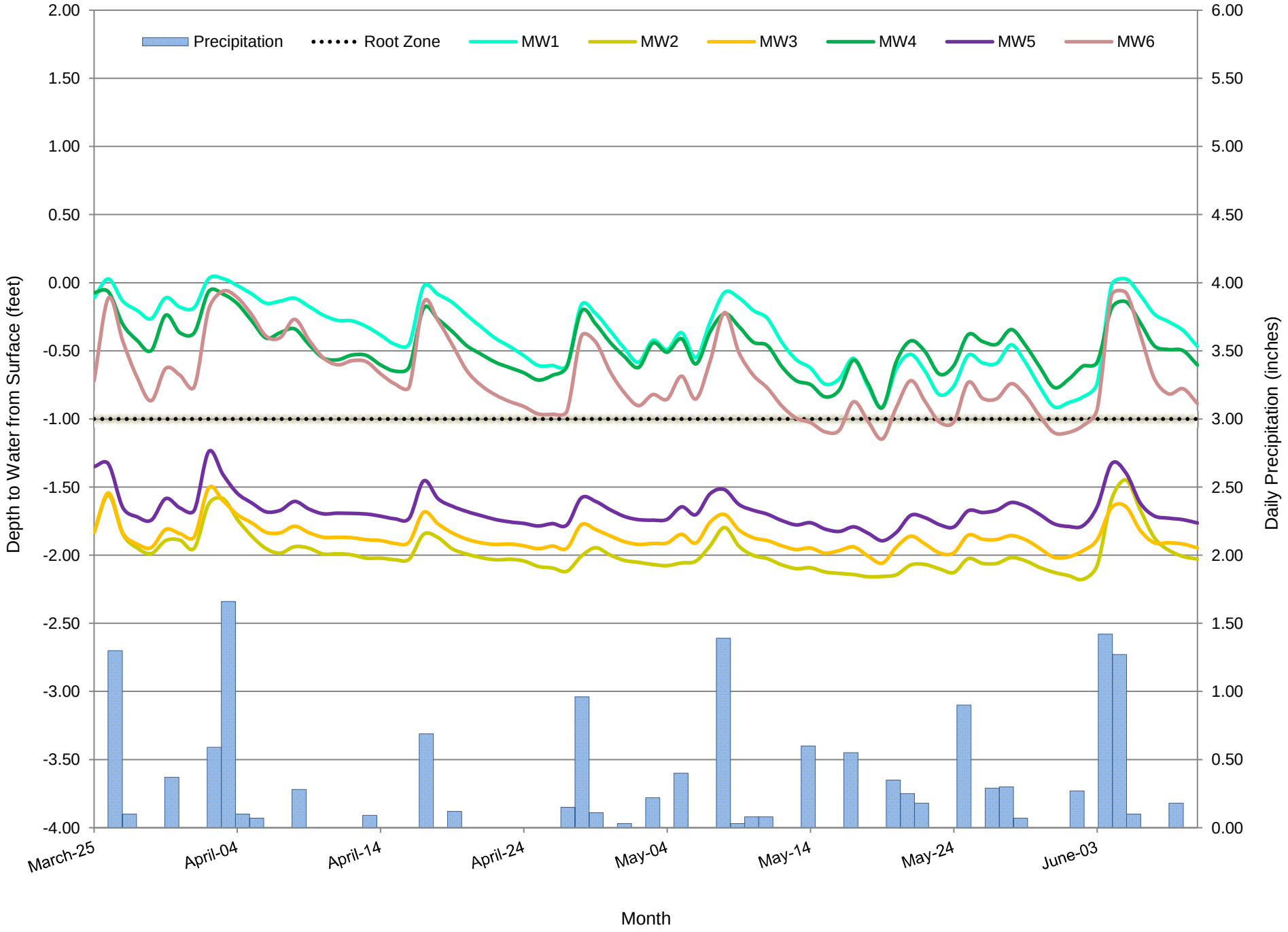
Appendix: 2022-06-23
NAIP Aerial Imagery
Tree Farm Property
Project #20241185
T6N, R20E, S29 & 30
C New Berlin, Waukesha Co

2022 NAIP
USDA
LRR: NCNE

Figure Created: 1/30/2024

Appendix G | Monitoring Well Hydrograph

Chart 1. Water Level Hydrograph - Tree Farm Site
March 25 - June 20, 2024



Appendix G | Adjacent Property Owners Contact Information

Adjacent Property Owners Contact Information

Parcel ID	Primary Owner Name	Full Mailing Address
NBC 1272999	SCHAEFER LARRY A SCHAEFER JOYCE I	20700 W BARTON RD, NEW BERLIN, WI 53146
NBC 1267067	ROGERS GLEN HOMEOWNERS ASSOCIA	3415 N 127TH ST #300, BROOKFIELD, WI 53005
NBC 1267999	HAMILTON ERIC L	20285 W HICKORY TR, NEW BERLIN, WI 53146
NBC 1266993006	FROEMMING STEVEN F	4995 S RACINE AVE, NEW BERLIN, WI 53146
NBC 1269999009	THE SWEENEY FAMILY REVOCLABLE	20211 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1269999004	HAYES SEAN HAYES PAULETTE	20855 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1269999005	HUBERT DOUGLAS J HUBERT JILL A	20835 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1269999008	HIGHT BARRY A HIGHT VALERIE H	20215 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1269999007	SWEENEY FAMILY REVOCABLE TRUST	20211 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1269998	KATZENBERG KEVIN A KATZENBERG SHARON A	20205 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1266999001	BACOVSKY STEVEN J BACOVSKY SHERRI L	20075 W LAWNSDALE RD, NEW BERLIN, WI 53146
NBC 1266999	KGP PROPERTIES LLC	19805 W LAWNSDALE RD, NEW BERLIN, WI 53151
NBC 1269022	KOHLER RIDGE LLC	833 E MICHIGAN ST STE 1000, MILWAUKEE, WI 53202