

Wetland Delineation Report

Big Timber & Reinking Roads Site

Town of Rutland, Kane County, Illinois December 13, 2024

Project Number: 20241389

Big Timber & Reinking Roads Site

Town of Rutland, Kane County, Illinois December 13, 2024

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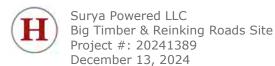
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Table of Contents

1.0	Introduction	4
2.0	Methods	5
2.1	Wetlands	5
3.0	Results and Discussion	7
3.1	Desktop Review	7
Ta	able 1. Summary of NRCS Mapped Soils within the Study Area	8
3.2	Field Review	. 10
Ta	able 2. Summary of Wetlands Identified within the Study Area	. 11
3.3	Other Considerations	. 13
4.0	Conclusion	. 14
5.0	References	. 15

- Appendix A | Figures and Kane County ADID Map
- Appendix B | APT Analysis
- Appendix C | Wetland Determination Data Sheets
- Appendix D | Site Photographs
- Appendix E | Delineator Qualifications
- Appendix F | Off-Site Analysis



1.0 Introduction

Heartland Ecological Group, Inc. ("Heartland") completed a wetland determination and delineation on the Big Timber and Reinking Roads site on November 6, 2024 at the request of Surya Powered LLC. Fieldwork was completed by Eric C. Parker, SPWS (Appendix E, Qualifications). The 108.64-acre site (the "Study Area") is southwest of the intersection of Interstate Highway (IH) 90 and Illinois Route (IR) 47, in Sections 18, 19, and 20, T42N, R7E, Town of Rutland, Kane County, IL (Figure 1, Appendix A). The purpose of the wetland determination and delineation was to determine the location and extent of wetlands and jurisdictional waterways or water bodies within the Study Area.

Five (5) wetland areas totaling approximately 3.78 acres were delineated and mapped within the Study Area (Figure 6, Appendix A). One (1) waterway, the Kishwaukee River, and no (0) waterbodies (e.g., lakes, reservoirs, or ponds) were observed within, or immediately adjacent to, the Study Area. One (1) ADID wetlands are mapped within the Study Area. ADID wetland #440 is mapped just outside the Study Area to the southeast and ADID wetland #434 is just inside the study area to the southwest (ADID exhibit, Appendix A).

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 Illinois Environmental Protection Agency (IEPA), and local or county zoning authorities. Heartland recommends this report be submitted to local authorities, the IEPA, and USACE for final jurisdictional review and concurrence.



Surya Powered LLC Big Timber & Reinking Roads Site

Project #: 20241389 December 13, 2024

2.0 Methods

2.1 Wetlands

Wetlands were determined and delineated using the criteria and methods described in the USACE Wetlands Delineation Manual, T.R. Y-87-1 ("1987 Corps Manual") and the applicable Regional Supplement to the Corps of Engineers Wetland Delineation Manual.

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 Natural Resource Conservation Service's (NRCS) Soil Survey Geographic Database (SSURGO), U.S. Department of Agriculture's (USDA) *Web Soil Survey* (Figure 3, Appendix A), the U.S. Fish and Wildlife Service's (USFWS) *National Wetland Inventory* mapping (Figure 4, Appendix A), and the Illinois Geospatial Data Clearinghouse's *Illinois Height Modernization (ILHMP): LiDAR data* (Figure 5, Appendix A). The USGS *National Hydrography Dataset* is included on Figures 2 and 4, Appendix A. A map showing Kane County ADID (Advanced Identification) wetlands is included in Appendix A.

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 agricultural fields including row-cropping in areas with soils that may be hydric based on the Web Soil Survey. Therefore, procedures for managed plant communities in the Problematic hydrophytic vegetation section described in Chapter 5 of the Regional Supplement were used. Historical aerial imagery was reviewed for evidence of crop stress, saturation, or inundation signatures. Sample point placements for the wetland delineation were partially determined based on such signatures.

In actively farmed areas within the Study Area where hydric soils may be present, methods described in Chapter 5 (Difficult Wetland Situations) of the Regional Supplement were followed. Available aerial imagery was analyzed using procedures described in the *Guidance*



Surya Powered LLC Big Timber & Reinking Roads Site

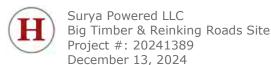
Project #: 20241389 December 13, 2024

for Offsite Hydrology/Wetland Determinations (USACE and Minnesota Board of Water and Soil Resources, July 2016 - "July 2016 Guidance") and the ECS-Wetland Mapping Conventions per Illinois Bulletin No. IL 190-8-4, December 1997 (1997 Illinois Guidance). However, FSA slides were not utilized. An off-site aerial imagery analysis (Off-Site Analysis) was completed to document the presence or absence of wetland signatures and assist in the wetland determination. A wetland signature is evidence, recorded by aerial imagery, of ponding, flooding, or impacts of saturation for sufficient duration to meet wetland hydrology and possibly wetland vegetation criteria. Wetland signatures often vary based on the type and seasonal date of the aerial imagery. For example, there are seven (7) standardized signature types in actively farmed settings described in the July 2016 Guidance and in the Illinois Guidance. To assist in interpretations of wetland signatures, a WETS analysis was used to compare antecedent precipitation in the three (3) months leading up to each aerial image to the long-term (30-year) precipitation averages and standard deviation to determine if antecedent precipitation conditions for each image was normal, wet, or dry. Areas within agricultural fields are typically determined to be wetland if hydric soils and wetland hydrology indicators are present and aerial images taken in the five (5) (or more) most recent normal antecedent precipitation images show at least one (1) of the wetland signatures per the July 2016 Guidance and Illinois Guidance. Although the Off-Site Analysis concentrates on imagery taken under normal antecedent precipitation conditions, the images determined to be taken under wet and dry antecedent precipitation conditions were also analyzed and considered. Determinations and delineation of wetlands in agricultural areas are typically based on an outline of the largest wetland signature on an image taken under "normal" antecedent conditions and based on the consistency of the signatures (1997 Illinois Guidance).

Given the farmed status of the wetlands that were delineated, a Floristic Quality Assessment (FQA) was not completed.

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

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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. Finally, the Palmer Drought Severity Index was checked for long-term drought or moist conditions (NOAA, 2018).

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

Field-observed waterways and waterbodies within the Study Area were identified and mapped in this investigation if they may be under federal, state, or local zoning authority or were previously identified on Figures 2 and 4. Culverts associated with ditches and waterways were also identified and located with GPS if they were adjacent to wetland boundaries.

3.0 Results and Discussion

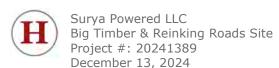
3.1 Desktop Review

Climatic Conditions and Growing Season

According to the APT analysis using the previous 90 days of precipitation data, conditions encountered at the time of the November 6, 2024 fieldwork were expected to be drier 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 mild drought range. Fieldwork was completed outside 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, swales, and slopes. A topographic high of approximately 918 feet above mean sea level (msl) is



found in the northwest portion of the Study Area adjacent to Reinking Road. Topographic lows of approximately 902 feet above msl may be found along the bank of the Kishwaukee River near the southern edge of the Study Area (Figures 2 and 5, Appendix A). Land use within the Study Area consisted primarily of agricultural row cropping. Surrounding areas are composed of mostly of other agricultural properties, with some commercial and residential properties to the southeast. General drainage is to the south following lower elevation topographic breaks to the Kishwaukee River.

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 soils (Figure 3, Appendix A).

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

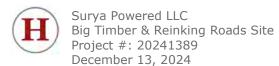
Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
103A: Houghton muck, 0-2% slopes	Houghton- Muck	84-95	Depressions	Yes
	Houghton- Ponded	2-5	Depressions	Yes
		1-3	Lakebeds (relict)	Yes
	Adrian	1-3	Lakebeds (relict)	Yes
	Willette- Muck	0-3	Depressions	Yes
	Edwards	1-2	Depressions	Yes
125A: Selma loam, 0-2% slopes	Selma- Drained	88-100	Lake plains, stream terraces, outwash plains	Yes
	Harpster- Drained	0-3	Depressions on outwash plains and lake plains	Yes
	Orthents, loamy	0-3	Outwash plains, lake plains	No
	Urban land	0-3	Ground moraines	No
	Houghton- Drained	0-3	Depressions on outwash plains and lake plains	Yes
134C2: Camden silt loam, 5-10% slopes, eroded	Camden- Eroded	90-98	Stream terraces	No
	Drummer- Drained	1-4	Stream terraces and swales on outwash plains and till plains	Yes



Surya Powered LLC Big Timber & Reinking Roads Site

Project #: 20241389 December 13, 2024

	Huntsville-	0-2	Flood plains	No
	Occasionally			
	flooded		_	
	Millbrook	0-2	Stream terraces	No
	Senachwine	0-2	End and ground	No
	-Eroded		moraines	
149A: Brenton silt	Brenton	91-100	Outwash plains, stream	No
loam, 0-2% slopes			terraces	
	Drummer-	0-9	Swales on till plains and	Yes
	Drained		outwash plains	
152A: Drummer	Drummer-	90-100	Stream terraces and	Yes
silty clay loam, 0-	Drained		swales on outwash	
2% slopes			plains and till plains	
·	Peotone-	0-9	Depressions on outwash	Yes
	Drained		plains	
	Harpster-	0-9	Depressions on outwash	Yes
	Drained	0 0	plains	. 00
219A: Millbrook silt	Millbrook	90	Outwash plains, stream	No
loam, 0-2% slopes	1 mibrook	30	terraces	110
10d111, 0 2 70 310pc3	Pella	3	Ground moraines,	Yes
	i ella	3	outwash plains, lake	163
			plains	
	Drummer	3	Outwash plains, ground	Yes
	Didililie	3	moraines	165
570B: Martinsville	Martinsville	92	Stream terraces,	No
silt loam, 2-4%	Martinsville	32	outwash plains	NO
I			outwasii piailis	
slopes	Selma	3	Outwork plains strong	Yes
	Seima	3	Outwash plains, stream	res
	D-II-		terraces	
	Pella	3	Ground moraines,	Yes
			outwash plains, lake	
663B B 34			plains	
662B: Barony silt	Barony	92	Stream terraces,	No
loam, 2-5% slopes	_		outwash plains	
	Drummer	3	Outwash plains, ground	Yes
			moraines	
663A: Clare silt	Clare	92-100	Outwash plains, stream	No
loam, 0-2% slopes			terraces	
	Drummer-	0-8	Outwash plains, stream	Yes
	Drained		terraces	
668B: Somonauk	Somonauk	92	Outwash plains, stream	No
silt loam, 2-5%			terraces	
slopes				
	Drummer	3	Outwash plains, ground	Yes
			moraines	
	•			



Wetland and ADID Mapping

The National Wetlands Inventory (NWI) mapping (Figure 4, Appendix A) identifies one (1) wetland area within the Study Area, a riverine wetland (R5UBH) located along the banks of the Kishwaukee River on the south boundary. One (1) "high functional value" ADID wetland (USEPA and USACE, 2004) is mapped within the Study Area, wetland #434, along the southwest boundary. ADID wetland #440 is mapped immediately southeast of the Study Area (Appendix A).

Waterway and Water Body Mapping

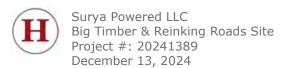
The NHD data included on Figures 2 and 4 (Appendix A) identifies one (1) waterway, the Kishwaukee River, located along the southern boundary of the Study Area. No waterbodies are depicted in the Study Area itself, but waterbodies are mapped offsite to the immediate west and south of the Study Area. One of these waterbodies appear to be artificial pond for agricultural properties to the south, while another appears to be an occasionally flooded depression to the west of the Study Area.

Off-Site Analysis

Agricultural fields within the Study Area have mapped hydric or potentially hydric soils and were the focus of the Off-Site Analysis (Appendix F). From the aerial imagery, in farmed depressional and swale areas, the primary wetland hydrology indicator of Inundation Visible on Aerial Imagery (B7) and the secondary wetland hydrology indicators of "Saturation Visible on Aerial Imagery" (C9) and "Stunted or Stressed Plants" (D1) were noted.

A total of 28 aerial images were selected and reviewed based on availability and quality of the imagery. Of these images, 17 were taken under normal antecedent precipitation conditions. Signatures were noted in six (6) locations within landscape positions described by the NRCS to support hydric soil components and were the focus of the Off-Site Analysis. At least five (5) of the seven (7) described wetland signatures per the July 2016 Guidance were consistently noted in these areas on imagery taken under normal antecedent precipitation. In imagery taken under both wet and dry antecedent precipitation conditions, such wetland signatures were similarly noted in the same six (6) areas.

Based on the Off-Site Analysis, six (6) areas were potentially wetland prior to the fieldwork. Three (3) areas were determined to be wetlands without a field review based on their high percentage of normal years with wet signatures present and hydric soils. Three (3) were



potentially wetland depending on the results of fieldwork. Based on Heartland's fieldwork on November 6, 2024, five (5) of the six (6) areas were determined to be wetland. The final wetland boundary and wetland determinations were completed in the field based on the extent of hydric soils and the presence of field-based wetland hydrology indicators.

3.2 Field Review

Five (5) wetland areas were identified and delineated within the Study Area. Wetland determination data sheets (Appendix C) were completed at 15 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 6 (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

authorities may have additional restrictions. **See Appendix F.

Wetland ID	Wetland Description	*Surface Water Connections	Acreage (on- site)				
W-1	Farmed Wet Meadow	Appearing Isolated in the Landscape	0.39				
W-2	Farmed Wet Meadow	Appearing Isolated in the Landscape	1.74				
W-3	Farmed Wet Meadow	Appearing Isolated in the Landscape	0.48				
W-4	Farmed Wet Meadow	Appearing Isolated in the Landscape	0.36				
W-5	Farmed Wet Meadow	Connected to the Kishwaukee River	0.82				
*Classification based on Heartland's professional opinion. USACE has authority for determining federal jurisdiction of wetlands and waterways. Local zoning							

<u>Wetlands 1 and 5 (W-1 and W-5)</u>

Wetlands 1 and 5 (W-1 and W-5) are farmed wet meadows. W-1 is positioned within the northwest corner of the study area and W-5 is positioned along the southern boundary in the western portion of the Study Area. The boundaries generally coincided with a poorly defined topographic break preliminarily determined in the Off-Site Analysis and revised in the field based on the extent of hydric soils and/or field-based hydrology indicators.

Wetlands W-1 and W-5 both lacked normal circumstances because of soybean cropping during the 2024 growing season. Due to the results from the Off-Site Analysis, landscape position, hydrological and soil wetland indicators, and nearby vegetation, it was assumed



that hydrophytic vegetation would dominate in both wetlands under normal circumstances. Both W-1 and W-5 may be classified as farmed wet meadow communities.

The Depleted Matrix (F3) and Redox Depressions (F8) indicators were present in W-1, while the Redox Dark Surface (F6) indicator was noted in W-5. The presence of these hydric soil indicators satisfied the hydric soil parameter within both W-1 and W-5.

No primary wetland indicators were present within W-1; however, the Saturation Visible on Aerial Imagery (C9) and the Stunted or Stressed Plants (D1) secondary indicators were both noted. The presence of two secondary indicators satisfies the hydrology parameter for wetlands within W-1. Within W-5, the same secondary indicators were observed; and the primary indicators of High Water Table (A2) and Saturation (A3) were also noted. Through the presence of these indicators, the hydrology parameter was met within W-5.

Wetlands 2, 3, and 4 (W-2, W-3, and W-4)

Wetlands 2, 3, and 4 (W-2, W-3, and W-4) are isolated depressions within an agricultural field to the west of Reinking Road. These wetlands all lacked normal circumstances due to vegetation disturbance caused by soybean cropping during the 2024 growing season. The results of the Off-Site Analysis, landscape position, presence of hydrologic and soil indicators, and professional judgement led the delineator to conclude that hydrophytic vegetation would be dominant under normal circumstances. These wetlands may be classified as farmed wet meadow.

The Depleted Matrix (F3) hydric soil indicator was noted within W-2, W-3, and W-4. The presence of this indicator satisfies the hydric soil parameter for wetlands.

The secondary indicators of Saturation Visible on Aerial Imagery (C9), Stunted or Stressed Plants (D1), and Geomorphic Position (D2) were present within all three wetlands. The primary indicator of Inundation Visible on Aerial Imagery (B7) was also identified within W-2 and W-3. The wetland hydrology parameter is met within W-2, W-3, and W-4 through the presence of these indicators.

Waterways and Water Bodies

One (1) waterway, the Kishwaukee River, was identified and mapped along the southern boundary of the study area. The approximate OHWM of the Kishwaukee River is represented in Appendix A, Figure 6.

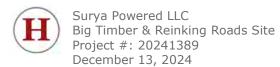


Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

3.3 Other Considerations

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



4.0 Conclusion

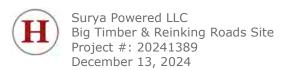
Heartland completed a wetland determination and delineation on the Big Timber and Reinking Roads Site on November 6, 2024, at the request of Surya Powered LLC. Fieldwork was completed by Eric C. Parker, SPWS (Appendix E, Qualifications). The 108.64-acre Study Area is southwest of the intersection of IH 90 and IR 47, in Sections 18, 19, and 20, T42N, R7E, Town of Rutland, Kane County, IL (Figure 1, Appendix A).

Five (5) wetland areas totaling approximately 3.78 acres were delineated and mapped within the Study Area (Figure 6, Appendix A). One (1) waterway, the Kishwaukee River, was observed within the Study Area. One (1) highly functional value ADID wetland (#434), as depicted on Kane County GIS mapping, is partially 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 IEPA, Kane County, and the local zoning authority. Heartland recommends this report be submitted to the USACE and IEPA for final jurisdictional review and concurrence. Review by County and local authorities may be necessary for determination of 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. 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 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

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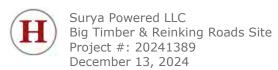
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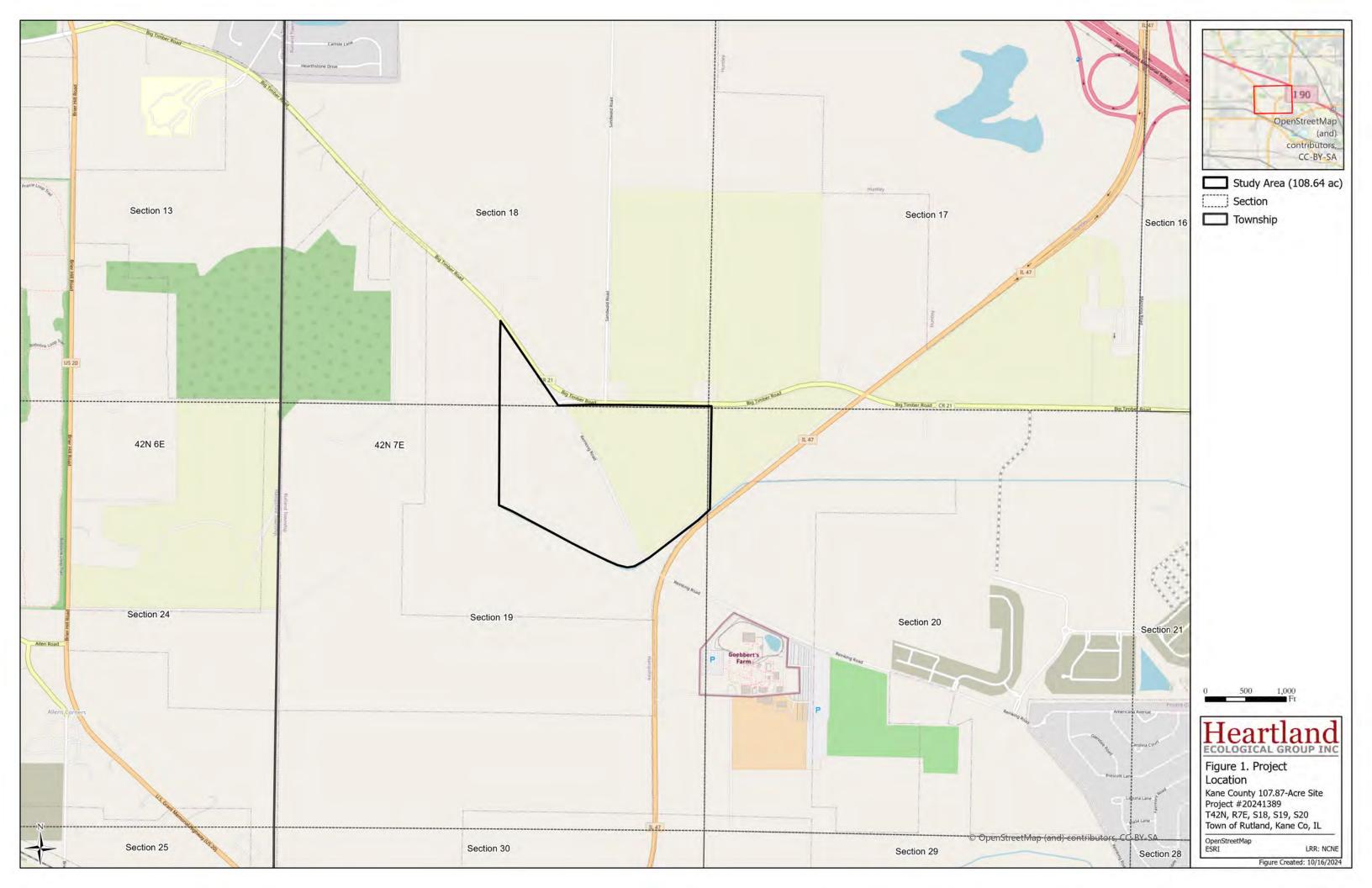


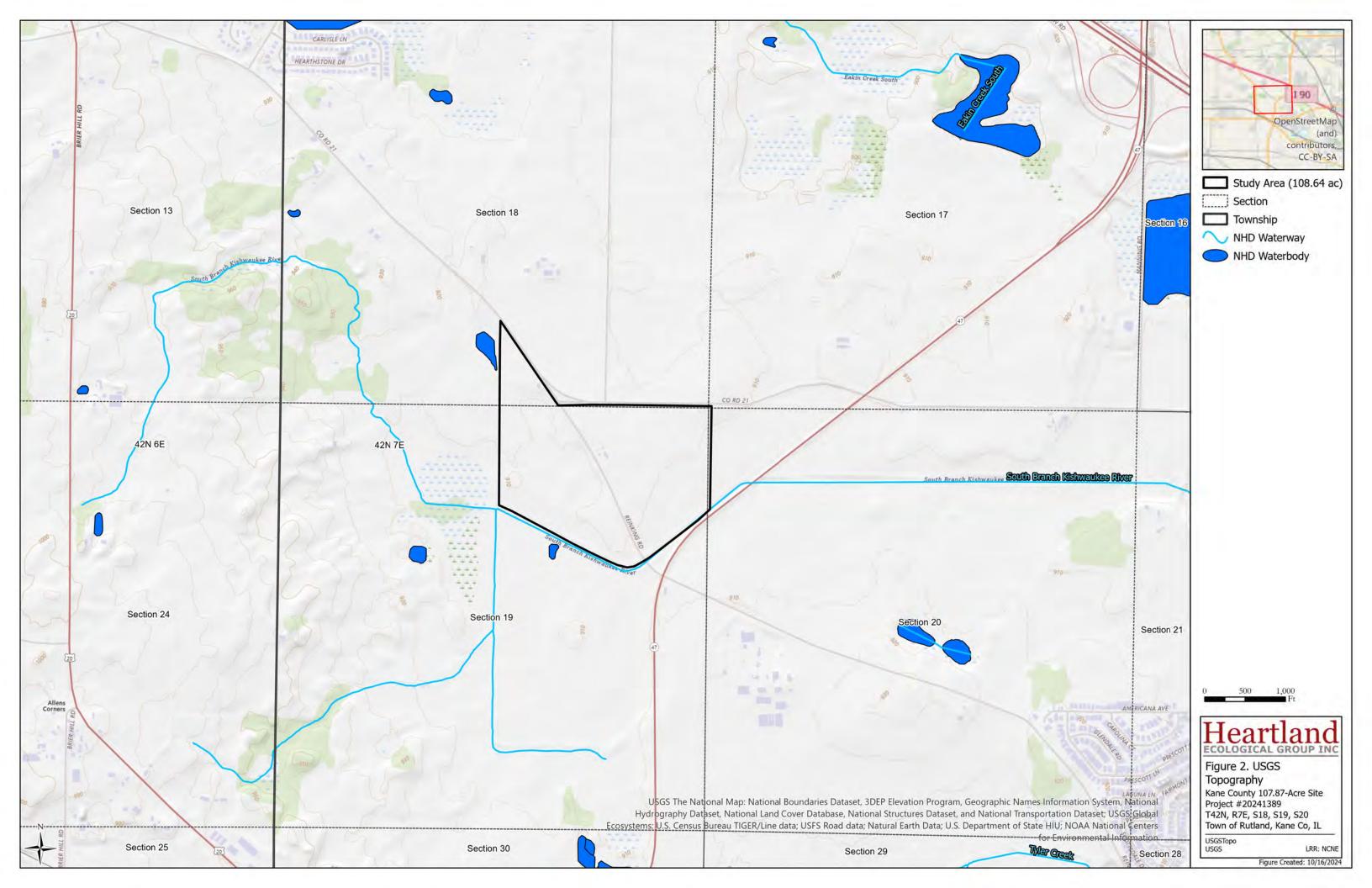
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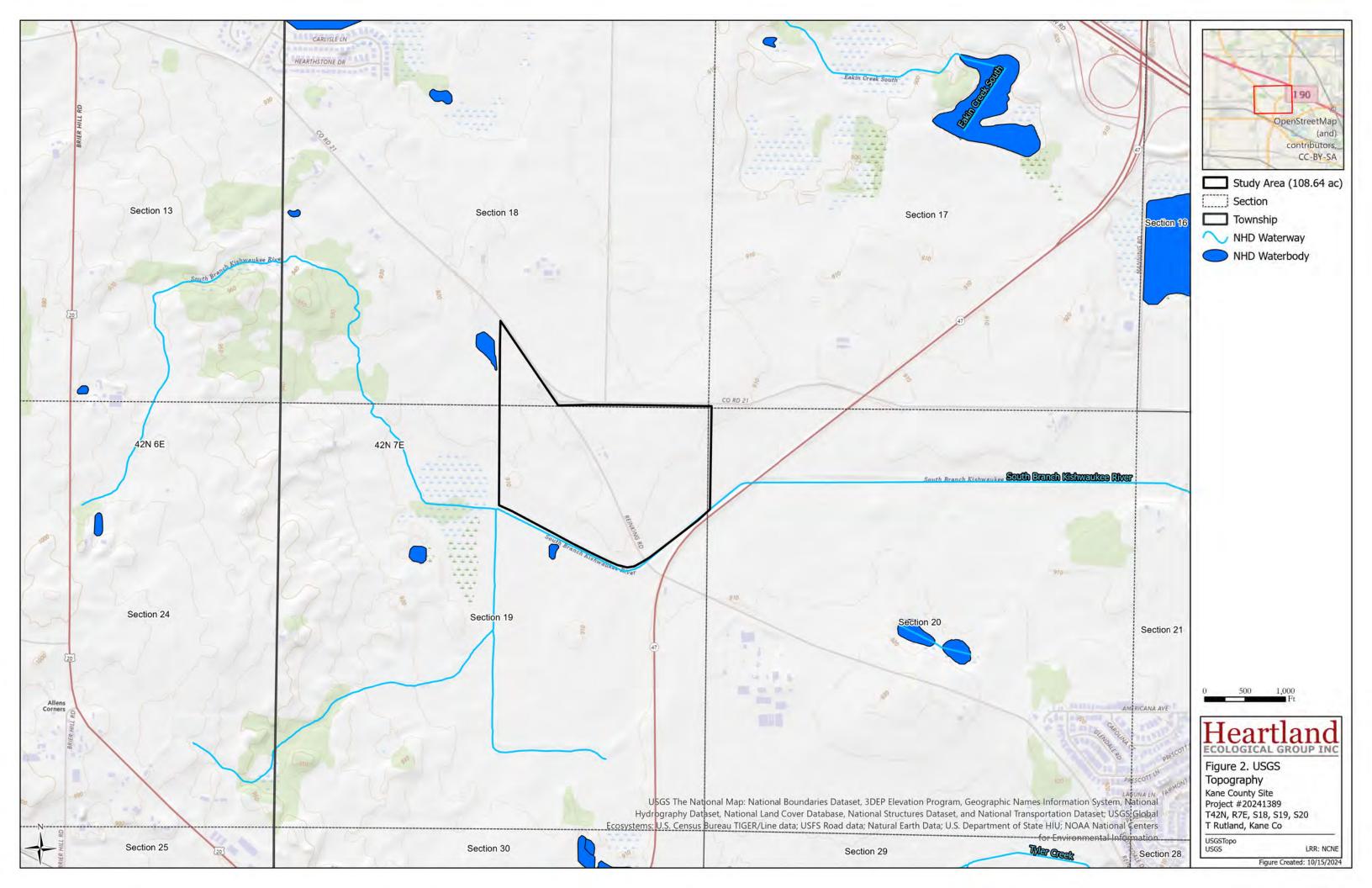
December 13, 2024

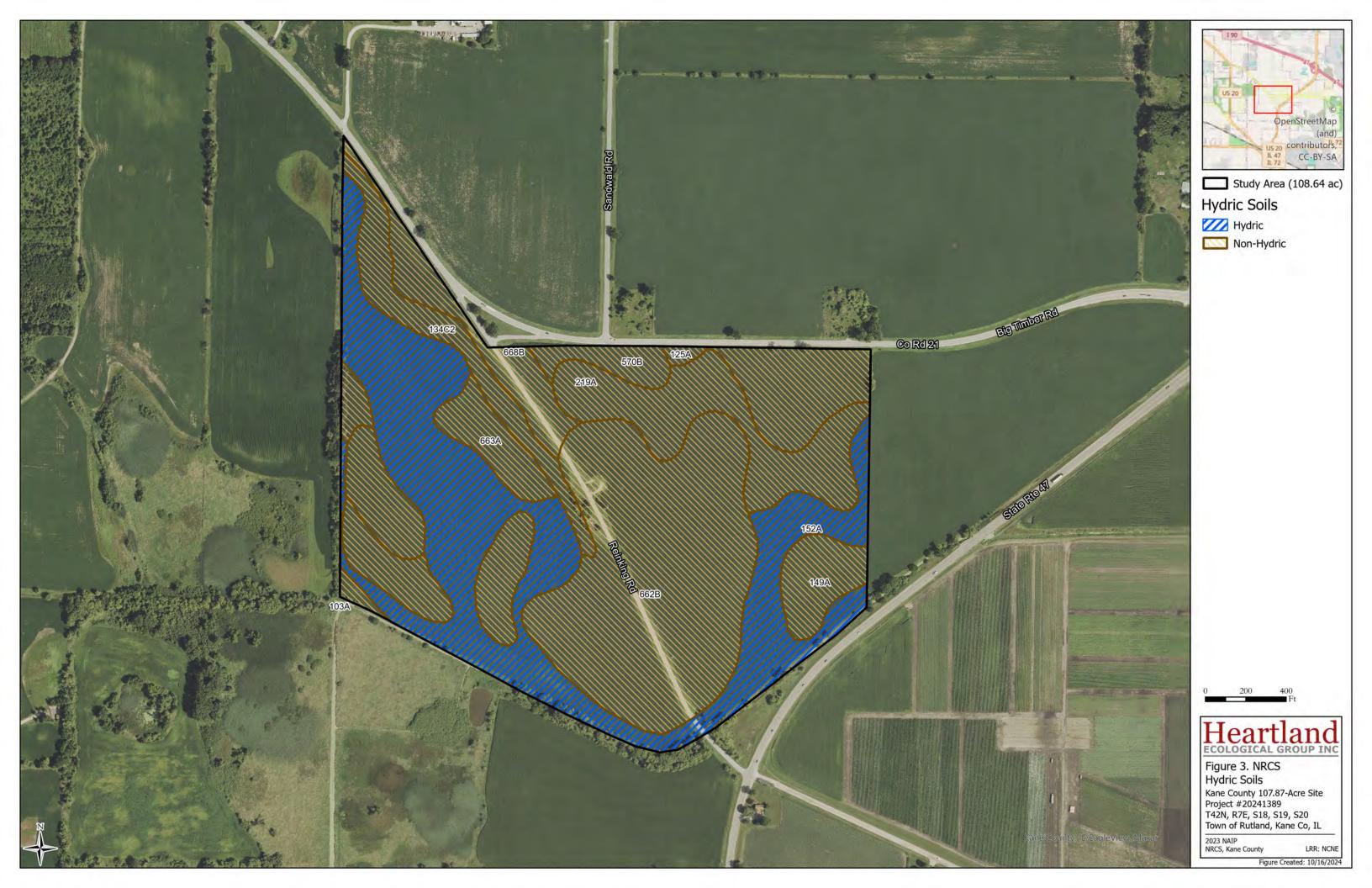
Appendix A | Figures and Kane County ADID Map

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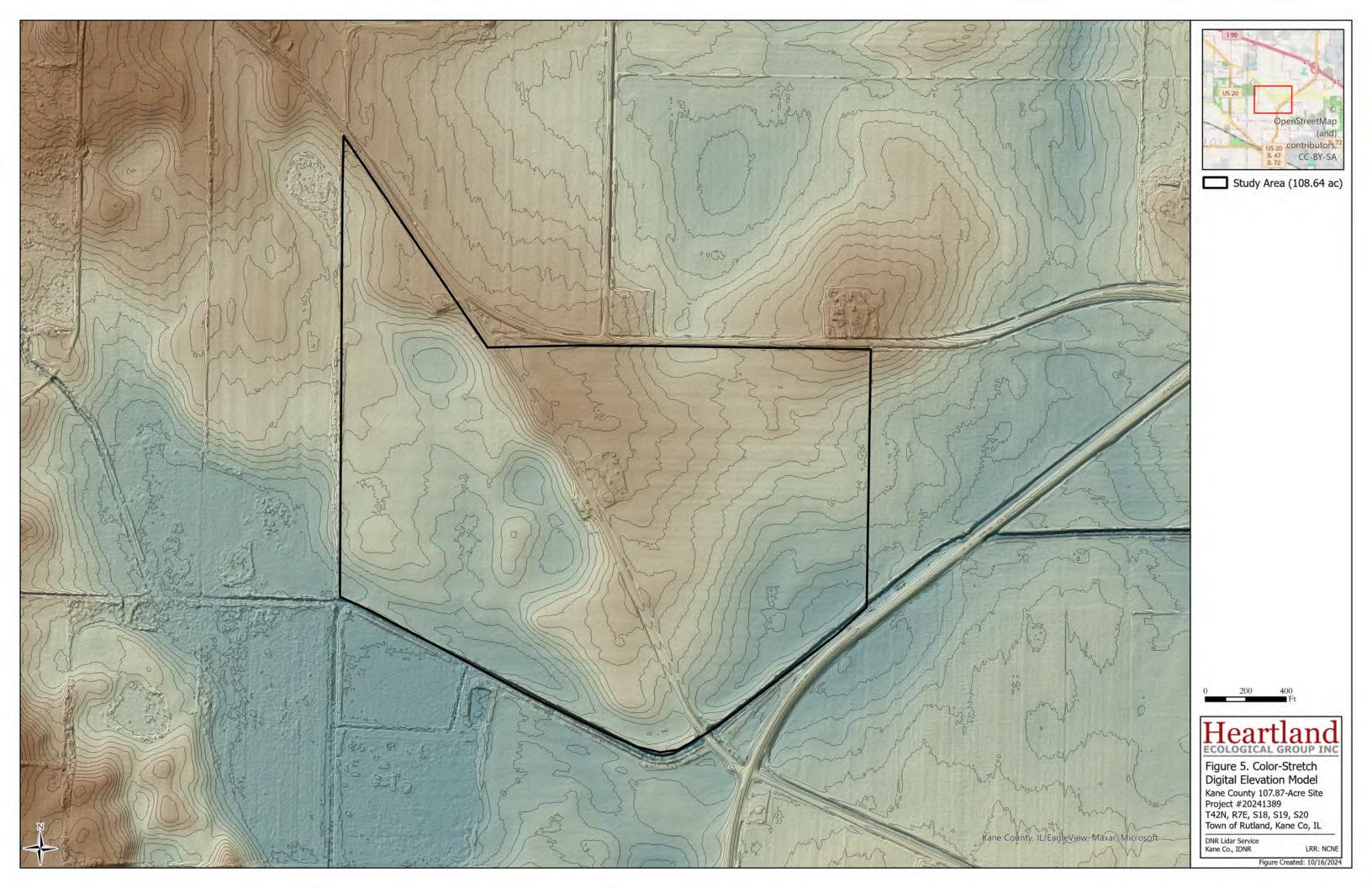






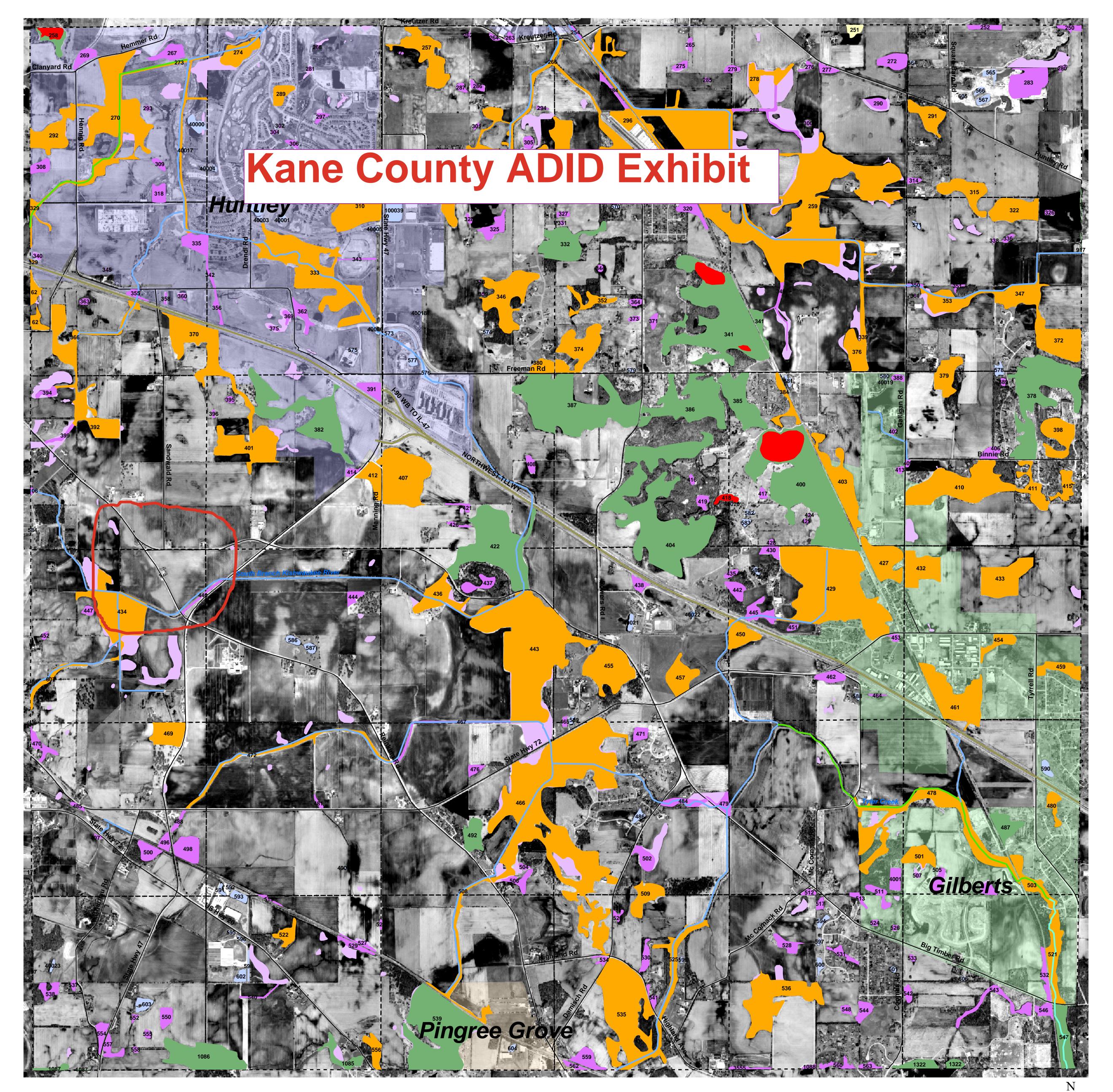


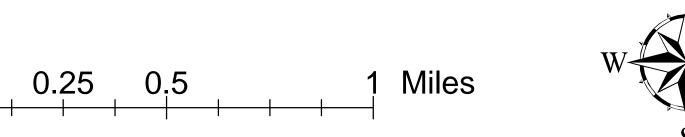


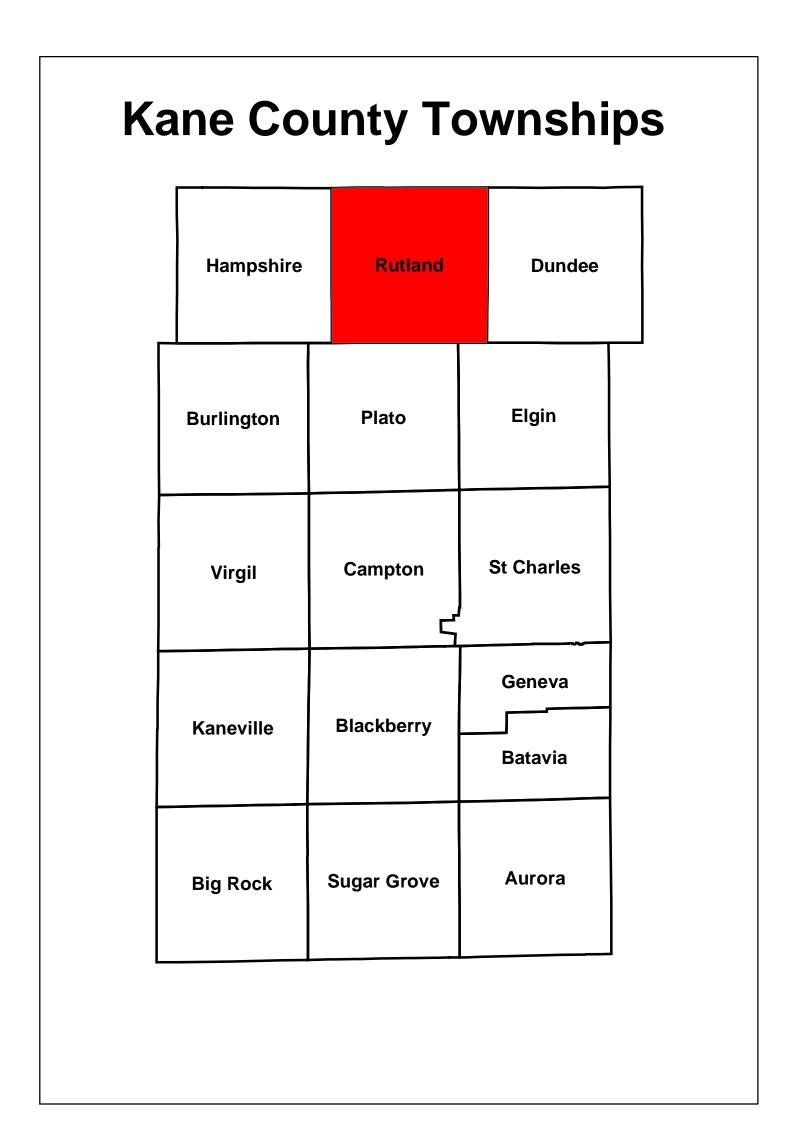




Kane County Advanced Identification of Aquatic Resources (ADID) Rutland Township







Map SectionsExpresswaysMajor Roads

Rivers, Streams, and Ditches Biological Stream Characterization

High Quality

C,D, and E QualityUnrated

Wetland Type

High Habitat Value

High Functional Value

Wetland

Natural Open Water and Fox River

Artificial Ponds

ADID Farmed Wetlands

Islands
Fens

NRCS Farmed Wetlands

This map was produced under the Advanced Identification (ADID) Program of the U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers. Descriptions of the wetland inventory methodology and the wetland and stream designation criteria are available in the Kane County ADID Study Methodology.

The wetland boundaries shown are not jurisdictional delineations.

Note: Although the aerial photography displayed on this mapwas taken in 2001, the ADID data was based on aerial photography taken in 1996-1998 and then updated with photography from 2000. For this reason some features present on the 2001 photography may not be reflected in the ADID data

Of E

Date of Map Creation: August 30, 2004

L. Barghusen, Senior Environmental Analyst

Watersheds and Non-point Source Programs Branch Region 5 U.S. Environmental Protection Agency

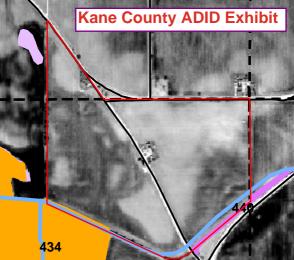
Regulatory Branch U.S. Army Corps of Engineers



US Army Corps

of Engineers.







Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix B | APT Analysis

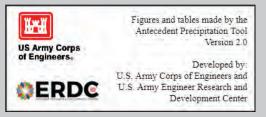
Solutions for people, projects, and ecological resources.

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



Coordinates	42.1081410, -88.4572961
Observation Date	2024-11-06
Elevation (ft)	914.337
Drought Index (PDSI)	Mild drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-11-06	2.41063	3.908268	2,46063	Normal	2	3	6
2024-10-07	2.449606	4.259055	1.913386	Dry	1	2	2
2024-09-07	2.409055	3.819291	2.149606	Dry	1	1	1
Result							Drier than Normal - 9



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted A	Days Normal	Days Antecedent
CRYSTAL LAKE 4NW	42.2611, -88.3953	931,102	11.035	16,765	5,151	10478	85
CRYSTAL LAKE 3.9 WNW	42.2613, -88.3954	930.118	0.015	0.984	0.007	3	3
CRYSTAL LAKE 1.0 WSW	42.2288, -88.3496	894.029	3.232	37.073	1.574	362	2
WOODSTOCK 0.8 SSW	42.3003, -88.4433	948.163	3.655	17.061	1.707	88	0
CRYSTAL LAKE 1.9 SW	42.2147, -88.3588	903.871	3.71	27.231	1.771	20	0
WOODSTOCK 0.7 SW	42.3053, -88.4473	967.848	4.049	36.746	1.971	44	0
BULL VALLEY 2.5 WNW	42.3245, -88.3946	958.005	4.381	26.903	2.089	188	0
WOODSTOCK 3.8 SW	42.2755, -88.495	866,142	5,194	64.96	2.675	18	0
ALGONQUIN 0.7 N	42.1739, -88.2993	832.021	7.774	99.081	4.269	1	0
WOODSTOCK 5NW	42.3628, -88.5314	946,85	9,886	15,748	4.604	54	0
MCHENRY STRATTON LOCK/DAM	42.3097, -88.2533	735.892	7.998	195.21	5.16	95	0
MARENGO	42.263688.6078	814.961	10.867	116.141	6,152	2	0



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix C | Wetland Determination Data Sheets

Solutions for people, projects, and ecological resources.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property	City/County: Kane County Sampling Date: 2024-11-						
Applicant/Owner: Surya Powered	State: Illinois Sampling Point: P1						
Investigator(s): Eric C Parker, SPWS	Section, Township, Range: sec 18 T042N R007E						
Landform (hillslope, terrace, etc.): Toeslope	Local relief (concave, convex, none): Concave						
Slope (%): <u>0-2</u> Lat: 42.111989	Long: -88.461894 Datum: WGS84						
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes		NWI classification: None Depicted					
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No	√ (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly							
Are Vegetation, Soil, or Hydrology naturally pr		eded, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing		ocations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No							
Hydric Soil Present? Yes No	is the campied	1					
Wetland Hydrology Present? Yes ✓ No	within a Wetlan	d? Yes No					
Remarks:	1						
APT analysis indicates climatic conditions are in the drier than normal	al range. Ag field planted	in soybeans, now harvested; not NC.					
VEGETATION – Use scientific names of plants.							
Absolute		Dominance Test worksheet:					
Tree Stratum (Plot size: 30' radius) % Cover	r Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)					
2		Total Number of Dominant					
3		Species Across All Strata: 0 (B)					
5		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)					
Sapling/Shrub Stratum (Plot size: 15' radius)	_ = Total Cover	Prevalence Index worksheet:					
1		Total % Cover of: Multiply by:					
2		OBL species 0 x 1 = 0					
3		FACW species 0 x 2 = 0					
4		FAC species0 x 3 =0					
5		FACU species 0 x 4 = 0					
Herb Stratum (Plot size: 5' radius)	_ = Total Cover	UPL species 0 x 5 = 0					
1		Column Totals: (A) (B)					
2.		Prevalence Index = B/A =					
3.		Hydrophytic Vegetation Indicators:					
4.		1 - Rapid Test for Hydrophytic Vegetation					
5		2 - Dominance Test is >50%					
6		3 - Prevalence Index is ≤3.0 ¹					
7		 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 					
8		✓ Problematic Hydrophytic Vegetation¹ (Explain)					
9		Troblematic Hydrophytic Vegetation (Explain)					
10	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must					
Woody Vine Stratum (Plot size: 30' radius)	_ = 10tal 00vel	be present, unless disturbed or problematic.					
1		Hydrophytic					
2		Vegetation					
_ 0	= Total Cover	Present? Yes/_ No					
Remarks: (Include photo numbers here or on a separate sheet.)							
Ag field planted in soybeans in 2024 now harvested and chisel plowe							
Adjacent field edge 25 feet to west dominated by Salix interior, Phala under NC given the OSA, landscape position, the other parameters,	iris, and Rubus occidenta and professional judgmei	alls. Assumed hydrophytic vegetation would dominate nt.					

US Army Corps of Engineers Midwest Region – Version 2.0

SOIL Sampling Point: P1

Profile Des	cription: (D	escribe 1	to the dep	oth needed	to docun	nent the i	ndicator (or confirn	n the absence of	indicators.)
Depth		Matrix				k Features				
(inches)	Color (ı		<u></u> %	Color (r		%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-13	<u>10YR</u>	4/1	80	_10YR	4/3	20	C	M	SICL	
13-18	<u>10YR</u>	4/2	80	_10YR	4/4	20	C	M	SICL	
18-24	10YR	5/2	80	10YR	5/4	20	С	M	SIC	
	-			-						
	Concentration	n, D=Depl	etion, RM	=Reduced N	Matrix, MS	S=Masked	Sand Gra	ins.		on: PL=Pore Lining, M=Matrix.
-	Indicators:									Problematic Hydric Soils ³ :
Histoso		`				Sleyed Ma			Coast Pra	iirie Redox (A16)
	Epipedon (A2 listic (A3))			Sandy R	ledox (S5 I Matrix (S			— Dark Surfa	ace (S7)
	en Sulfide (A	4)				лианх (S Лиску Mir	,		Iron-Mang	ganese Masses (F12)
	ed Layers (À					Sleyed Ma			Very Shal	low Dark Surface (TF12)
2 cm M				\checkmark	Deplete				Other (Ex	plain in Remarks)
-	ed Below Dai		e (A11)		=:	ark Surfa			3	
	ark Surface Mucky Miner	. ,			Depleted Redox D		rface (F7)			hydrophytic vegetation and drology must be present,
	ucky Peat or		3)		Redux L	epression	15 (F0)		-	turbed or problematic.
	Layer (if ob								1	and the proposition of the propo
Type:										
Depth (ir	nches):								Hydric Soil Pre	esent? Yes √ No
Remarks:	, <u> </u>								1 -	
HYDROLO	OGY									
Wetland Hy	/drology Inc	licators:								
_	icators (mini		ne is requi	red; check	all that ap	ply)			Secondary	Indicators (minimum of two required)
	Water (A1)		•		Vater-Stai		es (B9)			e Soil Cracks (B6)
	ater Table (A	N2)			quatic Fa		` ,			ge Patterns (B10)
Saturati		,			rue Aqua					ason Water Table (C2)
Water N	Marks (B1)			F	lydrogen :	Sulfide O	dor (C1)		Crayfis	h Burrows (C8)
Sedime	ent Deposits	(B2)		0	Oxidized R	hizosphe	res on Livi	ng Roots	(C3) √ Saturat	ion Visible on Aerial Imagery (C9)
Drift De	eposits (B3)			F	resence o	of Reduce	d Iron (C4	.)	✓ Stunted	d or Stressed Plants (D1)
	at or Crust (B4)		· <u></u>			on in Tilled	d Soils (Ce	· —	orphic Position (D2)
	posits (B5)				hin Muck	,			FAC-Ne	eutral Test (D5)
	tion Visible o				Sauge or \					
Sparsel	ly Vegetated	Concave	Surface (В8) С	Other (Exp	lain in Re	marks)			
F: 1101					5					
Field Obser					I IANTH /IN/	nes).				
Surface Wa	ter Present?			No		•				
Surface Wa	ter Present? e Present?	Ye	es	No <u>/</u>	Depth (inc	hes):		_		
Surface Wa Water Table Saturation F	ter Present? Present?	Ye Ye	es		Depth (inc	hes):		_	and Hydrology P	resent? Yes <u>√</u> No
Surface War Water Table Saturation F (includes ca	ter Present? e Present?	Υ є Υ є	es es	No <u>√</u> No <u>√</u>	Depth (ind	ches):		Wetl		resent? Yes No
Surface War Water Table Saturation F (includes ca	ter Present? Present? Present? pillary fringe	Ye Ye (stream	es es gauge, mo	No✓_ No✓_ onitoring we	Depth (ind Depth (ind	ches): ches): chotos, pro		Wetl		resent? Yes <u>√</u> No
Surface War Water Table Saturation F (includes ca Describe Re	ter Present? Present? Present? pillary fringe	Ye Ye (stream	es es gauge, mo	No✓_ No✓_ onitoring we	Depth (ind Depth (ind	ches): ches): chotos, pro		Wetl		resent? Yes No
Surface War Water Table Saturation F (includes ca Describe Re GE and NAIF	ter Present? Present? Present? pillary fringe	Ye Ye (stream	es es gauge, mo	No✓_ No✓_ onitoring we	Depth (ind Depth (ind	ches): ches): chotos, pro		Wetl		resent? Yes <u>/</u> No
Surface War Water Table Saturation F (includes ca Describe Re GE and NAIF	ter Present? Present? Present? pillary fringe	Ye Ye (stream	es es gauge, mo	No✓_ No✓_ onitoring we	Depth (ind Depth (ind	ches): ches): chotos, pro		Wetl		resent? Yes <u>√</u> No

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Cou	unty: _	Kane Coun	ty	Sam	oling Date	e: <u>2024-11</u>	-06
Applicant/Owner: Surya Powered		State: Illinois Sampling Point: P2						P2	
Investigator(s): Eric C Parker, SPWS	, Tow	wnship, Range: sec 18 T042N R007E							
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave, convex, none): None								
Slope (%): <u>3-7</u> Lat: <u>42.111300</u>	۱	Long: <u>-</u> 8	88.44	3600		Datur	m: WGS	84	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent s					NWI clas	sification:	None De	epicted	
Are climatic / hydrologic conditions on the site typical for this ti					_				
Are Vegetation, Soil, or Hydrology sign	-							No	o ✓
Are Vegetation, Soil, or Hydrology nati					ded, explain any ans				
SUMMARY OF FINDINGS - Attach site map sh				point lo	cations, transe	cts, imp	ortant	feature	s, etc.
Hydrophytic Vegetation Present? Yes No _									
Hydric Soil Present? Yes No_				Sampled A			/	,	
Wetland Hydrology Present? Yes No		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	within	a Wetland	1? Yes _		NO <u>√</u>		
Remarks:									
APT analysis indicates climatic conditions are in the drier that	n normal ı	range. <i>I</i>	Ag fiel	d planted i	n soybeans, now ha	rvested; n	ot NC.		
VEGETATION – Use scientific names of plants.									
A COLUMN TO A COLU	Absolute				Dominance Test w	orksheet	:		
1					Number of Dominar That Are OBL, FAC			0	(A)
2					Total Number of Do Species Across All			0	(B)
4.					Percent of Dominar That Are OBL, FAC				(A/B)
451 11	0	= Total	Cove	r _				•	(/
Sapling/Shrub Stratum (Plot size: 15' radius)					Prevalence Index			tiply by:	
1					OBL species				
2					FACW species				_
4					FAC species				_
5					FACU species				_
		= Total	Cove	r	UPL species				_
Herb Stratum (Plot size: 5' radius)					Column Totals:		(A)	0.00	(B)
1					Prevalence In	dex = B/A	۱ =		
2					Hydrophytic Vege				
3					1 - Rapid Test f				
5					2 - Dominance	-			
6.					3 - Prevalence	Index is ≤	3.0 ¹		
7.				_	4 - Morphologic				porting
8					data in Rem		•		
9				II	Problematic H	ydrophytic	Vegetati	ion¹ (Expla	in)
10					1				
Woody Vine Stratum (Plot size: 30' radius)		= Total			¹ Indicators of hydric be present, unless				nust
1					Hydrophytic				
2					Vegetation Present?	Yes	No	1	
		= Total	Cove	r	i ieseilt!	169			
Remarks: (Include photo numbers here or on a separate she	eet.)								
Ag field planted in soybeans in 2024 now harvested and chise Assumed non-hydrophytic vegetation would dominate under I									

US Army Corps of Engineers

SOIL Sampling Point: P2

Profile Des	cription: (D	escribe	to the dep	th needed	l to docur	ment the i	ndicator o	or confir	m the absenc	e of indicators.)			
Depth		Matrix				x Feature:		2					
(inches)	Color (r	-	%	Color (moist)	<u>%</u>	Type'	Loc ²	<u>Texture</u>	Remarks			
0-15	_10YR	3/1	100						SICL	No redox			
<u>15-18</u>	_10YR	4/1	<u>95</u>	10YR	4/2	5	C	M	SICL				
18-24	10YR	4/2	90	10YR	4/4	10	С	M	SICL				
			·			-							
									· -				
			·							·			
													
¹ Type: C=C		n, D=Dep	letion, RM=	Reduced	Matrix, M	S=Masked	I Sand Gra	ins.		ocation: PL=Pore Lining, M=Matrix.			
Hydric Soil					0	Olaal Ma	(O.4)			s for Problematic Hydric Soils ³ :			
Histosol	i (A1) pipedon (A2	`		_		Gleyed Ma			· <u></u>	t Prairie Redox (A16)			
	istic (A3)	,		_	•	Redox (S5 d Matrix (S	•		— Dark	Surface (S7)			
	en Sulfide (A	4)		_		Mucky Mir				Manganese Masses (F12)			
	d Layers (A	5)			-	Gleyed Ma			-	Shallow Dark Surface (TF12)			
	uck (A10)			_		d Matrix (I			Other	(Explain in Remarks)			
	d Below Dar ark Surface		e (A11)	_	_	Dark Surfa			3Indicato	ra of hydrophytic vagatation and			
	ark Suriace Mucky Miner	` ,		_		Depression	rface (F7)			rs of hydrophytic vegetation and nd hydrology must be present,			
	ucky Peat or		3)			- op. 000.0	(. 0)			s disturbed or problematic.			
Restrictive	Layer (if ob	served):	•							·			
Type:													
Depth (in	iches):								Hydric So	il Present? Yes No <u>√</u>			
Remarks:													
HYDROLO	GY												
Wetland Hy	drology Ind	licators:											
Primary Indi	cators (minii	mum of o	ne is requir	ed; check	all that ap	ply)			Second	dary Indicators (minimum of two required)			
Surface	Water (A1)			\	Nater-Sta	ined Leav	es (B9)		Su	rface Soil Cracks (B6)			
High Wa	ater Table (A	\ 2)		/	Aquatic Fa	auna (B13)		Drainage Patterns (B10)				
Saturati	, ,					itic Plants	` '		Dry-Season Water Table (C2)				
Water M						Sulfide O	. ,	_		ayfish Burrows (C8)			
	nt Deposits	(B2)						-		turation Visible on Aerial Imagery (C9)			
Drift De		D4\					ed Iron (C4	,		unted or Stressed Plants (D1)			
Iron Der	at or Crust (I	D4 <i>)</i>				Surface (on in Tilled	i Solis (C		omorphic Position (D2) C-Neutral Test (D5)			
l — ·	ion Visible o	n Aerial I	magery (R7	· 		Well Data			'^	O-Neutral Test (D3)			
	v Vegetated		• • •	. —	•	olain in Re	• •						
Field Obser	, ,		(=										
Surface Wat		Υ	es N	No ✓	Depth (in	ches):							
Water Table			es N										
Saturation P			es N						land Hydrolo	gy Present? Yes No/_			
(includes ca)											
				_	ell, aerial _l	photos, pr	evious insp	pections)	, if available:				
GE and NAIF	aenai imag	jery, OSA	Completed	ļ. 									
Remarks:	v drology in	diaatara a	boomand n	a acturatio	n Tilo not	twork influ	anaina thia	oroo n	. D2				
No wetland h	iyarology ind	iicaiOIS C	ibsei veu, M	ว รสเนเสเเน	ii. Tile He	LVVOIR IIIIIU	enong tills	area, no	J UZ.				

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/C	ounty:	Kane Cou	nty	Samplir	ng Date: <u>2024-1</u>	1-06
Applicant/Owner: Surya Powered					State: Illinois	Sampling	Point: P3	
Investigator(s): Eric C Parker, SPWS		Sectio	n, Tov	vnship, Rar	nge: <u>sec 18 T042N R0</u>)07E		
Landform (hillslope, terrace, etc.): Swale							e	
Slope (%): 0-2 Lat: 42.110356								
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percentage		_						
Are climatic / hydrologic conditions on the site typical for the								
Are Vegetation, Soil, or Hydrology	-							√ ol
Are Vegetation, Soil, or Hydrology	naturally pro	blema	tic?	(If ne	eded, explain any ans	wers in Ren	narks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	g point lo	ocations, transec	ts, impo	rtant feature	es, etc.
Hydrophytic Vegetation Present? Yes	No ✓							
Hydric Soil Present? Yes				Sampled		Na	. /	
Wetland Hydrology Present? Yes			withi	n a wetian	id? Yes	NO	· 	
Remarks: APT analysis indicates climatic conditions are in the drier	than normal	range	. Ag fie	eld planted	in soybeans, now har	vested; not	NC.	
VEGETATION – Use scientific names of plant								
	Absolute	Dom	inant	Indicator	Dominance Test wo	orksheet:		
Tree Stratum (Plot size: 30' radius) 1	% Cover				Number of Dominant That Are OBL, FACV		0	_ (A)
2					Total Number of Dor Species Across All S		1	_ (B)
4. 5.					Percent of Dominant That Are OBL, FACV	: Species N, or FAC:	0.00	_ (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	0	= Tota	al Cov	er	Prevalence Index w	orksheet:		
1					Total % Cover o		Multiply by:	
2					OBL species			<u> </u>
3.					FACW species	0 x	2 =0	
4					FAC species			
5					FACU species	<u>5</u> x	4 = 20	
	_	= Tota	al Cov	er	UPL species	<u>0</u> x	5 = 0	_
Herb Stratum (Plot size: 5' radius) 1. VERONICA ARVENSIS	5	\	/	FACU	Column Totals:	<u>5</u> (A	A) <u>20.00</u>	(B)
2					Prevalence Ind	lex = B/A =	4.0	<u></u>
3					Hydrophytic Veget	ation Indic	ators:	
4.					1 - Rapid Test fo	r Hydrophy	tic Vegetation	
5.					2 - Dominance T	est is >50%	6	
6					3 - Prevalence Ir	ndex is ≤3.0)1	
7					4 - Morphologica	al Adaptatio	ns¹ (Provide sup separate sheet	pporting
8					Problematic Hy			•
9					Problematic Hy	uropriyuc ve	egetation (Expi	.aiii)
10	5.0	 = Tota	al Cov	er	¹ Indicators of hydric be present, unless of			must
1					Hydrophytic			
2					Vegetation	Vaa	No. /	
	0	= Tota	al Cov	er	Present?	162	_ No <u>√</u>	
Remarks: (Include photo numbers here or on a separate	,							
Ag field planted in soybeans in 2024 now harvested and spillage.	chisel plowed	l . Not	NC. S	parse wee	ds present; some soyb	ean germin	ation from seed	1

SOIL Sampling Point: P3

Profile Des	cription: (D	Describe	to the dep	th needed	to docur	ment the	indicator	or confi	rm the absenc	e of indicators.)				
Depth Matrix				Redox Features					_					
(inches)		Color (moist) %		Color (moist)		%	Type ¹ Loc		<u>Texture</u>	Remarks				
0-13	_10YR	3/1	<u> 100</u>			-			_ <u>L</u>	No redox				
13-18	<u>10YR</u>	5/2	60	_10YR_	5/6	20	C	M	SL	Mixed matrix				
	10YR	3/1	20						SL					
18-24	10YR	3/1	95	10YR	3/3	- <u></u> 5	С	M	SICL					
					0,0		. <u> </u>							
									_	- <u> </u>				
						-			_					
										<u> </u>				
¹ Type: C=C			etion, RM=	Reduced N	Matrix, MS	S=Masked	Sand Gra	ains.		ocation: PL=Pore Lining, M=Matrix.				
Hydric Soil							(0.1)			s for Problematic Hydric Soils ³ :				
Histosol	` '			_		Gleyed Ma			Coas	Coast Prairie Redox (A16)				
	pipedon (A2 istic (A3)	.)		Sandy Redox (S5)Stripped Matrix (S6)					— Dark	— Dark Surface (S7)				
	en Sulfide (A	\4)				Mucky Mir	,		Iron-Manganese Masses (F12)					
	d Layers (À					Gleyed Ma			Very	Very Shallow Dark Surface (TF12)				
I	uck (A10)					d Matrix (Other	Other (Explain in Remarks)				
I — ·	d Below Dai		e (A11)	_	-	Dark Surfa	` ,		3	3				
	ark Surface			_			ırface (F7)			³ Indicators of hydrophytic vegetation and				
Sandy Mucky Mineral (S1) Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3)										wetland hydrology must be present, unless disturbed or problematic.				
Restrictive	-									o diotal do a problemation				
Type:		•												
Depth (in	ches):								Hydric So	il Present? Yes No <u>√</u>				
Remarks:														
HYDROLO	GY													
Wetland Hy	drology Inc	licators:												
Primary Indi	cators (mini	mum of o	ne is requi	red; check	all that ap	ply)			Second	dary Indicators (minimum of two required)				
Surface	Water (A1)			V	Vater-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)					
High Water Table (A2)				A	Aquatic Fa	auna (B13)		Drainage Patterns (B10)					
Saturation (A3)				T	rue Aqua	itic Plants	(B14)		Dry-Season Water Table (C2)					
Water M	1arks (B1)			F	Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)					
Sedime	nt Deposits	(B2)		0	Oxidized F	Rhizosphe	res on Liv	ng Root	s (C3) Sa	turation Visible on Aerial Imagery (C9)				
l — .	posits (B3)						ed Iron (C4			unted or Stressed Plants (D1)				
	at or Crust (B4)					on in Tille	d Soils (0		eomorphic Position (D2)				
l — ·	oosits (B5)		(D			Surface (` '		FA	.C-Neutral Test (D5)				
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)														
	, ,	Concave	: Ѕипасе (і	B8) C	otner (Exp	olain in Re	emarks)	1						
Field Obser				Na /	Danth (in	-1\.								
Surface Water Present? Yes No Depth (inches):														
Water Table Present? Yes No ✓ Depth (inches):									Wetland Hydrology Present? Yes No _√_					
(includes capillary fringe)														
			gauge, mo	nitoring we	ell, aerial p	photos, pr	evious ins	pections), if available:					
GE and NAIF	aerial imag	gery; OSA	complete	d.										
Remarks:														
No wetland h	ydrology ind	dicators o	bserved, n	o saturatio	n. Tile net	twork pres	sent, no D2	2.						

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Coun	ty: <u>Kane Coι</u>	ınty	Samp	Sampling Date: 2024-11-06			
Applicant/Owner: Surya Powered				State: Illinois	Samplir	Sampling Point: P4			
Investigator(s): Eric C Parker, SPWS	:	Section, 7	Township, Ra	nge: <u>sec 18 T042N R</u>	007E				
Landform (hillslope, terrace, etc.): Depression			Local relief	(concave, convex, nor	ne): <u>Conc</u>	ave			
Slope (%): 0-2 Lat: 42.110061	Long: <u>-88.460471</u> Datum: WGS84								
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 perce		NWI classification: None Depicted							
Are climatic / hydrologic conditions on the site typical for the	is time of yea	ar? Yes _	No	✓ (If no, explain i	n Remark	s.)			
Are Vegetation, Soil, or Hydrology	significantly	disturbed ²	? Are "	Normal Circumstance	s" present	:? Yes	No) <u>/</u>	
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eded, explain any ans	wers in R	emarks.)			
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ng point l	ocations, transed	cts, imp	ortant fe	atures	s, etc.	
Hydrophytic Vegetation Present? Yes✓_ N	No	le	the Sampled	Aroa					
Hydric Soil Present? Yes ↑			thin a Wetlar						
Wetland Hydrology Present? Yes <u>√</u> N	No								
Remarks: APT analysis indicates climatic conditions are in the drier	than normal	range. Ag	ງ field planted	in soybeans, now har	vested; no	ot NC.			
VEGETATION – Use scientific names of plants	3.								
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1.		Species	nt Indicator ? Status	Number of Dominan That Are OBL, FAC	t Species			(A)	
2. 3.				Total Number of Do	minant	0		(B)	
4. 5.				Percent of Dominan That Are OBL, FAC				(A/B)	
Sapling/Shrub Stratum (Plot size: 15' radius)	0	= Total C	over	Prevalence Index v	vorkshee	t:			
1				Total % Cover of	of:	Multiply	/ by:	_	
2				OBL species				_	
3				FACW species				_	
4				FAC species				_	
5		T-4-1 0		FACU species				_	
Herb Stratum (Plot size: 5' radius)		= Total C	over	UPL species Column Totals:			0.00	– (B)	
1						(7.)		_ (5)	
2				Prevalence Inc				_	
3				Hydrophytic Vege			-4:		
4				1 - Rapid Test for 2 - Dominance	-	-	ILION		
5				3 - Prevalence I					
6				4 - Morphologic			ıde sunr	nortina	
7 8				data in Rema	arks or on	a separate	sheet)	Jorting	
9.				Problematic Hy	drophytic	Vegetation ¹	(Explai	in)	
10.									
Woody Vine Stratum (Plot size: 30' radius)	0	= Total C		¹ Indicators of hydric be present, unless				nust	
1				Hydrophytic					
2				Vegetation Present?	Yes ✓	No			
		= Total C	over						
Remarks: (Include photo numbers here or on a separate	,						_	_	
Ag field planted in soybeans in 2024 now harvested and c									

US Army Corps of Engineers

Profile Des	cription: (E	Describe	to the dep	th needed	to docu	ment the i	indicator	or confi	rm the absen	ce of indicators.)
Depth		Matrix				x Feature			_	
(inches)	Color (r		%	Color (ı	moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	_10YR	3/1	_100_			- ——			_ <u>L</u>	No redox
8-15	_10YR	4/1	_90_	10YR	4/3	10	C	M	_ <u>L</u>	
15-20	10YR	4/2	_90_	10YR	4/4	10	C	M	_ <u>L</u>	
20-24	10YR	2/1	100						SIL	No redox
									_	- -
						-				
1- 0.0										
¹ Type: C=C Hydric Soil			etion, RM=	Reduced I	Matrix, M	S=Masked	Sand Gra	ains.		Location: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
Histosol					Sandy	Cloved Ma	ntriv (S1)			st Prairie Redox (A16)
	pipedon (A2	')				Gleyed Ma Redox (S5			<u> </u>	, ,
	istic (A3)	.,		_		d Matrix (S	,			Surface (S7)
	en Sulfide (A				Loamy	Mucky Mir	neral (F1)			-Manganese Masses (F12)
	d Layers (A	5)				Gleyed Ma			-	/ Shallow Dark Surface (TF12)
	uck (A10)	ale Countra a	- (011)			ed Matrix (I	,		Oth	er (Explain in Remarks)
	d Below Dai ark Surface		e (A11)		='	Dark Surfa d Dark Su	, ,		3Indicate	ors of hydrophytic vegetation and
	лк ойнасс Лиску Miner				- •	Depressio				and hydrology must be present,
	ucky Peat or		3)		_		` ,			ss disturbed or problematic.
Restrictive	Layer (if ob	served):								
Type:										
Depth (in	ches):								Hydric S	oil Present? Yes No
Remarks:										
HYDROLO										
Wetland Hy										
Primary India	cators (mini	mum of o	ne is requir	ed; check	all that ap	pply)			Secor	ndary Indicators (minimum of two required)
I —	Water (A1)					ined Leav	` '			urface Soil Cracks (B6)
	ater Table (A	A 2)				auna (B13				rainage Patterns (B10)
Saturati						atic Plants				ry-Season Water Table (C2)
	farks (B1)	(DO)				Sulfide O			,	rayfish Burrows (C8)
	nt Deposits	(B2)				Rhizosphe		_	· · —	aturation Visible on Aerial Imagery (C9)
l —	posits (B3) at or Crust (R4)		·		of Reduce on Reducti	•	,	,	tunted or Stressed Plants (D1) seomorphic Position (D2)
_	posits (B5)	D 4)		·		Surface (u Oolis (C		AC-Neutral Test (D5)
✓ Inundati		n Aerial I	magery (B7			Well Data	,		<u> </u>	710 110allali 1001 (20)
	y Vegetated		• • •	. —	-	olain in Re	` '			
Field Obser	vations:					<u>'</u>				
Surface Wat	er Present?	Y	es I	No <u>√</u>	Depth (in	ches):		_		
Water Table	Present?		es I							
Saturation P	resent?		es I						etland Hydrolo	ogy Present? Yes No
(includes ca		e)								
GE and NAIF				_	eli, aeriai	pnotos, pr	evious ins	pections	s), if available:	
	acılal IIIId(july, USF	, completed	J.						
Remarks:	procent box	0001177	1 to be =::=	ioloptky de-	ofunation -	d aireas 46 -	o othor ===	ramatar-	tho 004 le-	decape position other budgets as indicates.
and profession			ı ιο be su∏	ici c ritiy ays	oruncuona	ıı giveri tile	- omer par	ameters	s, uie OSA, ian	dscape position, other hydrology indicators,
·										

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/County: Kane County Sampling Date: 2024-11-06							1-06	
Applicant/Owner: Surya Powered					State: Illi	nois	Samp	ling Poin	t: <u>P5</u>	
Investigator(s): Eric C Parker, SPWS	;	Section	n, Tow	nship, Rar	nge: <u>sec 19 T</u>	042N R	007E			
Landform (hillslope, terrace, etc.): Depression			Lo	ocal relief (concave, con	vex, nor	e): <u>Cor</u>	cave		
Slope (%): 0-2 Lat: 42.107509		Long:	-88.45	7940			Dat	um: WG	S84	
Soil Map Unit Name: <u>Drummer silty clay loam</u> , 0 to 2 percent	slopes				N	WI class	sification	: None [Depicted	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Y	es	No	✓ (If no, e	explain i	n Rema	rks.)		
Are Vegetation, Soil, or Hydrology sig									s N	o <u>/</u>
Are Vegetation, Soil, or Hydrology na										
SUMMARY OF FINDINGS - Attach site map s										s, etc.
Hydrophytic Vegetation Present? Yes No					_					
Hydric Soil Present? Yes No				Sampled		Vaa	/	No		
Wetland Hydrology Present? Yes No			withir	n a Wetlan	a r	res_		NO		
Remarks: APT analysis indicates climatic conditions are in the drier that	an normal	range	. Aa fie	ld planted	in sovbeans.	now har	vested:	not NC.		
VEGETATION – Use scientific names of plants.										
001 11	Absolute % Cover				Dominance					
1					Number of D That Are OB				0	(A)
2.					Total Numbe	or of Do	minant	·		` ,
3					Species Acr				0	(B)
4					Percent of D)ominan	t Specie	ıs.		
5	_				That Are OB					(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)		= Tota	al Cove	er	Prevalence	Index v	orkshe	et:		
1					Total %	Cover	of:	M	ultiply by:	
2.					OBL species	s	0	_ x 1 =	0	_
3					FACW spec	ies	0	x 2 =	0	_
4					FAC species					_
5					FACU speci					_
Herb Stratum (Plot size: 5' radius)	0	= Tota	al Cove	er	UPL species			_ x 5 =		
1					Column Tota	als:	0	_ (A)	0.00	(B)
2					Preval	ence Inc	dex = B	/A =		_
3.					Hydrophyt	ic Vege	tation Ir	ndicator	s:	
4.					1 - Rapi	d Test fo	or Hydro	phytic V	egetation	
5					2 - Dom	inance ⁻	Γest is >	50%		
6					3 - Preva	alence I	ndex is	≤3.0 ¹		
7					4 - Morp					
8									arate sheet)	
9					Probler	папс ну	aropnyt	ic vegeta	ation (Expi	iin)
10					¹ Indicators of	of hydric	eoil and	d wetland	l hydrology	muet
Woody Vine Stratum (Plot size: 30' radius)	0	= Tota	al Cove	er	be present,					must
1										
2.					Hydrophytic Vegetation					
	0		-l C		Present?		Yes	<u>√</u> N	o	
Remarks: (Include photo numbers here or on a separate sh		= 1 Ot	al Cove	er.						
Ag field planted in soybeans in 2024 now harvested and chis	sel plowed					soybear	n germir	nation fro	m seed spil	lage.

Profile Des	cription: (E	Describe 1	to the dep	th needed	l to docui	ment the i	indicator	or confir	m the abser	nce of indicators.)	
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks											
		-		Color (moist)	%	Type'	Loc ²	<u>Texture</u>	Remarks	
8	_10YR	4/1	<u> 100</u>						L_	No redox	
<u>8-16</u>	<u>10YR</u>	4/1	90	<u>10YR</u>	4/4	10	<u>C</u>	M_	L_		
16-24	10YR	3/1	_100_						SIL	No redox	
									-		
	-										
	-										
¹ Type: C=C			etion, RM=	Reduced	Matrix, M	S=Masked	Sand Gra	ins.		Location: PL=Pore Lining, M=Matrix.	
Hydric Soil					0	Olassa d N4a	t-1- (O.1)			ors for Problematic Hydric Soils ³ :	
Histosol	(A1) pipedon (A2	1				Gleyed Ma				ast Prairie Redox (A16)	
	istic (A3)	,			•	Redox (S5 d Matrix (S	•		— Dar	k Surface (S7)	
	en Sulfide (A	N4)				Mucky Mir				n-Manganese Masses (F12)	
Stratified	d Layers (A	5)				Gleyed Ma				y Shallow Dark Surface (TF12)	
	uck (A10)			_✓		d Matrix (,		Oth	ner (Explain in Remarks)	
	d Below Dai		e (A11)	-	_	Dark Surfa	, ,		31		
	ark Surface /lucky Miner			_		Depressio	ırface (F7)			tors of hydrophytic vegetation and land land hydrology must be present,	
	ucky Peat or		3)	-		2 001.000.0	(. 0)			ess disturbed or problematic.	
Restrictive	-		·							•	
Type:											
Depth (in	ches):								Hydric S	soil Present? Yes <u>√</u> No	
Remarks:											
HYDROLO	GY										
Wetland Hy	drology Inc	licators:									
Primary India	cators (minii	mum of o	ne is requi	ed; check	all that ap	ply)			Seco	ndary Indicators (minimum of two required)	
Surface	Water (A1)			\	Water-Sta	ined Leav	es (B9)		8	Surface Soil Cracks (B6)	
High Wa	ater Table (A	\ 2)		/	Aquatic Fa	auna (B13)		[Orainage Patterns (B10)	
Saturati	on (A3)					atic Plants				Ory-Season Water Table (C2)	
Water M					-	Sulfide O				Crayfish Burrows (C8)	
	nt Deposits	(B2)					res on Livi	-		Saturation Visible on Aerial Imagery (C9)	
Drift De	, ,	D.4\					ed Iron (C4	,		Stunted or Stressed Plants (D1)	
_	at or Crust (l posits (B5)	B4)					on in Tilled	i Solis (C		Geomorphic Position (D2)	
	on Visible o	n Aerial II	magery (Ri			: Surface (Well Data			'	FAC-Neutral Test (D5)	
	y Vegetated				-	olain in Re					
Field Obser	=		· canaco (i		O 1.101 (EX		marko)				
Surface Wat		Ye	es l	No ✓	Depth (in	ches):					
Water Table			es								
Saturation P			es						tland Hydrol	ogy Present? Yes No	
(includes ca	pillary fringe	e)				-					
Describe Re				-	ell, aerial _l	photos, pr	evious insp	pections)	, if available:		
GE and NAIF	aeriai imag	jery; OSA	completed	1.							
Remarks:		-							= .		
Consistent si position, and			•	ent but ass	sumed to l	pe sufficie	ntiy dysfun	nctional g	iven the OSA	A, other hydrology parameters, landscape	
F 55.1.511, GIIG	F. 0.00010110	,									

Project/Site: 20241389 Kane Co 107.87-Ac Property	City/County: Kane County Sampling Date: 2024-11-06								-06	
Applicant/Owner: Surya Powered					State: Illino	ois S	Sampling	Point:	P6	
Investigator(s): Eric C Parker, SPWS	§	Sectio	n, Tow	nship, Ran	ge: sec 18 T04	2N R007	Έ			
Landform (hillslope, terrace, etc.): Saddle			Lo	ocal relief (concave, conve	x, none):	Convex			
Slope (%): <u>0-2</u> Lat: 42.107858	L	ong:	-88.45	8052			Datum:	WGS8	4	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slo	opes				NW	'I classific	ation: No	one De	picted	
Are climatic / hydrologic conditions on the site typical for this tim	ne of yea	r? Ye	es	No	✓ (If no, ex	plain in R	emarks.))		
Are Vegetation, Soil, or Hydrology signi									No	o <u>√</u>
Are Vegetation, Soil, or Hydrology natur										
SUMMARY OF FINDINGS – Attach site map sho										s, etc.
Hydrophytic Vegetation Present? Yes No	<u> </u>		1- 41	0	A					
Hydric Soil Present? Yes No	<u>✓</u>			Sampled a Wetlan		/es	No	. /		
Wetland Hydrology Present? Yes No			witiiii	i a vvetiani	u:			<u> </u>	_	
Remarks: APT analysis indicates climatic conditions are in the drier than	normal r	ange	Ag fie	ld planted	in soybeans, no	w harves	sted; not	NC.		
VEGETATION – Use scientific names of plants.				Ţ						
		Spec	ies?	Status	Number of Do That Are OBL,	minant S _l	pecies		0	(A)
2					Total Number Species Acros				0	(B)
4. 5.			ol Cove	ar	Percent of Dor That Are OBL					(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)		- 1016	ii Cove	7	Prevalence In	idex wor	ksheet:			
1					Total % C				iply by:	_
2					OBL species					
3					FACW species					_
4					FAC species FACU species					_
5	0 =		l Cove		UPL species		x			_
Herb Stratum (Plot size: 5' radius)		- 10la	ii Cove	;1	Column Totals				0.00	_ _ (B)
1					Prevaler	nce Index	= B/A =			
2					Hydrophytic					
3					1 - Rapid	•			etation	
4					2 - Domin			_		
5					3 - Prevale					
7					4 - Morph	ological A	Adaptatio	ns¹ (Pr	ovide sup	porting
8.									ite sheet)	
9					Problema	atic Hydro	phytic V	egetatio	on¹ (Expla	in)
10		 = Tota	al Cove	er	¹ Indicators of be present, u					must
1				-	·					
2.					Hydrophytic Vegetation				,	
Remarks: (Include photo numbers here or on a separate shee		= Tota	al Cove	er	Present?	Ye	s	_ No		
Ag field planted in soybeans in 2024 now harvested and chisel	,	. Not	NC. W	eeds not p	resent; some so	oybean ge	erminatio	n from	seed spill	age.

Profile Des	cription: (D	Describe	to the dep	th needed	to docu	ment the	indicator	or confir	m the absence	e of indicators.)				
Depth		Matrix				x Feature								
(inches)	Color (r	moist)	%	Color (ı	moist)	%	Type ¹	Loc ²		Remarks				
0-15	<u>10YR</u>	4/1	<u> 100</u>						SIL_	No redox				
15-20	_10YR	4/1	<u>95</u>	_10YR_	4/2	5	C	M	SICL					
20-24	10YR	5/2	85	10YR	4/4	15	С	М	SIC					
	•					-								
	-		· ——					-	· 					
¹Type: C=C			letion, RM=	Reduced I	Matrix, M	S=Masked	d Sand Gra	ins.		cation: PL=Pore Lining, M=Matrix.				
Hydric Soil					0	Olever al Ma	-t (O.1)			s for Problematic Hydric Soils ³ :				
Histosol	(A1) pipedon (A2	·\				Gleyed Ma		Coast Prairie Redox (A16)						
	istic (A3)	.)			•	Redox (S5 d Matrix (S	,			Surface (S7)				
	en Sulfide (A	\ 4)				Mucky Mi				Manganese Masses (F12)				
	d Layers (A	5)			-	Gleyed Ma			-	Shallow Dark Surface (TF12)				
	uck (A10)					d Matrix (,		Other	(Explain in Remarks)				
	d Below Dai		e (A11)		_	Dark Surfa	ace (F6) ırface (F7)		3Indicator	s of hydrophytic vegetation and				
I	ark Surface /lucky Miner	. ,				Depressio	, ,			s of flydrophytic vegetation and nd hydrology must be present,				
	ucky Peat or		3)	-		- op. 000.0	()			s disturbed or problematic.				
Restrictive	-									·				
Type:														
Depth (in	ches):								Hydric Soi	I Present? Yes No <u>√</u>				
Remarks:														
HYDROLO														
Wetland Hy														
Primary Indi	cators (minii	mum of o	ne is requir		•				Second	ary Indicators (minimum of two required)				
	Water (A1)					ined Leav	` ,			face Soil Cracks (B6)				
	ater Table (A	A 2)				auna (B13				ninage Patterns (B10)				
Saturati	` '				•	atic Plants	` '		-	v-Season Water Table (C2)				
	farks (B1)	(D2)				Sulfide O	aor (C1) eres on Livi	na Dooto		ayfish Burrows (C8)				
Sedime		(DZ)					ed Iron (C4	•		turation Visible on Aerial Imagery (C9) Inted or Stressed Plants (D1)				
Algal Ma		B4)					on in Tilled	,		omorphic Position (D2)				
Iron Dep	•	,				Surface (C-Neutral Test (D5)				
Inundati		n Aerial I	magery (B7			Well Data	` '		_	,				
Sparsel	y Vegetated	Concave	Surface (E	38) (Other (Exp	olain in Re	emarks)							
Field Obser	vations:													
Surface Wat	er Present?	Y	es I	No <u>√</u>	Depth (in	ches):		_						
Water Table	Present?	Υ	es I	No <u>√</u>	Depth (in	ches):		_						
Saturation P			es I	No <u>√</u>	Depth (in	ches):		_ Wet	land Hydrolog	gy Present? Yes No				
(includes ca Describe Re			dalide mo	nitorina we	ell aerial	nhotos nr	evious ins	nections)	if available:					
GE and NAIF				_				pections),	, ii availabic.					
Remarks:														
No wetland h	ydrology ind	dicators c	bserved, n	o saturatio	n. Tile ne	twork pres	sent and a	ssumed to	o be sufficiently	/ functional in this area.				

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/Count	ty: Kane Cou	ınty	Sampling Date: <u>2024-11-06</u>					
Applicant/Owner: Surya Powered				State: Illinois	Sampling Point: P7					
Investigator(s): Eric C Parker, SPWS	;	Section, T	ownship, Rai	nge: <u>sec 19 T042N R</u>	007E					
Landform (hillslope, terrace, etc.): Depression			Local relief	(concave, convex, nor	ne): <u>Conc</u> a	ave				
Slope (%): 0-2 Lat: 42.108207	ا	Long: <u>-88</u>	.458384		Datur	n: WGS84				
Soil Map Unit Name: Clare silt loam, 0 to 2 percent slopes				NWI class	sification:	None Depic	ted			
Are climatic / hydrologic conditions on the site typical for th	is time of yea	ar? Yes _	No	✓ (If no, explain i	n Remark	s.)				
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	? Are "	Normal Circumstance	s" present	? Yes	No			
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eded, explain any ans	wers in R	emarks.)				
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ng point l	ocations, transed	cts, imp	ortant fe	atures	s, etc.		
Hydrophytic Vegetation Present? Yes I	No	lo 4	the Compled	Avoc						
Hydric Soil Present? Yes I			the Sampled thin a Wetlar		./ 1	No				
Wetland Hydrology Present? Yes I	No		iiiii a wedai	103_			•			
Remarks: APT analysis indicates climatic conditions are in the drier	than normal	range. Ag	field planted	in soybeans, now har	vested; no	ot NC.				
VEGETATION – Use scientific names of plants	S.									
	Absolute	Dominar	nt Indicator	Dominance Test w	orksheet:					
Tree Stratum (Plot size: 30' radius) 1.			? Status	Number of Dominan That Are OBL, FAC				(A)		
2				Total Number of Do Species Across All S		0		(B)		
4. 5.				Percent of Dominan That Are OBL, FAC				(A/B)		
Sapling/Shrub Stratum (Plot size: 15' radius)		= Total Co	over	Prevalence Index v	vorkshee	<u>:</u>				
1				Total % Cover of	of:	Multiply	/ by:	_		
2				OBL species	0	x 1 =	0	_		
3				FACW species				_		
4				FAC species				_		
5				FACU species				_		
Herb Stratum (Plot size: 5' radius)		= Total Co	over	UPL species Column Totals:			0).00	– (B)		
1				Column rotals.		(A)	7.00	_ (D)		
2				Prevalence Inc	dex = B/A	.=		_		
3				Hydrophytic Vege						
4				1 - Rapid Test fo	-	-	ation			
5				2 - Dominance						
6				3 - Prevalence I						
7				4 - Morphologic	al Adaptat arks or on	ions¹ (Provi	de supp sheet)	orting		
8				Problematic Hy		•	,	in)		
9					ш. ор у шо	r ogotation	(=/\p.a.	,		
10		= Total Co	over	¹ Indicators of hydric be present, unless				nust		
1				Hydrophytic						
2				Vegetation		,				
Damanda, (Individual sharts assert		= Total Co	over	Present?	Yes <u>√</u>	No				
Remarks: (Include photo numbers here or on a separate	,	I Not NO	Moods ast	propont: some south =	n gormin-	tion from a=	od opili-	200		
Ag field planted in soybeans in 2024 now harvested and of Assumed hydrophytic vegetation would dominate under N										

Profile Desc	cription: (D	escribe 1	to the dep	th needed	to docur	ment the	indicator	or confir	m the absence	e of indicators.)
Depth		Matrix				x Feature		. 2	·	
(inches)	Color (r		<u>%</u>	Color (r	noist)	%	Type ¹	Loc ²	Texture	Remarks
8	_10YR_	4/1	_100_						L	No redox
8-20	_10YR	4/1	93	_10YR	4/3	7	C	M	SICL	
20-24	10YR	4/1	90	10YR	4/3	10	C	M	SICL	
								-		
	•					-				
									· -	
¹Type: C=C			etion, RM=	Reduced N	Matrix, MS	S=Masked	d Sand Gra	ains.		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil										s for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2	1				Gleyed Ma			Coas	t Prairie Redox (A16)
	istic (A3)	•)				Redox (S5 d Matrix (S			— Dark	Surface (S7)
· 	en Sulfide (A	4)				Mucky Mir			Iron-N	Manganese Masses (F12)
	d Layers (A					Gleyed Ma			Very	Shallow Dark Surface (TF12)
	uck (A10)			\checkmark		ed Matrix (Other	(Explain in Remarks)
	d Below Dar		e (A11)		_	Dark Surfa	` ,		3	
	ark Surface ⁄lucky Miner					ed Dark St Depressio	urface (F7)			s of hydrophytic vegetation and nd hydrology must be present,
	ucky Peat or		3)		_ Nedox I	Dehlessio	115 (1 0)			s disturbed or problematic.
Restrictive			· /						1	- Carotano de Propionidado.
Type:		·								
Depth (in	ches):								Hydric Soi	I Present? Yes No
Remarks:	,									
HYDROLO	GY									
Wetland Hy	drology Ind	licators:								
Primary India	cators (minii	mum of o	ne is requir	ed; check	all that ap	ply)			Second	lary Indicators (minimum of two required)
Surface	Water (A1)			V	Vater-Sta	ined Leav	es (B9)		Su	rface Soil Cracks (B6)
High Wa	ater Table (A	\ 2)		A	Aquatic Fa	auna (B13)		Dra	ainage Patterns (B10)
Saturati	on (A3)			T	rue Aqua	atic Plants	(B14)		Dry	y-Season Water Table (C2)
Water M	larks (B1)			F	Hydrogen	Sulfide O	dor (C1)		Cra	ayfish Burrows (C8)
Sedime	nt Deposits	(B2)		0	Oxidized F	Rhizosphe	res on Livi	ng Roots	s (C3) <u>√</u> Sa	turation Visible on Aerial Imagery (C9)
	posits (B3)						ed Iron (C4	•		inted or Stressed Plants (D1)
_	at or Crust (I	B4)					on in Tilled	d Soils (C		omorphic Position (D2)
l —	oosits (B5)					Surface (FA	C-Neutral Test (D5)
✓ Inundati					-	Well Data				
	y Vegetated	Concave	Surface (E	38) (Other (Exp	olain in Re	emarks)			
Field Obser					D " "					
Surface Wat			es !							
Water Table			es !							
Saturation P (includes ca			es I	Vo <u>√</u>	Depth (in	ches):		_ Wet	land Hydrolog	gy Present? Yes No
	corded Data	(stream		-	ell, aerial _l	photos, pr	evious ins	pections)	, if available:	
Remarks:										
Consistent si	gnature are	a. Tile ne	twork prese	ent but ass	umed to l	be sufficie	ntly dysfur	nctional in	this depression	on.

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/County: Kane County Sampling Date: 2024-11-06						
Applicant/Owner: Surya Powered				State: Illinois	Sampling F	Point: P8		
Investigator(s): Eric C Parker, SPWS		Section, ⁻	Township, Rai	nge: <u>sec 18 T042N R0</u>	107E			
Landform (hillslope, terrace, etc.): Sideslope			_ Local relief	(concave, convex, none	e): <u>None</u>			
Slope (%): 0-2 Lat: 42.106177		Long: <u>-88</u>	3.459792		Datum: \	WGS84		
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percen	t slopes			NWI class	ification: No	ne Depicted		
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes_	No	✓ (If no, explain in	n Remarks.)			
Are Vegetation, Soil, or Hydrology si							o <u> </u>	
Are Vegetation, Soil, or Hydrologyn	aturally pro	blematic?	? (If ne	eded, explain any ansv	wers in Rem	arks.)		
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ing point le	ocations, transec	ts, impor	tant feature	s, etc.	
Hydrophytic Vegetation Present? Yes No	· 🗸		41 011	A				
Hydric Soil Present? Yes No			the Sampled ithin a Wetlar		No_	/		
Wetland Hydrology Present? Yes No		W1	uiiii a vveuai	iu: 165				
Remarks: APT analysis indicates climatic conditions are in the drier the		range. Aç	g field planted	in soybeans, now harv	rested; not N	1C.		
VEGETATION – Use scientific names of plants.								
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1	% Cover	Species	nt Indicator Status	Number of Dominant That Are OBL, FACV	Species	0	(A)	
3.				Total Number of Don Species Across All S		2	(B)	
4. 5.				Percent of Dominant That Are OBL, FACV		0.00	(A/B)	
Sapling/Shrub Stratum (Plot size: 15' radius)		= Total C	over	Prevalence Index w	orksheet:			
1		-		Total % Cover of			_	
2				OBL species				
3	. ———			FACW species			_	
4				FACILITY STATES			_	
5		T-4-10		FACU species	7 x 2 0 x 5		_	
Herb Stratum (Plot size: 5' radius)		= Total C	over	Column Totals:			 (B)	
1. VERONICA ARVENSIS	5	Y	<u>FACU</u>	Column Fotals.	(^,) <u></u>	_ (b)	
2. Taraxacum officinale		Y	_ <u>FACU</u>	Prevalence Ind			_	
3				Hydrophytic Veget				
4				1 - Rapid Test fo		•		
5				2 - Dominance T				
6				3 - Prevalence In				
7				4 - Morphologica data in Rema	ıı Adaptation ırks or on a s	ns" (Provide sup separate sheet)	porting	
8				Problematic Hyd	drophytic Ve	getation ¹ (Expla	ain)	
9								
Woody Vine Stratum (Plot size: 30' radius)		= Total C	Cover	¹ Indicators of hydric be present, unless d			must	
1				Hydrophytic				
2				Vegetation	Vos	No. :/		
		= Total C	Cover	rieseill!		No <u>√</u>		
Remarks: (Include photo numbers here or on a separate s	heet.)				·		-	
Ag field planted in soybeans in 2024 now harvested and ch spillage. Adjacent field edge 50' to west dominated by Bron			C. Sparse wee	ds present; some soyb	ean germina	ation from seed		

Profile Desc	cription: (D	escribe	to the dept	h needed to doo	ument the	indicator o	or confirm	n the absence	of indicators.)
Depth		Matrix			dox Featu			_	
(inches)	Color (n		<u></u> %	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-14	<u>10YR</u>	4/1	_100_					L	No redox
<u>14-24</u>	<u>10YR</u>	3/1	_100_					SIL	No redox
								<u> </u>	
	-						-		-
								-	
¹ Type: C=Co	oncentration	, D=Depl	etion, RM=F	Reduced Matrix,	MS=Mask	ed Sand Gra	ains.	² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)			Sand	y Gleyed N	/latrix (S4)		Coast	Prairie Redox (A16)
	pipedon (A2))		Sand	y Redox (S	S5)		— Dark S	Surface (S7)
	istic (A3)				ed Matrix				langanese Masses (F12)
	en Sulfide (A					lineral (F1)			Shallow Dark Surface (TF12)
	d Layers (A5 uck (A10)))			iy Gieyed i eted Matrix	Matrix (F2)		-	(Explain in Remarks)
	d Below Dar	k Surface	(A11)		x Dark Sui			Oulei	(Explain in Remarks)
l — ·	ark Surface		, (, (, , ,			Surface (F7)		3Indicators	s of hydrophytic vegetation and
l —	Aucky Miner	. ,			x Depress	, ,			d hydrology must be present,
5 cm Mu	icky Peat or	Peat (S3	3)					unless	disturbed or problematic.
Restrictive I	Layer (if ob	served):							
Type:				<u></u>					
Depth (in	ches):							Hydric Soil	Present? Yes No/_
Remarks:								1	
LIVEROLO	.07								
HYDROLO									
Wetland Hy									
		num of o	ne is require	ed; check all that					ary Indicators (minimum of two required)
	Water (A1)	۵)			Stained Lea	` ,			face Soil Cracks (B6)
	ater Table (A	(2)			Fauna (B1				inage Patterns (B10)
Saturation	, ,				uatic Plant				-Season Water Table (C2)
	larks (B1) nt Deposits ((D2)		Hydroge		neres on Livi	na Booto	,	yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
	ni Deposits (posits (B3)	(DZ)				ced Iron (C4	-		nted or Stressed Plants (D1)
1	at or Crust (E	34)		·		ction in Tilled	,		omorphic Position (D2)
	osits (B5)	3-1)		Thin Mu			2 00110 (00		C-Neutral Test (D5)
l — ·	on Visible o	n Aerial II	magery (B7)			. ,			3 1 1 3 3 1 3 3 1 3 3 1 3 1 3 1 3 1 3 1
	v Vegetated			_	xplain in F				
Field Obser			`	, \	•	,			
Surface Wate	er Present?	Ye	es N	lo Depth ((inches): _		_		
Water Table	Present?	Ye	es N	lo Depth ((inches): _				
Saturation P				lo Depth (and Hydrolog	y Present? Yes No✓
(includes car	pillary fringe)							
				nitoring well, aeria . Signature noted					t not as consistent as other signatures.
Remarks:									
				d, no saturation. It and assumed to					st. Water level in waterway approx 8-9

	Project/Site: 20241389 Kane Co 107.87-Ac Property	City/County: Kane County Sampling Date: 2024-11-06
Local relief (concave, convex, none): Concave Conc	Applicant/Owner: Surya Powered	State: Illinois Sampling Point: P9
Stope (%): 0-2	Investigator(s): Eric C Parker, SPWS	_ Section, Township, Range: sec 18 T042N R007E
New London Continuous Control on the sate typical for this time of year? Yes	Landform (hillslope, terrace, etc.): Toeslope	Local relief (concave, convex, none): Concave
New London Continuous Control on the sate typical for this time of year? Yes	Slope (%): <u>0-2</u> Lat: <u>42.105961</u>	Long: -88.458840 Datum: WGS84
Are Vegetation		
Are Vegetation	Are climatic / hydrologic conditions on the site typical for this time of ye	year? Yes No ✓ (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologynaturally 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?		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland? Yes No Wetland? Yes No Wetland? Yes No No Wetland? Yes No No Wetland? Yes No No Wetland? Yes No	Are Vegetation, Soil, or Hydrology naturally pro	oroblematic? (If needed, explain any answers in Remarks.)
Hydric Soil Present?		
Hydric Soil Present?	Lhydrophytia Vagatatian Procent?	
Wetland Hydrology Present? Yes/_ No		is the dampied Area
Remarks: APT analysis indicates climatic conditions are in the drier than normal range. Ag field planted in soybeans, now harvested; not NC. /*EGETATION – Use scientific names of plants. Tree Stratum (Plot size:30' radius) Absolute% Cover_Species?*_Status		Within a Welland? Tes y No
/EGETATION – Use scientific names of plants. Tree Stratum (Plot size:30' radius) Absolute % Cover Species? Status	Remarks:	
Absolute	APT analysis indicates climatic conditions are in the drier than normal	al range. Ag field planted in soybeans, now harvested; not NC.
Tree Stratum (Plot size: 30' radius) % Cover Species? Status That Are OBL, FACW, or FAC: 0 (A) 1. Total Number of Dominant Species That Are OBL, FACW, or FAC: 0 (B) 3. Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Sapling/Shrub Stratum (Plot size: 15' radius) Total Cover 1. O = Total Cover 2. Multiply by: OBL species 0 x1 = 0 3. FACW species 0 x2 = 0 4. FACW species 0 x3 = 0 FACU species 0 x4 = 0 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 0 (A) 0.00 (B) 1. Prevalence Index = B/A =	VEGETATION – Use scientific names of plants.	
1	Absolute	
3.		- Number of Dominant Species
4		Total Number of Dominant
Sapling/Shrub Stratum (Plot size:15' radius) 1.	4	Percent of Dominant Species
Prevalence Index worksheet: Total % Cover of:		(**-)
2.	Sapling/Shrub Stratum (Plot size: 15' radius)	Prevalence Index worksheet:
3.	1	
4	2	
5. O = Total Cover FACU species O x 4 = O UPL species O x 5 = O Column Totals: O (A) 0.00 (B) Prevalence Index = B/A =		
Herb Stratum (Plot size: 5' radius)		
Herb Stratum (Plot size: 5' radius) 1. Column Totals: 0 (A) 0.00 (B) 2. Prevalence Index = B/A =		
1		
2. Prevalence Index = B/A =	,	Column Fotals. (A) (B)
3. Hydrophytic Vegetation Indicators: 4. 1 - Rapid Test for Hydrophytic Vegetation 5. 2 - Dominance Test is >50% 6. 3 - Prevalence Index is ≤3.0¹ 7. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 9. ✓ 10. Problematic Hydrophytic Vegetation¹ (Explain)		Prevalence Index = B/A =
4. 1 - Rapid Test for Hydrophytic Vegetation 5. 2 - Dominance Test is >50% 6. 3 - Prevalence Index is ≤3.0¹ 7. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 9. ✓ 10. Problematic Hydrophytic Vegetation¹ (Explain)		Hydrophytic Vegetation Indicators:
5		1 Panid Toot for Hydrophytic Vagatation
6		O D : T :: 500/
8 data in Remarks or on a separate sheet) 9 Problematic Hydrophytic Vegetation¹ (Explain) 10		0 0 1 1 1 2 20 01
9. Problematic Hydrophytic Vegetation ¹ (Explain)	7	
10	8	
	9	Problematic Hydrophytic Vegetation* (Explain)
1 Indicators of hydric soil and wetland hydrology must	-	1 Indicators of hydric call and watland hydrology must
Woody Vine Stratum (Plot size: 30' radius) = Total Cover be present, unless disturbed or problematic.	Woody Vine Stratum (Plot size: 30' radius)	
1 Hydrophytic		Hydrophytic
2 Vegetation Present? Yes \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2	
= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)	Remarks: (Include photo numbers here or on a separate sheet.)	
Ag field planted in soybeans in 2024 now harvested and chisel plowed. Not NC. Weeds not present; some soybean germination from seed spillage. Adjacent field edge 80' to west dominated by Bromus inermis, Ambrosia trifida and Urtica dioica. Assumed hydrophytic vegetation would dominate under NC given the OSA, landscape position, the other parameters, and professional judgment.	Adjacent field edge 80' to west dominated by Bromus inermis, Ambro	osia trifida and Urtica dioica. Assumed hydrophytic vegetation would dominate

US Army Corps of Engineers Midwest Region – Version 2.0

Profile Des	cription: (E	Describe	to the dept	th needed	to docui	ment the i	ndicator	or confir	m the absence o	f indicators.)
Depth		Matrix			Redo	x Features	3			
(inches)	Color (ı	moist)	<u></u> %	Color (ı	moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16		3/1	93_	10YR	3/3	7	C	M_	SIL _	
16-24	10YR	5/2	85	10YR	5/4	15	C	M	SIC	
-										
-	-								- -	
						- ——				
			· ——							-
l 						- ——				
¹Type: C=C			letion, RM=	Reduced I	Matrix, M	S=Masked	Sand Gra	ains.		tion: PL=Pore Lining, M=Matrix.
Hydric Soil										or Problematic Hydric Soils ³ :
Histoso	` ,)\		_		Gleyed Ma			Coast P	rairie Redox (A16)
	pipedon (A2 listic (A3)	-)			•	Redox (S5 d Matrix (S			— Dark Su	rface (S7)
_	en Sulfide (A	\ 4)				Mucky Mir			Iron-Mar	nganese Masses (F12)
	d Layers (A			_	-	Gleyed Ma			Very Sha	allow Dark Surface (TF12)
_	uck (A10)				-	d Matrix (I			Other (E	Explain in Remarks)
	ed Below Da		e (A11)		='	Dark Surfa			3Indiantors	of budraphytic vagatation and
I	ark Surface Mucky Miner	,				d Dark Su Depressio				of hydrophytic vegetation and hydrology must be present,
	ucky Peat o		3)	-	_ rtodox i	5 op: 000i0i	10 (1 0)			listurbed or problematic.
Restrictive										
Type:										
Depth (in	nches):								Hydric Soil P	resent? Yes <u>/</u> No
Remarks:										
HYDROLC	OGY									
Wetland Hy	drology Inc	dicators:								
Primary Indi	cators (mini	mum of o	ne is requir	ed; check	all that ap	ply)			Secondary	y Indicators (minimum of two required)
Surface	Water (A1)					ined Leave	` ,			ce Soil Cracks (B6)
	ater Table (A	42)				auna (B13)				age Patterns (B10)
Saturati						atic Plants	. ,			eason Water Table (C2)
	Marks (B1)	(5.0)				Sulfide Od			,	ish Burrows (C8)
	ent Deposits	(B2)				Rhizosphe		-	· · —	ation Visible on Aerial Imagery (C9)
I	posits (B3) at or Crust (B4)				of Reduce on Reduction	,	,		ed or Stressed Plants (D1) norphic Position (D2)
-	posits (B5)	D4)				Surface (u 00113 (0	· —	Neutral Test (D5)
I —	ion Visible o	n Aerial I	magery (B7			Well Data	,			
	ly Vegetated		• • •	· —	-	olain in Re	` '			
Field Obser	rvations:									
Surface Wa	ter Present?	Y	es N	No <u>√</u>	Depth (in	ches):				
Water Table	Present?	Υ	es N	No <u>√</u>	Depth (in	ches):				
Saturation F	Present?	Υ	es N	No <u>√</u>	Depth (in	ches):		Wet	land Hydrology	Present? Yes <u>√</u> No
	pillary fringe		gauga ma	nitoring we	all poriol	nhotos pr	ovious inc	nootions)	, if available:	
GE and NAIF				-	en, aeriai į	priotos, pre	evious iris	pections)	, ii avaliable.	
	- dona imag		· completed							
Remarks: Tile network	present hut	assume	d to be suffi	ciently dve	functions	ıl at P9				
	r. 555111, 541	. 300011101		o.o.i.ay aye						

Project/Site: 20241389 Kane Co 107.87-Ac Property	(City/County: Kane County Sampling Date: 2							ate: 2024-1	1-06
Applicant/Owner: Surya Powered					State: Illi	inois	Samp	ling Poi	nt: <u>P10</u>	
Investigator(s): Eric C Parker, SPWS		Sectio	n, Tow	nship, Rar	nge: <u>sec 19 T</u>	042N R	007E			
Landform (hillslope, terrace, etc.): Swale			L	ocal relief ((concave, con	vex, nor	ıe): <u>Con</u>	cave		
Slope (%): <u>0-2</u> Lat: <u>42.105681</u>	L	_ong:	-88.45	8116			Datı	ım: <u>WG</u>	S84	
Soil Map Unit Name: <u>Drummer silty clay loam</u> , 0 to 2 percent s	slopes				N	IWI class	sification	: None	Depicted	
Are climatic / hydrologic conditions on the site typical for this ti	me of yea	ar? Yo	es	No	√ (If no, e	explain i	n Remar	ks.)		
Are Vegetation, Soil, or Hydrology sign									s N	√_ vo
Are Vegetation, Soil, or Hydrology nati					eded, explain					
SUMMARY OF FINDINGS – Attach site map sh	nowing	sam	pling	g point lo	ocations, t	ranse	cts, im	porta	nt feature	es, etc.
Hydrophytic Vegetation Present? Yes No _										
Hydric Soil Present? Yes No_				Sampled		Vaa	1	N.		
Wetland Hydrology Present? Yes No _			withii	n a Wetlan	ıa ?	res_		NO		
Remarks: APT analysis indicates climatic conditions are in the drier that	n normal i	range	Δα fic	ald planted	in sovbeans	now har	vested:	not NC		
A Fanalysis indicates diffiate conditions are in the differ that	ii iioiiiiai i	ange	. Ay iic	na piaritea	iii soybeans,	now nai	vesteu, i	1101 110.		
VEGETATION – Use scientific names of plants.										
To o Otestano (Districtor 201 rodino)	Absolute				Dominance	Test w	orkshee	t:		
,	% Cover				Number of Description				0	(A)
1										_ (^)
3.					Total Number Species Acr				0	(B)
4								_		- ()
5					Percent of D That Are OB					(A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)	0	= Tota	al Cove	er	Prevalence	Index v	vorkshe	et.		
1					Total %				fultiply by:	
2.					OBL species				0	
3					FACW spec	ies	0	x 2 =	0	
4					FAC species					
5	_				FACU speci					_
Herb Stratum (Plot size: 5' radius)	0:	= Tota	al Cove	er	UPL species			_ x5=		(D)
1					Column Tota	ais:		_ (A)	0.00	(B)
2					Preval	lence Ind	dex = B/	/A =		_
3					Hydrophyt	•				
4					l — ·		•		egetation/	
5					I —		Test is >			
6					3 - Prev				(Danida au	
7					4 - Morı data				(Provide su) arate sheet	
8					Problei	matic Hy	drophyti	c Veget	tation¹ (Expl	ain)
9				-						
Woody Vine Stratum (Plot size: 30' radius)		= Tota	al Cove	er	¹ Indicators be present,					must
1										
2.					Hydrophyti Vegetation					
					Present?		Yes	N	No <u>√</u>	
Remarks: (Include photo numbers here or on a separate she		= Tota	al Cove	er						
Ag field planted in soybeans in 2024 now harvested and chise	el plowed.				resent; some	soybean	germina	ation fro	m seed spil	lage.

Profile Des	cription: (D	escribe	to the dept	h needed	to docu	ment the	indicator	or confi	firm the a	bsence	of indicators.)	
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks												
(inches)	Color (r		<u></u> %	Color (ı		%	Type'			,	Remarks	
0-15	<u>10YR</u>	3/1	<u>95</u> _	10YR	3/3	5	<u>C</u>	M_		SIL		
15-24	10YR	4/1	93	10YR	4/3	_ 7	C	M	<u></u> S	<u>ICL</u>		
							- ——					
						_						
¹ Type: C=C	oncentration	n, D=Depl	etion, RM=F	Reduced I	Matrix, M	S=Masked	d Sand Gra	ains.			cation: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:								Inc	dicators	for Problematic Hydric Soils ³ :	
Histoso	l (A1)				Sandy	Gleyed Ma	atrix (S4)			Coast	Prairie Redox (A16)	
	pipedon (A2)		_	_ Sandy I	Redox (S5	5)		_	- Dark S	Surface (S7)	
_	istic (A3)			_		d Matrix (Manganese Masses (F12)	
	en Sulfide (A			_		Mucky Mi					Shallow Dark Surface (TF12)	
	d Layers (Af uck (A10)))		_	-	Gleyed Maded Matrix ((Explain in Remarks)	
_	d Below Dar	k Surface	e (A11)	$\overline{\checkmark}$	-	Dark Surfa	,			_ 00.	(Explain in Formatio)	
	ark Surface		()		_		urface (F7)		³ lr	ndicators	s of hydrophytic vegetation and	
Sandy N	Mucky Miner	al (S1)		_	Redox	Depressio	ns (F8)				d hydrology must be present,	
	ucky Peat or		5)							unless	s disturbed or problematic.	
Restrictive	Layer (if ob	served):										
Type:												
Depth (in	nches):								Hyd	dric Soil	Present? Yes No	
Remarks:												
HYDROLO)GY											
Wetland Hy	drology Ind	licators:										
Primary Indi	cators (minir	num of o	ne is require	ed; check	all that ap	oply)				Seconda	ary Indicators (minimum of two required)	
Surface	Water (A1)			\	Vater-Sta	ained Leav	es (B9)			Sur	face Soil Cracks (B6)	
✓ High Wa	ater Table (A	\ 2)		/	Aquatic Fa	auna (B13	5)			Dra	inage Patterns (B10)	
✓ Saturati	on (A3)			7	True Aqua	atic Plants	(B14)			Dry	-Season Water Table (C2)	
Water N	/larks (B1)			H	Hydrogen	Sulfide O	dor (C1)		•	Cra	yfish Burrows (C8)	
Sedime	nt Deposits	(B2)		(Oxidized I	Rhizosphe	res on Livi	ing Root	ots (C3)	✓ Sat	uration Visible on Aerial Imagery (C9)	
Drift De	posits (B3)			F	resence	of Reduce	ed Iron (C4	!)			nted or Stressed Plants (D1)	
Algal M	at or Crust (I	B4)		F	Recent Iro	on Reducti	ion in Tilled	d Soils (omorphic Position (D2)	
Iron De					Thin Muck	Surface	(C7)			FAC	C-Neutral Test (D5)	
	ion Visible o				Gauge or	Well Data	(D9)					
	y Vegetated	Concave	Surface (B	8) (Other (Ex	plain in Re	emarks)					
Field Obser	rvations:											
Surface Wat	ter Present?		es N					_				
Water Table	Present?		es <u> / </u>					_				
	pillary fringe)	es <u>√</u> N								y Present? Yes No	
Describe Re GE and NAIF				_	ell, aerial	photos, pr	revious ins	pections	s), if avail	lable:		
Remarks:												
Tile network	present, but	appearin	g to be dyst	functional	at P10. A	Assumed [D2 based o	n hydro	ology indi	cators o	bserved.	

Project/Site: 20241389 Kane Co 107.87-Ac Property	c	City/County	: Kane Cou	County Sampling Date: 2024-11-06				
Applicant/Owner: Surya Powered				State: Illinois Sampling Point: P11				
Investigator(s): Eric C Parker, SPWS		Section, To	wnship, Rai	nge: <u>sec 19 T042N R007E</u>				
Landform (hillslope, terrace, etc.): Rise			Local relief	(concave, convex, none): Convex				
Slope (%): 0-2 Lat: 42.105399	L	ong: <u>-88.4</u>	57973	Datum: WGS84				
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slo	opes			NWI classification: None Depicted				
Are climatic / hydrologic conditions on the site typical for this tim	e of yea	r? Yes	No	√ (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology signif								
Are Vegetation, Soil, or Hydrology natur				eded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map sho	wing	samplin	g point le	ocations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No	1							
Hydric Soil Present? Yes No	<u> </u>		e Sampled in a Wetlar					
Wetland Hydrology Present? Yes No		With	ili a vvetiai	NO				
Remarks: APT analysis indicates climatic conditions are in the drier than i	normal r	ange. Outs	side ag field	in area not cropped for many years, considered NC.				
VEGETATION – Use scientific names of plants.								
		Dominant Species?		Dominance Test worksheet:				
1. Acer negundo	7	<u>Y</u>		Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)				
2. Morus alba	5	<u> Y</u>	FAC					
3				Total Number of Dominant Species Across All Strata: 4 (B)				
4				Percent of Dominant Species				
5	40.0			That Are OBL, FACW, or FAC: 50.00 (A/B)				
Sapling/Shrub Stratum (Plot size: 15' radius)	12.0 =	= Total Cov	/er	Prevalence Index worksheet:				
1				Total % Cover of: Multiply by:				
2				OBL species 0 x 1 = 0				
3				FACW species $0 \times 2 = 0$				
4				FAC species 12 x 3 = 36				
5				FACU species 100 x 4 = 400 UPL species 0 x 5 = 0				
Herb Stratum (Plot size: 5' radius)	=	= Total Cov	/er	Column Totals: 112 (A) 436.00 (B)				
1. Bromus inermis	80	Y	<u>FACU</u>					
2. <u>Cirsium arvense</u>	20	<u> Y </u>	<u>FACU</u>	Prevalence Index = B/A = 3.89				
3				Hydrophytic Vegetation Indicators:				
4				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%				
5				3 - Prevalence Index is ≤3.0 ¹				
6				4 - Morphological Adaptations¹ (Provide supporting				
8				data in Remarks or on a separate sheet)				
9.				Problematic Hydrophytic Vegetation ¹ (Explain)				
10								
Woody Vine Stratum (Plot size: 30' radius)		= Total Cov		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
1				Hydrophytic				
2				Vegetation Present? Yes No✓_				
_		= Total Cov	/er					
Remarks: (Include photo numbers here or on a separate shee	•							
Outside agricultural field in area between field and drainage dite	un.							

Profile Des	cription: (D	Describe	to the dep	th needed	l to docu	ment the i	indicator	or confi	rm the absence	ce of indicators.)
Depth		Matrix				x Feature		. 2		
(inches)	Color (ı		<u></u> %	Color (moist)	%	Type'	Loc ²	Texture	Remarks
0-14	_10YR	4/1	_100_			_			_ <u>SIL</u>	No redox
14-24	_10YR	5/3	50	_10YR	5/6	10	C	M	SICL	Mixed matrix
	10YR	4/1	40						SICL	
									_	
									_	<u> </u>
									_	
¹ Type: C=C			etion, RM=	=Reduced	Matrix, M	S=Masked	d Sand Gra	ains.		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:								Indicato	rs for Problematic Hydric Soils ³ :
Histosol	` '					Gleyed Ma			Coas	st Prairie Redox (A16)
	pipedon (A2	!)			•	Redox (S5	•		— Dark	Surface (S7)
Black Histic (A3) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Iron-Mangan										Manganese Masses (F12)
	d Layers (A				Very	Shallow Dark Surface (TF12)				
	uck (A10)	-,			Othe	er (Explain in Remarks)				
	d Below Dai	rk Surface	e (A11)			ed Matrix (I Dark Surfa	,			
Thick Da	ark Surface	(A12)			_ Deplete	ed Dark Su	ırface (F7)		³ Indicato	ors of hydrophytic vegetation and
	Mucky Miner				Redox	Depressio	ns (F8)			and hydrology must be present,
I	ucky Peat or	,	•						unles	ss disturbed or problematic.
Restrictive	• `	•								
Type:										"" (O)
Depth (in Remarks:	iches):								Hydric Sc	oil Present? Yes No/_
HYDROLO	GY									
Wetland Hy	drology Inc	licators:								
Primary Indi			ne is requii	red; check	all that ap	oply)			Secon	dary Indicators (minimum of two required)
Surface	Water (A1)			\	Nater-Sta	ined Leav	es (B9)		Sı	urface Soil Cracks (B6)
High Wa	ater Table (A	A2)			Aquatic Fa	auna (B13)		Dı	rainage Patterns (B10)
Saturati	on (A3)			1	True Aqua	atic Plants	(B14)		Dı	ry-Season Water Table (C2)
Water M	Marks (B1)			H	Hydrogen	Sulfide O	dor (C1)		Cı	rayfish Burrows (C8)
Sedime	nt Deposits	(B2)		(Oxidized I	Rhizosphe	res on Livi	ng Roots	s (C3) <u>√</u> Sa	aturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)			F	Presence	of Reduce	ed Iron (C4	.)	St	tunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		F	Recent Iro	n Reducti	on in Tilled	d Soils (C	C6) G	eomorphic Position (D2)
Iron Dep	posits (B5)			7	Thin Mucl	s Surface ((C7)		F/	AC-Neutral Test (D5)
Inundati	ion Visible o	n Aerial I	magery (B	7) (Gauge or	Well Data	(D9)			
	y Vegetated	Concave	Surface (I	B8) (Other (Ex	plain in Re	emarks)			
Field Obser	vations:									
Surface Wat	ter Present?		es			,				
Water Table	Present?		es l							
Saturation P (includes ca	pillary fringe	e)	es							ogy Present? Yes No/_
GE and NAIF			gauge, mo	onitoring we	eli, aeriai	pnotos, pr	evious ins	pections), if available:	
Remarks:										
No field wetla below P11 el		gy indicat	ors observ	ed, no satı	uration. D	itch waterv	way approx	ximately	20ft to west. V	Vater level in waterway approx 8-9 feet

Project/Site: 20241389 Kane Co 107.87-Ac Property	ounty: Kane County Sampling Date: 2024-11-06					
Applicant/Owner: Surya Powered					State: Illinois Sampling Point: P12	
Investigator(s): Eric C Parker, SPWS		Section,	, Towr	nship, Rai	nge: sec 19 T042N R007E	
Landform (hillslope, terrace, etc.): Swale			Lo	cal relief	(concave, convex, none): Concave	
Slope (%): 3-7 Lat: 42.105462		Long: <u>-8</u>	88.457	7597	Datum: WGS84	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percer	nt slopes				NWI classification: None Depicted	
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Yes	3	No	✓ (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologys						
Are Vegetation, Soil, or Hydrology n					eeded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	samp	oling	point le	ocations, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes N	o ✓		- 41	O	14	
Hydric Soil Present? Yes N	o <u> </u>			Sampled a Wetlar		
Wetland Hydrology Present? Yes N	0_✓_	•	WILLIIII	a vvetiai	id: 165 NO	
Remarks: APT analysis indicates climatic conditions are in the drier the drier than the drier t		range. A	Ag fiel	d planted	in soybeans, now harvested; not NC.	
VEGETATION – Use scientific names of plants.						
Tree Stratum (Plot size: 30' radius) 1.	Absolute % Cover	Specie	es?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)	
3.	<u> </u>				Total Number of Dominant Species Across All Strata: (B)	
4. 5.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)	
Sapling/Shrub Stratum (Plot size: 15' radius)		= Total	Cove	٢	Prevalence Index worksheet:	
1					Total % Cover of: Multiply by:	
2					OBL species x 1 = 0	
3					FACW species	
4					FAC species 0 x 3 = 0	
5					FACU species6 x 4 =24 UPL species0 x 5 =0	
Herb Stratum (Plot size: 5' radius)		= Total	Cove	r	UPL species 0 $x = 0$ Column Totals: 6 A 24.00 B	
1. VERONICA ARVENSIS	3	Y		FACU_	Column Totals. (A) 27.00 (B)	
2. Taraxacum officinale	3	Y		FACU_	Prevalence Index = B/A = 4.0	
3					Hydrophytic Vegetation Indicators:	
4					1 - Rapid Test for Hydrophytic Vegetation	
5					2 - Dominance Test is >50%	
6					3 - Prevalence Index is ≤3.0¹	
7					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
8					Problematic Hydrophytic Vegetation ¹ (Explain)	
9					()	
Woody Vine Stratum (Plot size: 30' radius)		= Total	Cove	r	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1					Hydrophytic	
2	<u> </u>				Vegetation	
	0	= Total	Cove	r	Present? Yes No	
Remarks: (Include photo numbers here or on a separate s	sheet.)					
Ag field planted in soybeans in 2024 now harvested and chapillage. Adjacent field edge 75 feet to west dominated by						

Profile Des	cription: (E	Describe	to the dep	th needed	to docu	ment the	indicator	or confir	m the absen	ce of indicators.)
Depth		Matrix				x Feature			_	
(inches)	Color (ı	moist)	%	Color (ı	moist)	%	Type'	Loc ²	<u>Texture</u>	Remarks
0-16	_10YR	3/1	<u> 100</u>			_			SIL_	No redox.
16-24	10YR	4/2	95	_10YR	4/4	5	C	M	SCL	
	-					_	-			
									-	<u> </u>
						_			-	
¹ Type: C=C			etion, RM:	=Reduced I	Matrix, M	S=Masked	d Sand Gra	ins.		Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:								Indicato	ors for Problematic Hydric Soils ³ :
Histosol	` '				Sandy	Gleyed Ma	atrix (S4)		Coa	ast Prairie Redox (A16)
	pipedon (A2	2)			-	Redox (S5	,		— Dar	k Surface (S7)
	istic (A3) en Sulfide (<i>A</i>	(4)		_		d Matrix (\$ Mucky Mir			Iron	n-Manganese Masses (F12)
	d Layers (A	,		_	-	Gleyed M				y Shallow Dark Surface (TF12)
	uck (A10)	3)			-	ed Matrix (er (Explain in Remarks)
	d Below Da	rk Surface	e (A11)			Dark Surfa				,
	ark Surface		` ,	_	_		ırface (F7)		³ Indicat	ors of hydrophytic vegetation and
	Aucky Miner	. ,			Redox	Depressio	ns (F8)			and hydrology must be present,
	ucky Peat or		3)						unle	ess disturbed or problematic.
Restrictive	Layer (if ob	served):								
Type:									l	
Depth (in Remarks:	ches):								Hydric S	oil Present? Yes No/_
HYDROLO	ocv.									
		lia -4								
Wetland Hy			مم ام حمصانا	radi abaali	all that ar	(درامه			Cooo	nden Indicators (minimum of two required)
Primary India		mum or o	ne is requi				(DO)			ndary Indicators (minimum of two required)
_	Water (A1)	121				ined Leav	` ,			Surface Soil Cracks (B6)
Saturati	ater Table (A	1 2)				auna (B13 atic Plants				Orainage Patterns (B10) Ory-Season Water Table (C2)
	farks (B1)			· 	•	Sulfide O	, ,		· · · · · · · · · · · · · · · · · · ·	Crayfish Burrows (C8)
	nt Deposits	(B2)					eres on Livi	na Roots		Saturation Visible on Aerial Imagery (C9)
	posits (B3)	(52)					ed Iron (C4	-		Stunted or Stressed Plants (D1)
1	at or Crust (B4)					on in Tilled			Geomorphic Position (D2)
	oosits (B5)	,				Surface				FAC-Neutral Test (D5)
l —	on Visible o	n Aerial II	magery (B	7) (Sauge or	Well Data	(D9)			, ,
Sparsely	y Vegetated	Concave	Surface (B8) (Other (Ex	plain in Re	emarks)			
Field Obser	vations:									
Surface Wat	er Present?	Ye	es	No <u>√</u>	Depth (in	ches):		_		
Water Table	Present?	Ye	es	No <u>√</u>	Depth (in	ches):		_		
Saturation P (includes ca	pillary fringe	e)		No						ogy Present? Yes No/_
				-					, if available: termination, l	but not as consistent as other signatures.
Remarks:										
No field wetla feet below fie							way off-site	and adj	acent to the v	west. Water level in waterway approx 8-9

Project/Site: 20241389 Kane Co 107.87-Ac Property	ity: Kane Cou	nty	Samplin	g Date: 2024-1	1-06		
Applicant/Owner: Surya Powered				State: Illinois	Sampling	Point: P13	
Investigator(s): Eric C Parker, SPWS	;	Section, T	Γownship, Raι	nge: <u>sec 19 T042N R0</u>)07E		
Landform (hillslope, terrace, etc.): Rise			Local relief	(concave, convex, non-	e): Convex		
Slope (%): 3-7 Lat: 42.102850							
Soil Map Unit Name: Somonauk silt loam, 2 to 5 percent slop		-					
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation, soil, or Hydrology sig	-						lo 🗸
Are Vegetation, Soil, or Hydrology na				eded, explain any ansv			
SUMMARY OF FINDINGS – Attach site map s							s, etc.
Hydrophytic Vegetation Present? Yes No				_			
Hydric Soil Present? Yes No			the Sampled thin a Wetlar		No.	. /	
Wetland Hydrology Present? Yes No		Wil	uiiii a vveuai	iu! Tes	NO		
Remarks: APT analysis indicates climatic conditions are in the drier that	an normal	range. Ag	g field planted	in soybeans, now har	vested; not f	NC.	
VEGETATION – Use scientific names of plants.							
001 1			nt Indicator	Dominance Test wo	orksheet:		
Tree Stratum (Plot size: 30' radius) 1			? Status	Number of Dominant That Are OBL, FACV		0	(A)
3				Total Number of Don Species Across All S		0	(B)
4. 5.				Percent of Dominant That Are OBL, FACV		0.00	(A/B)
	_	= Total C	over	Prevalence Index w			
Sapling/Shrub Stratum (Plot size: 15' radius) 1				Total % Cover o		Multiply by:	
2.				OBL species			
3.				FACW species			
4.				FAC species			_
5			_	FACU species	<u>2</u> x	4 =8	_
5	0	= Total C	over	UPL species	<u>0</u> x	5 = 0	_
Herb Stratum (Plot size: 5' radius)	4	N.	EACH	Column Totals:	(A	(a) <u>8.00</u>	(B)
VERONICA ARVENSIS Taraxacum officinale		N	_ <u>FACU</u> FACU	Prevalence Ind	lex = B/A =	4.0	
3				Hydrophytic Veget			
4.				1 - Rapid Test fo			
5				2 - Dominance T	est is >50%	,)	
6.				3 - Prevalence Ir	ndex is ≤3.0	1	
7				4 - Morphologica	al Adaptation	ns¹ (Provide sup	porting
8						separate sheet)	
9				Problematic Hye	aropnytic Ve	egetation (Expla	ain)
10				¹ Indicators of hydric	soil and wo	tland hydrology	muet
Woody Vine Stratum (Plot size: 30' radius)		= Total C		be present, unless d			
1				Hydrophytic			
2				Vegetation Present?	Yes	No <u>√</u>	
		= Total C	over			· - <u>- · · · · · · · · · · · · · · · · ·</u>	
Remarks: (Include photo numbers here or on a separate sh	•						
Ag field planted in soybeans in 2024 now harvested and chis spillage. Adjacent field edge 25 feet to south dominated by E					ean germina	ation from seed	

Profile Des	cription: (Des	scribe t	o the depth	n needed to	o docun	nent the	indicator	or confir	m the absenc	e of indicators.)	
Depth		latrix				K Feature					
(inches)	Color (mo		<u></u> %	Color (mo	oist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	_10YR	<u>4/3 </u>	_100						L	No redox	_
12-24	_10YR	5/4	80						SIL	Mixed matrix	_
	10YR	4/2	20						SIL		
											_
								-	-		_
									-	-	_
											_
										<u> </u>	_
	oncentration, I	D=Deple	etion, RM=F	Reduced Ma	atrix, MS	S=Maske	d Sand Gra	ains.		ocation: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:								Indicator	s for Problematic Hydric Soils ³ :	
Histosol	` '						atrix (S4)		Coas	t Prairie Redox (A16)	
	pipedon (A2)				-	ledox (S	,		— Dark	Surface (S7)	
_	listic (A3) en Sulfide (A4)					Matrix (S6) ineral (F1)		Iron-I	Manganese Masses (F12)	
	d Layers (A5))			-	-	latrix (F2)			Shallow Dark Surface (TF12)	
	uck (A10)				-	d Matrix			-	r (Explain in Remarks)	
_	d Below Dark	Surface	(A11)		•		ace (F6)			(
	ark Surface (A		(* * * * *)				urface (F7))	³ Indicato	rs of hydrophytic vegetation and	
Sandy N	Mucky Mineral	(S1)			•	epressio				nd hydrology must be present,	
I —	ucky Peat or P)						unles	s disturbed or problematic.	
Restrictive	Layer (if obse	erved):									
Type:											
Depth (in	nches):								Hydric So	il Present? Yes No <u>√</u>	_
Remarks:									•		
HYDROLO	GY										
Wetland Hy	drology Indic	ators:									
	cators (minimu		e is require	ed; check all	I that ap	ply)			Second	dary Indicators (minimum of two require	d)
Surface	Water (A1)			Wa	ater-Stai	ned Leav	ves (B9)		Su	rface Soil Cracks (B6)	_
l —	ater Table (A2)				una (B13	, ,		_	ainage Patterns (B10)	
Saturati		,				tic Plants				y-Season Water Table (C2)	
Water N	, ,			·			dor (C1)			ayfish Burrows (C8)	
	nt Deposits (B	2)		-	-		eres on Liv	ing Roots		turation Visible on Aerial Imagery (C9)	
Drift De		,					ed Iron (C4	-		unted or Stressed Plants (D1)	
	at or Crust (B4	!)		·			ion in Tille	,		eomorphic Position (D2)	
Iron De	`	,				Surface		•		.C-Neutral Test (D5)	
l —	ion Visible on A	Aerial In	nagery (B7)			Vell Data				, ,	
	v Vegetated C		• • • •		-	lain in R					
Field Obser	vations:			<u>, —</u>							
Surface Wat	ter Present?	Ye	s N	o_ <u>√</u> _ De	epth (ind	ches):					
Water Table	Present?			o <u>√</u> De		,					
Saturation P				o <u>√</u> De					land Hydrolo	gy Present? Yes No✓	
	pillary fringe)		· ··	<u> </u>	optii (iiit			_		gy : 1000m: 100 <u> </u>	
	corded Data (
GE and NAIF	Paerial imager	y; OSA	completed.	Signature	noted ar	nd prelim	(offsite) w	etland de	termination, bu	at determined not to be due to wetness.	
Remarks:											
					ition. Dit	ch water	way off-site	e and adja	acent to the so	uth. Water level in waterway approx 8-9	9
teet below fie	eld elevation. 1	ile netw	ork presen	τ, no D2.							

Project/Site: 20241389 Kane Co 107.87-Ac Property		City/Co	ounty:	Kane Cou	ty Sampling Date: <u>2024-11-06</u>			
Applicant/Owner: Surya Powered					State: Illinois Sampling Point: P14			
Investigator(s): Eric C Parker, SPWS		Section	n, Tov	vnship, Rar	nge: sec 19 T042N R007E			
Landform (hillslope, terrace, etc.): Rise			L	ocal relief	(concave, convex, none): Convex			
Slope (%): 3-7 Lat: 42.106016								
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percei		-						
Are climatic / hydrologic conditions on the site typical for this					· · · · · · · · · · · · · · · · · · ·			
Are Vegetation, Soil, or Hydrologys								
Are Vegetation, Soil, or Hydrology r					eded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map								
Hydrophytic Vegetation Present? Yes N	lo 🗸							
Hydric Soil Present? Yes N				e Sampled n a Wetlar				
Wetland Hydrology Present? Yes N	lo <u>√</u>		withii	ii a vveliai	iu! TesNo			
Remarks:								
APT analysis indicates climatic conditions are in the drier t	han normal	range.	Ag tie	eld planted	in soybeans, now harvested; not NC.			
VEGETATION – Use scientific names of plants	•							
201 11	Absolute			Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30' radius) 1	% Cover				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)			
2					Total Number of Dominant			
3					Species Across All Strata:1 (B)			
4	_				Percent of Dominant Species			
5					That Are OBL, FACW, or FAC: 0.00 (A/B)			
Sapling/Shrub Stratum (Plot size: 15' radius)		= Tota	II Cov	er	Prevalence Index worksheet:			
1	_				Total % Cover of: Multiply by:			
2	_				OBL species 0 x 1 = 0			
3	_				FACW species 0 x 2 = 0			
4					FAC species $0 \times 3 = 0$			
5					FACU species x 4 = 40			
Herb Stratum (Plot size: 5' radius)	0	= Tota	I Cov	er	UPL species $0 \times 5 = 0$			
1. <u>Cirsium arvense</u>	10	Υ	,	FACU	Column Totals:10 (A)40.00 (B)			
2					Prevalence Index = B/A = 4.0			
3.					Hydrophytic Vegetation Indicators:			
4					1 - Rapid Test for Hydrophytic Vegetation			
5					2 - Dominance Test is >50%			
6					3 - Prevalence Index is ≤3.0 ¹			
7					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
8					Problematic Hydrophytic Vegetation ¹ (Explain)			
9					Froblematic Hydrophytic vegetation (Explain)			
10.					¹ Indicators of hydric soil and wetland hydrology must			
Woody Vine Stratum (Plot size: 30' radius)	10.0	="			be present, unless disturbed or problematic.			
1					Hydrophytic			
2	_				Vegetation Present?			
	0	= Tota	l Cov	er	100			
Remarks: (Include photo numbers here or on a separate	,							
Ag field planted in soybeans in 2024 now harvested and cl Adjacent field edge 8 feet to southeast dominated by Brom								

Profile Des	cription: (D	Describe	to the dep	th needed	l to docu	ment the i	indicator	or confi	rm the abse	nce of indicators.)
Depth		Matrix				x Feature			_	
(inches)	Color (ı	-	<u></u> %	Color (moist)	%	Type'	Loc ²	Texture	e Remarks
0-18	_10YR	4/2	<u> 100</u>						_ <u>L</u>	No redox
18-24	_10YR	5/2	50	_10YR	5/6	20	C	M	_ SCL	Mixed matrix
	10YR	4/2	30						SCL	
			·	-				-		
									_	
							· ——			
										
¹ Type: C=C			letion, RM=	=Reduced	Matrix, M	S=Masked	d Sand Gra	ains.		² Location: PL=Pore Lining, M=Matrix.
Hydric Soil					0	Ola al N4 a	-t-:- (O.1)			tors for Problematic Hydric Soils ³ :
Histoso	ı (A1) pipedon (A2	·\				Gleyed Ma				past Prairie Redox (A16)
	istic (A3)	.)			•	Redox (S5 d Matrix (S	•		— Da	ark Surface (S7)
	en Sulfide (A	\ 4)		_			on-Manganese Masses (F12)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2)										ery Shallow Dark Surface (TF12)
2 cm Muck (A10) Depleted Matrix (F3)										her (Explain in Remarks)
	d Below Dai		e (A11)		_	Dark Surfa	. ,		31,- 41,-	
_	ark Surface Mucky Miner	,			_	Depressio	ırface (F7) ns (F8)			ators of hydrophytic vegetation and tland hydrology must be present,
	ucky Peat or		3)		_ 11000%	D op! ocolo	(1 0)			less disturbed or problematic.
Restrictive										·
Type:										
Depth (in	iches):								Hydric	Soil Present? Yes No <u>√</u>
Remarks:										
HYDROLC	GY									
Wetland Hy	drology Inc	licators:								
Primary Indi	cators (mini	mum of o	ne is requi	red; check	all that ap	oply)			Sec	ondary Indicators (minimum of two required)
Surface	Water (A1)			\	Water-Sta	ined Leav	es (B9)			Surface Soil Cracks (B6)
High Wa	ater Table (A	A 2)		/	Aquatic Fa	auna (B13)			Drainage Patterns (B10)
Saturati	, ,			·		atic Plants	• •			Dry-Season Water Table (C2)
Water N						Sulfide O				Crayfish Burrows (C8)
	nt Deposits	(B2)					res on Livi	-		Saturation Visible on Aerial Imagery (C9)
Drift De		D4)					ed Iron (C4	,		Stunted or Stressed Plants (D1)
Iron De	at or Crust (D4)				s Surface (on in Tilled	J Solis (C		Geomorphic Position (D2) FAC-Neutral Test (D5)
l —	ion Visible o	n Aerial I	magery (R			Well Data				1 AO-Neutral Test (D3)
	y Vegetated		• • •		_	plain in Re				
Field Obser	, ,				(
Surface Wat		Y	es	No ✓	Depth (in	ches):				
Water Table	Present?		es							
Saturation F	resent?		es						etland Hydro	ology Present? Yes No/_
(includes ca		e)								
Describe Re										e: , but determined not to be due to wetness.
	aenai imag	gery, OSA	Complete	u. Signatui	e noteu a	ina preiim	(Olisite) we	eliano de	eterriiriation	, but determined not to be due to wetness.
Remarks:	and budgets	4 ـ المصالح ـ 4	oro obses	ad na ast	rotion Di	itab watara	way off alt-	. ond!	iocont to the	couth Water level in water very array 2.0
feet below fie							vay on-site	anu a0j	jaceni io ine	south. Water level in waterway approx 8-9
				-	•					

Project/Site: 20241389 Kane Co 107.87-Ac Property	C	City/Cou	unty:	Kane Cou	nty Sampling Date: <u>2024-11-06</u>			
Applicant/Owner: Surya Powered				State: Illinois	Sampling F	Point: P15		
Investigator(s): Eric C Parker, SPWS	§	Section	, Tow	nship, Rar	nge: <u>sec 19 T042N R00</u>)7E		
Landform (hillslope, terrace, etc.): Swale			L	ocal relief (concave, convex, none): Concave		
Slope (%): 0-2 Lat: 42.106697	L	_ong: <u>-</u> 8	38.45	2913		_ Datum: V	VGS84	
Soil Map Unit Name: Drummer silty clay loam, 0 to 2 percent slo					NWI classif	ication: Nor	ne Depicted	
Are climatic / hydrologic conditions on the site typical for this tim	ne of yea	ır? Yes	s	No	✓ (If no, explain in	Remarks.)		
Are Vegetation, soil, or Hydrology signif	ficantly d	disturbe	d?	Are "I	Normal Circumstances"	present?	Yes No	o <u>/</u>
Are Vegetation, Soil, or Hydrology natur					eded, explain any answ			
SUMMARY OF FINDINGS - Attach site map sho				point lo	ocations, transect	s, impor	tant feature	s, etc.
Hydrophytic Vegetation Present? Yes No								
Hydric Soil Present? Yes No				Sampled			,	
Wetland Hydrology Present? Yes No		ľ	vithii	n a Wetlan	d? Yes	No_		
Remarks:		<u> </u>						
APT analysis indicates climatic conditions are in the drier than	normal r	ange. A	Ag fie	ld planted	in soybeans, now harve	ested; not N	C.	
VEGETATION – Use scientific names of plants.								
	solute				Dominance Test wor	rksheet:		
Tree Stratum (Plot size: 30' radius) % 1				Status	Number of Dominant That Are OBL, FACW		0	(A)
2					Total Number of Dom Species Across All St		0	(B)
4					Percent of Dominant S That Are OBL, FACW		0.00	(A/B)
—	0_=	= Total	Cove	er				(,,,,
Sapling/Shrub Stratum (Plot size: 15' radius)					Prevalence Index wo		Multiply by	
1					Total % Cover of: OBL species			
2					FACW species			_
4					FAC species			_
5					FACU species			
	0 =	= Total	Cove	er	UPL species			
Herb Stratum (Plot size: 5' radius)		. 010.			Column Totals:			(B)
	_1	N		<u>FACU</u>				
2					Prevalence Inde	•		_
3					Hydrophytic Vegeta 1 - Rapid Test for			
4					2 - Dominance Te		c vegetation	
5					3 - Prevalence Inc			
6					4 - Morphological		s ¹ (Provide sun	norting
8					data in Remar	ks or on a s	eparate sheet)	porting
9.					Problematic Hyd	rophytic Ve	getation¹ (Expla	ain)
10.				-				
	1.0 =	= Total	Cove	er	¹ Indicators of hydric s be present, unless di			must
1					Hydrophytic			
2					Vegetation		,	
	0 =	= Total	Cove	er	Present? Y	es	No <u>√</u>	
Remarks: (Include photo numbers here or on a separate shee		- 101			<u> </u>			
Ag field planted in soybeans in 2024 now harvested and chisel spillage. Adjacent field edge 100 feet to southwest dominated by						an germina	tion from seed	

Profile Des	cription: (D	escribe	to the dep	th needed	l to docu	ment the	indicator	or confi	rm the ab	sence	e of indicators.)
Depth		Matrix				x Feature					
(inches)	Color (r		%	Color (moist)	%	Type'	Loc ²	Text		Remarks
0-18	_10YR	3/1	<u> 100</u>						_ <u>SI</u>	<u>L</u>	No redox
18-24	_10YR	3/1	95	_10YR	3/3	5	C	M	SIC	<u>CL</u>	
	-							-			
									_		
						_					
	oncentration	n, D=Depl	etion, RM=	=Reduced	Matrix, M	S=Masked	d Sand Gra	ains.			cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:								Indic	cators	for Problematic Hydric Soils ³ :
Histosol	` '				Sandy	Gleyed Ma	atrix (S4)			Coast	Prairie Redox (A16)
	pipedon (A2)			•	Redox (S5	,			Dark S	Surface (S7)
_	listic (A3)	.4\		_		d Matrix (Iron-M	langanese Masses (F12)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2)											Shallow Dark Surface (TF12)
	uck (A10)	<i>)</i>			-	ed Matrix (•	(Explain in Remarks)
I —	d Below Dar	k Surface	e (A11)			Dark Surfa	,				,
I	ark Surface		, ,		Deplete	ed Dark Su	urface (F7)		³ Ind	licators	s of hydrophytic vegetation and
	Mucky Miner				Redox	Depressio	ns (F8)				d hydrology must be present,
I —	ucky Peat or	•	,						<u> </u>	unless	s disturbed or problematic.
Restrictive	Layer (if ob	served):									
Type:				 -							
	nches):			·					Hydri	ic Soil	I Present? Yes No✓
Remarks:											
HYDROLO	GY										
Wetland Hy		licators:									
Primary Indi			ne is requi	red: check	all that ar	nnly)			S	econd:	ary Indicators (minimum of two required)
	Water (A1)	nam or o	ne io regai			ined Leav	(BQ)				face Soil Cracks (B6)
l —	ater Table (A	12)				auna (B13	` ,		_		nage Patterns (B10)
Saturati		(L)				atic Plants					-Season Water Table (C2)
Water N	, ,					Sulfide O				-	ayfish Burrows (C8)
	nt Deposits ((B2)					eres on Livi	ina Roots			uration Visible on Aerial Imagery (C9)
Drift De		,					ed Iron (C4	-			nted or Stressed Plants (D1)
	at or Crust (I	B4)		·			ion in Tilled	,			omorphic Position (D2)
Iron De	•	,		·		Surface		`	_		C-Neutral Test (D5)
Inundati	ion Visible o	n Aerial I	magery (B	7) (Gauge or	Well Data	(D9)				
Sparsel	y Vegetated	Concave	Surface (I	B8) (Other (Ex	plain in Re	emarks)				
Field Obser	rvations:										
Surface Wat	ter Present?	Y	es	No <u>√</u>	Depth (in	ches):		_			
Water Table	Present?	Y	es	No <u>√</u>	Depth (in	ches):		_			
Saturation P			es	No <u>√</u>	Depth (in	ches):		We	etland Hyd	drolog	y Present? Yes No <u>√</u>
(includes ca Describe Re	pillary fringe		nauge mo	nitoring w	all aprial	nhotos nr	evious ins	nections) if availal	hlo:	
											t not as consistent as other signatures.
Remarks:		, · , · · ·									
	and hydrolog	y indicat	ors observ	ed, no sati	uration. Di	itch waten	wav off-site	e and adi	iacent to t	he soi	uthwest. Water level in waterway approx
8-9 feet belo									,	- 550	

WETLAND DELINEATION REPORT



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389 December 13, 2024

Appendix D | Site Photographs

Solutions for people, projects, and ecological resources.



Photo #1 Sample point P1



Photo #3 Sample point P1



Photo #5 Sample point P2



Photo #2 Sample point P1



Photo #4 Sample point P1



Photo #6 Sample point P2



Photo #7 Sample point P2

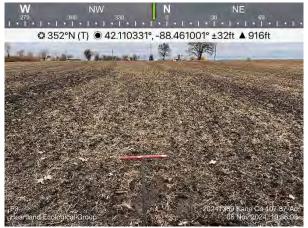


Photo #9 Sample point P3



Photo #11 Sample point P3

Photo #8 Sample point P2



Photo #10 Sample point P3

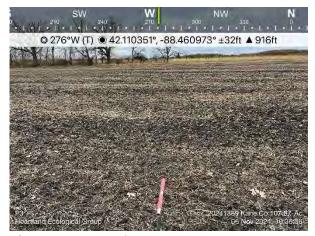


Photo #12 Sample point P3



Photo #13 Sample point P4



Photo #15 Sample point P4



Photo #17 Sample point P5



Photo #14 Sample point P4

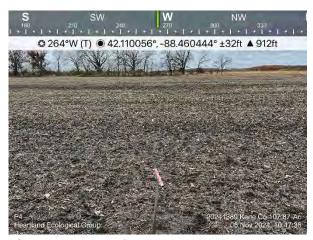


Photo #16 Sample point P4



Photo #18 Sample point P5



Photo #19 Sample point P5



Photo #21 Sample point P6



Photo #23 Sample point P6



Photo #20 Sample point P5



Photo #22 Sample point P6

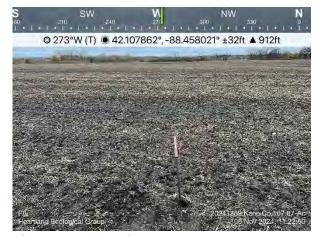


Photo #24 Sample point P6

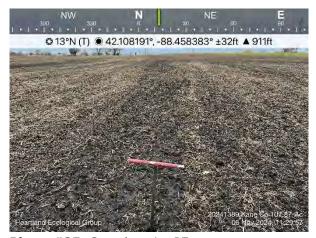


Photo #25 Sample point P7



Photo #27 Sample point P7



Photo #29 Sample point P8



Photo #26 Sample point P7



Photo #28 Sample point P7



Photo #30 Sample point P8



Photo #31 Sample point P8



Photo #33 Sample point P9



Photo #35 Sample point P9



Photo #32 Sample point P8



Photo #34 Sample point P9



Photo #36 Sample point P9



Photo #37 Sample point P10



Photo #39 Sample point P10



Photo #41 Sample point P11



Photo #38 Sample point P10



Photo #40 Sample point P10



Photo #42 Sample point P11



Photo #43 Sample point P11



Photo #45 Sample point P12



Photo #47 Sample point P12



Photo #44 Sample point P11



Photo #46 Sample point P12



Photo #48 Sample point P12



Photo #49 Sample point P13



Photo #51 Sample point P13

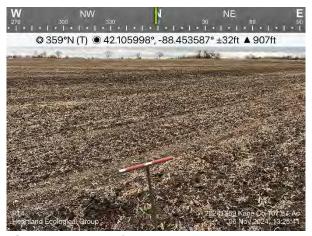


Photo #53 Sample point P14



Photo #50 Sample point P13



Photo #52 Sample point P13



Photo #54 Sample point P14



Photo #55 Sample point P14



Photo #57 Sample point P15



Photo #59 Sample point P15



Photo #56 Sample point P14



Photo #58 Sample point P15



Photo #60 Sample point P15



Photo #61 Growing season evidence: Elymus and Cirsium still green



Photo #63 Growing season evidence: Daucus and Elymus repens still green



Photo #62 Growing season evidence: Urtica and Bromus still green

WETLAND DELINEATION REPORT



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix E | Delineator Qualifications

Solutions for people, projects, and ecological resources.



Eric C. Parker, SPWS

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



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

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

Education

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

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

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

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

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

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

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

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

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

Registrations

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

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

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



Project Experience

Wetland Delineation & Regulatory Support

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

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

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

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



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

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

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



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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

WETLAND DELINEATION REPORT



Surya Powered LLC Big Timber & Reinking Roads Site Project #: 20241389

December 13, 2024

Appendix F | Off-Site Analysis

Solutions for people, projects, and ecological resources.



TABLE A1

Wetland Hydrology from Aerial Imagery - Recording Form*

Project Name: Kane Co Route 107.87 Ac Site Date: 10/15/2024 County: Kane

Investigator: Eric C. Parker, SPWS Legal Description (T, R, S): T42N, R7E, Sections 18-19-20

				Summary Ta	ble			
					Image Inter	pretation(s)		
Date Image	Image Source	Climate Condition		See Offsite An	alysis Reference Im	age figure for outlin	es of Areas 1-6	
Taken*	J	(wet, dry, normal)	Area: 1	Area: 2	Area 3	Area 4	Area 5	Area 6
2004-08-06	NAIP	Normal	CS DO	CS DO	cs	NV NSS	SS	SS
2005-03-31	Google Earth™	Normal	SS-	NV NSS	NV NSS	NV NSS	NV NSS	SS
2005-08-06	NAIP	Dry	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2006-06-02	Google Earth™	Normal	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2006-07-01	NAIP	Normal	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2007-06-06	Google Earth™	Normal	NV NSS	NV NSS	NV NSS	NV NSS	SS-	NV NSS
2007-07-07	NAIP	Dry	NV NSS	NV NSS	NV NSS	NV NSS	SS	NV NSS
2007-10-10	Google Earth™	Normal	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2008-05-03	Google Earth™	Wet	SS-	SS-	SS-	SS-	SS-	SS-
2009-06-27	Google Earth™	Wet	CS-	DO	CS-	CS-	CS SS -	DO
2009-08-02	NAIP	Normal	CS-	DO	CS-	CS-	SS-	SS CS -
2010-06-23	Google Earth™	Normal	NV NSS	SS CS	CS-	CS-	CS SS-	WS
2010-07-01	NAIP	Normal	NV NSS	SS CS	CS-	CS-	SS-	WS
2011-08-26	NAIP	Wet	NV NSS	CS-	NV NSS	NV NSS	CS-	NV NSS
2011-09-14	Google Earth™	Wet	NV NSS	CS-	NV NSS	NV NSS	CS	NV NSS
2012-06-19	NAIP	Dry	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2014-06-13	NAIP	Normal	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2015-05-12	Google Earth™	Normal	NV NSS	SS-	NV NSS	SS	NV NSS	SS DO
2015-09-16	NAIP	Wet	CS-	CS-	CS-	CS-	SS CS	NV NSS
2017-04-06	Google Earth™	Normal	SS	SS	SS	SS	SS	SS
2017-09-01	NAIP	Normal	CS-	DO	CS	CS	CS	CS DO
2018-07-06	Google Earth™	Wet	SS	SS SW	SS	SS	SS	SS
2019-09-14	NAIP	Normal	SS	SW	SS SW	SS SW	SS	SS WS
2020-06-07	Google Earth™	Wet	SW SS	SW SS	SW SS	SW SS	SW SS	SW SS
2021-05-28	Google Earth™	Dry	SS-	SS	SS	SS	SS	SS
2021-07-24	Google Earth™	Normal	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS	NV NSS
2021-09-05	NAIP	Normal	CS-	CS-	CS-	CS-	NV NSS	SS
2023-08-16	NAIP	Normal	NV NSS	NV NSS	NV NSS	NV NSS	CS-	NV NSS
Normal Climate Condition		dition	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
		Number	17	17	17	17	17	17
	Numbe	r with wet signatures	7	10	8	8	9	10
	Percen	t with wet signatures	41%	59%	47%	47%	53%	59%

	Key								
WS - Wetland Signature		SS - Soil Wetness Signature	CS - Crop Stress						
NC - Not Cropped		AP - Altered Pattern	NV - Normal Vegetative Cover						
DO - Drowned Out		SW - Standing Water	NSS - No Soil Wetness Signature						
Other labels or comments:	April 6, 2017 aeri	•	signatures in all 6 areas-potentially meaning these areas are effectively drained, or						

Images that were taken after the 20th of their respective month were evaluated under the following month's table to account for otherwise missing precitation data from the start of the month to the date the image was recorded.

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

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

^{*}Source: http://www.bwsr.state.mn.us/wetlands/delineation/Guidance for Offsite Hydrology and Wetland Determinations.pdf



Wetland Determination from Aerial Imagery - Recording Form*

Project Name:	Kane Co Route 107.87 Ac Site	Date:	10/15/2024	County:	Kane
Investigator:	Eric C. Parker, SPWS	l e	egal Description (T. R. S):	12N. R7E. Sections 18-19-20	

Use the decision matrix below to create Table A2

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

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

TABLE A2

Area	Hydric Soils Present? ¹	Identified on NWI or WWI?	Percent with Wet Signatures from TABLE A1	Other Hydrology Indicators Present? ¹	Wetland?
1	Yes	No	41%	Need Field Check	Yes(?)
2	Yes	No	59%	N/A	Yes
3	No	No	47%	Need Field Check	Yes(?)
4	Yes	No	47%	Need Field Check	Yes(?)
5	Yes	No	53%	N/A	Yes
6	Yes	No	59%	N/A	Yes

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

http://www.bwsr.state.mn.us/wetlands/delineation/Guidance for Offsite Hydrology and Wetland Determinations.pdf



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

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























US 20 contributors,72 IL 47 CC-BY-SA

Study Area (108.64 ac)

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Appendix: 2017-09-01 NAIP Aerial Imagery Kane County 107.87-Acre Site Project #20241389 T42N, R7E, S18, S19, S20 Town of Rutland, Kane Co, IL

Figure Created: 10/16/2024





US 20 contributors,⁷⁴
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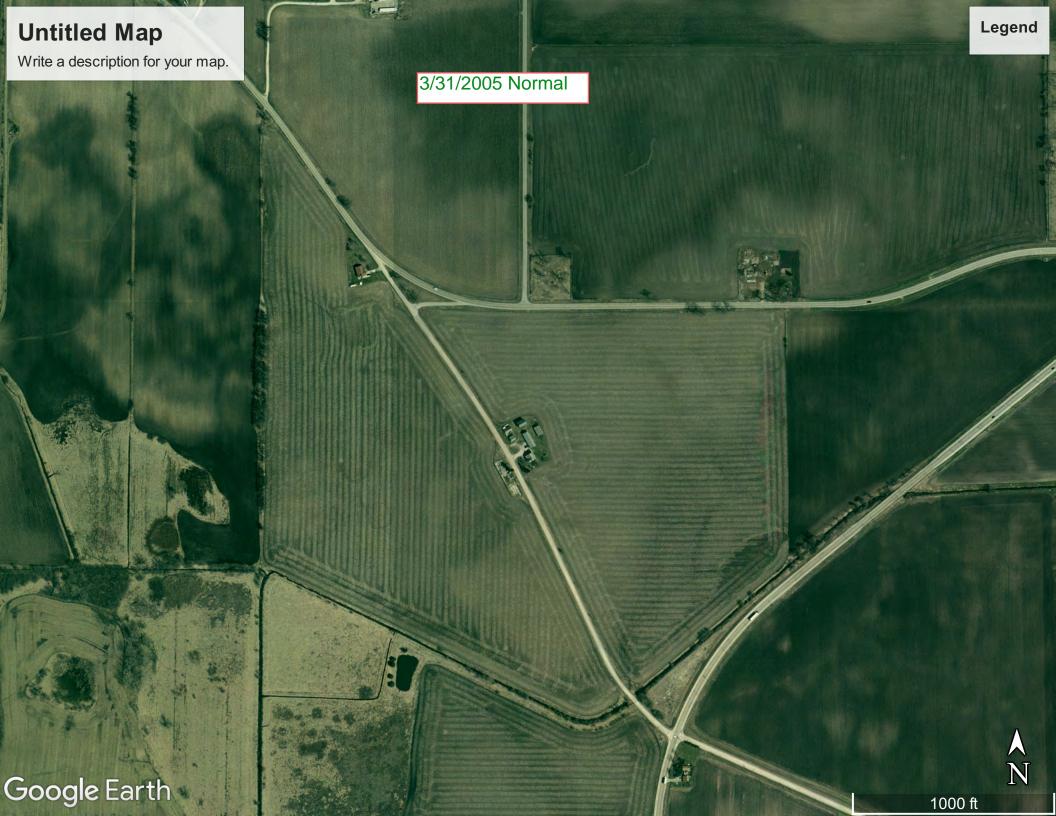
Study Area (108.64 ac)

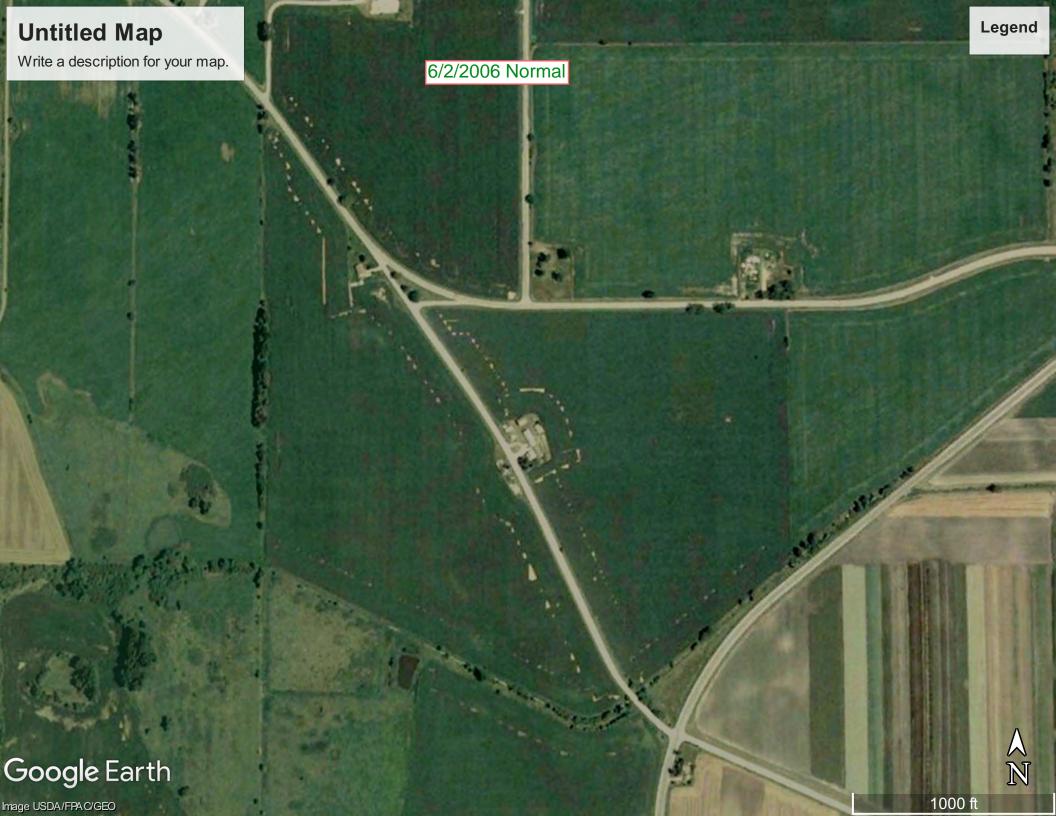
Heartland ECOLOGICAL GROUP INC

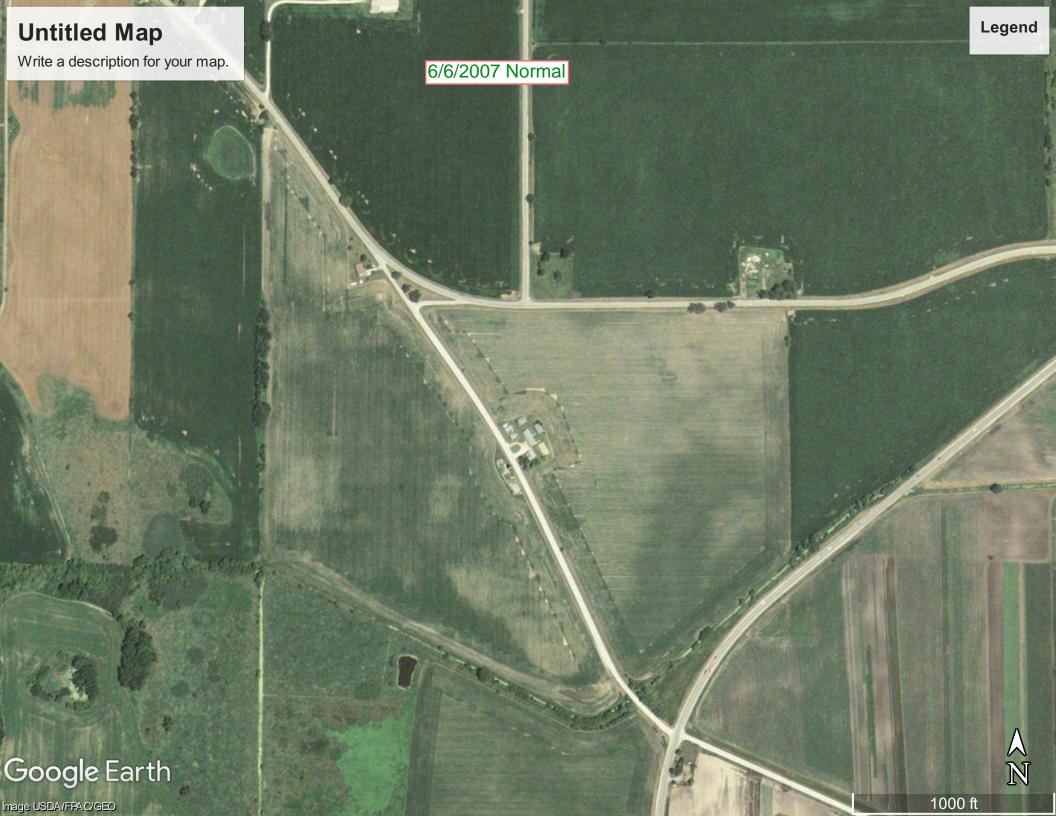
Appendix: 2021-09-05 NAIP Aerial Imagery Kane County 107.87-Acre Site Project #20241389 T42N, R7E, S18, S19, S20 Town of Rutland, Kane Co, IL

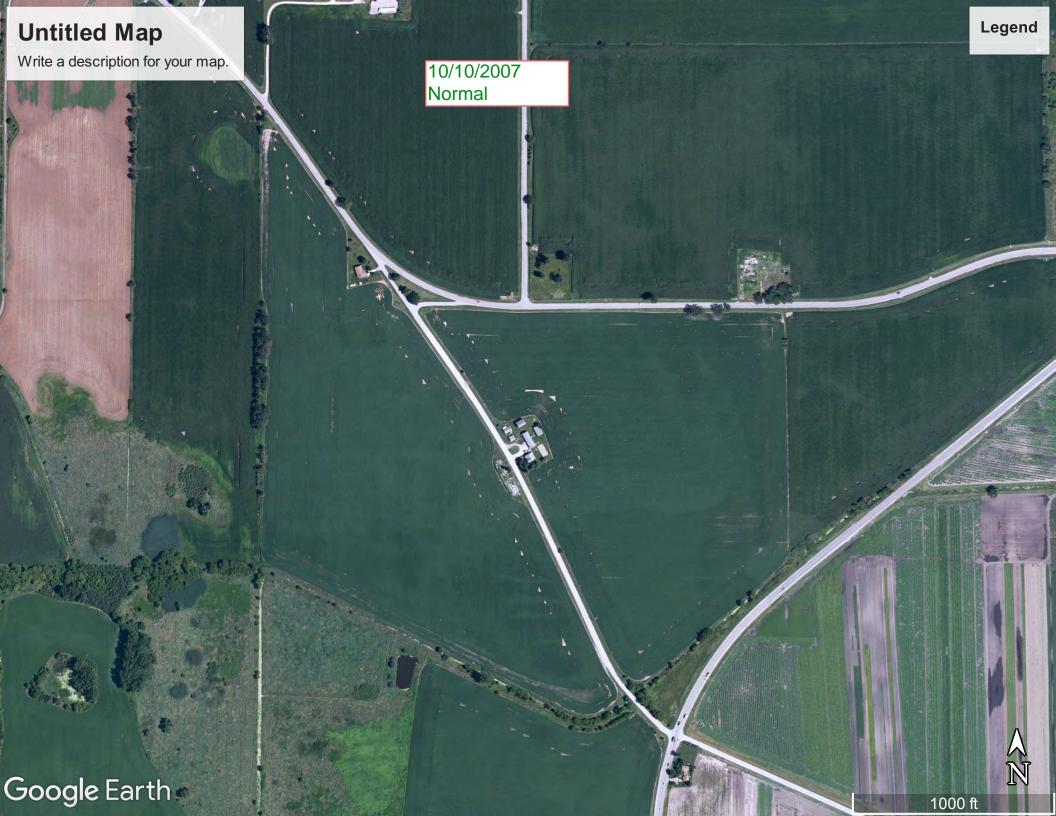
Figure Created: 10/16/2024

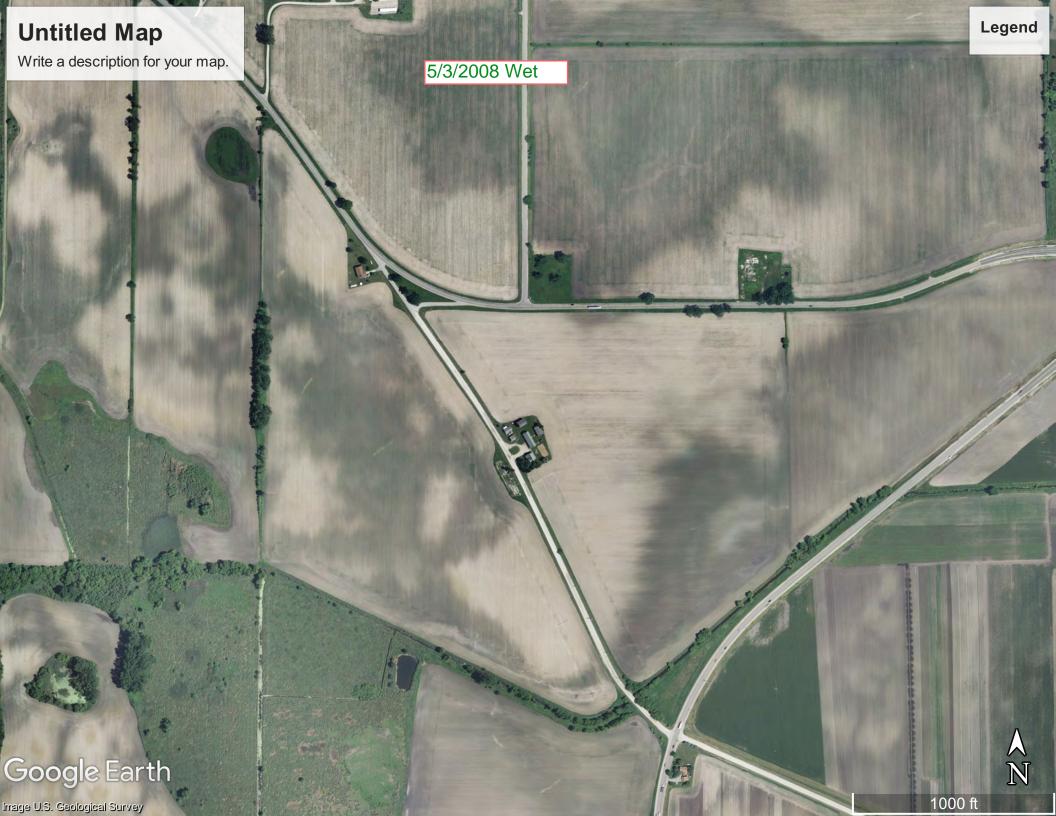


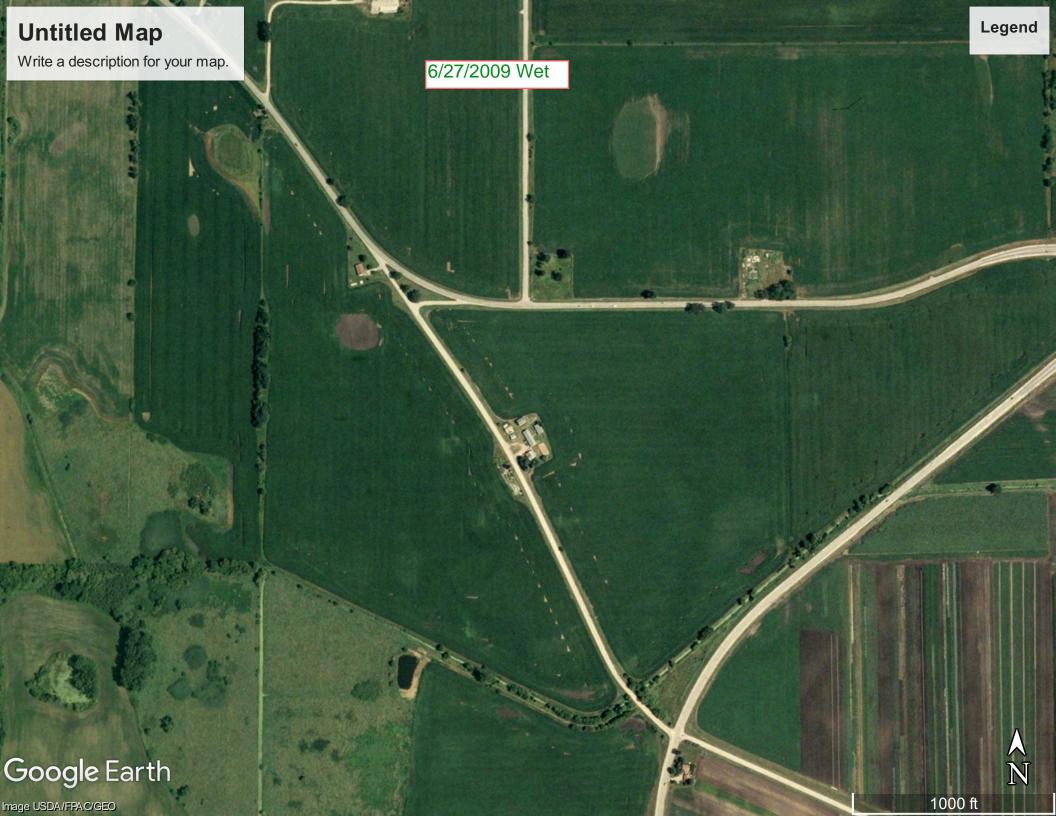


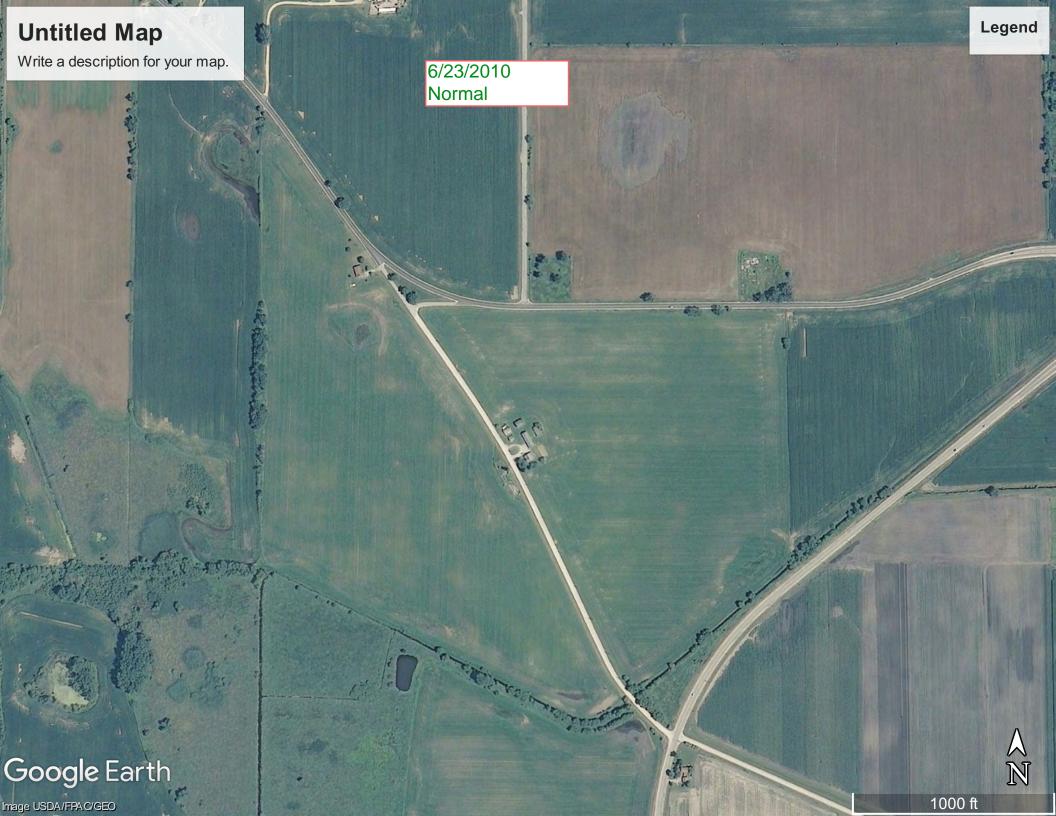


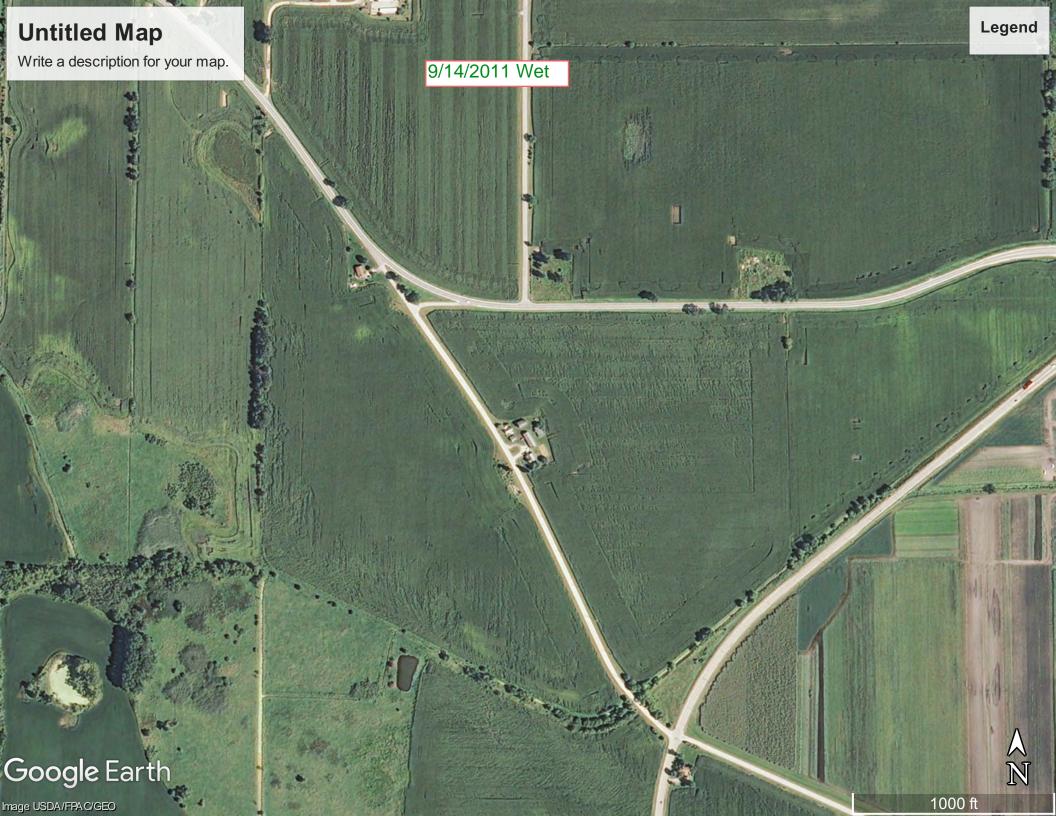


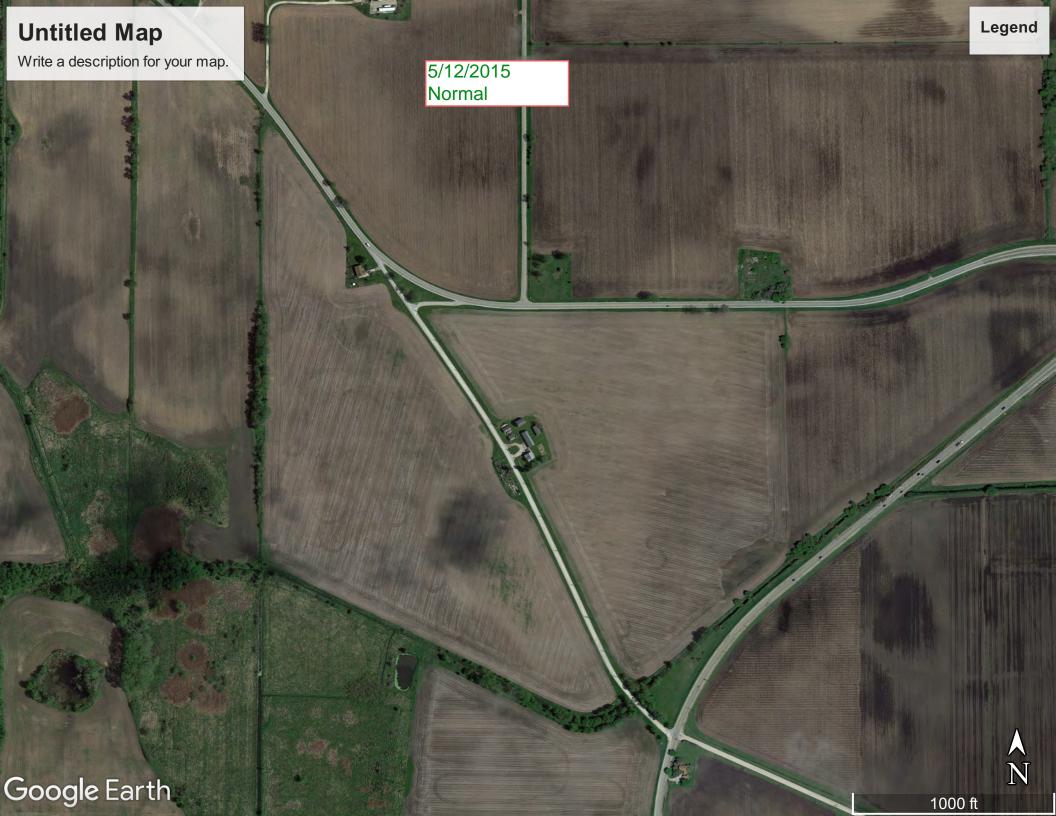


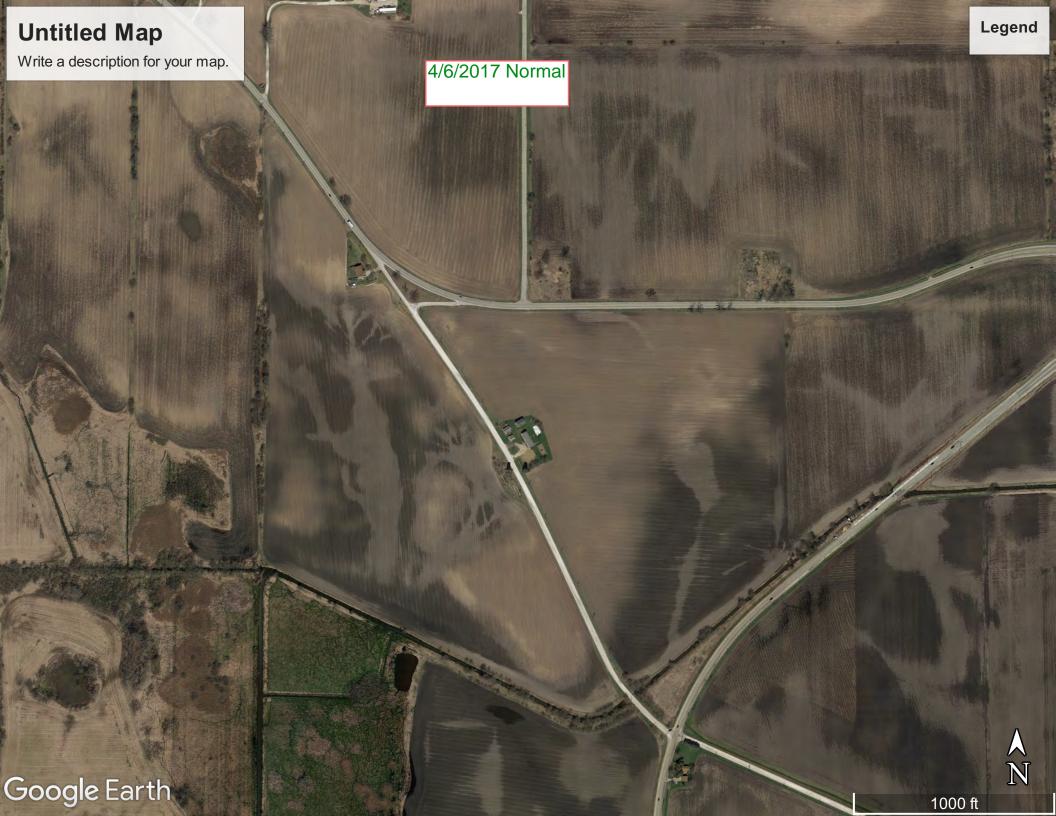


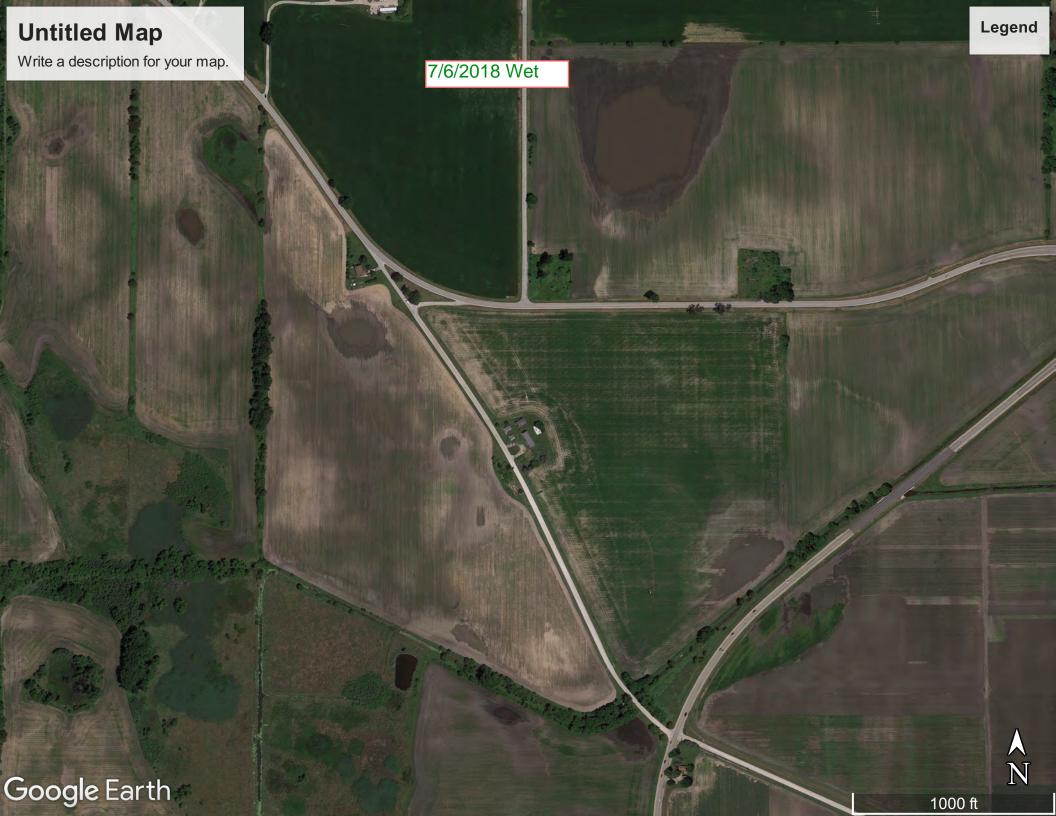


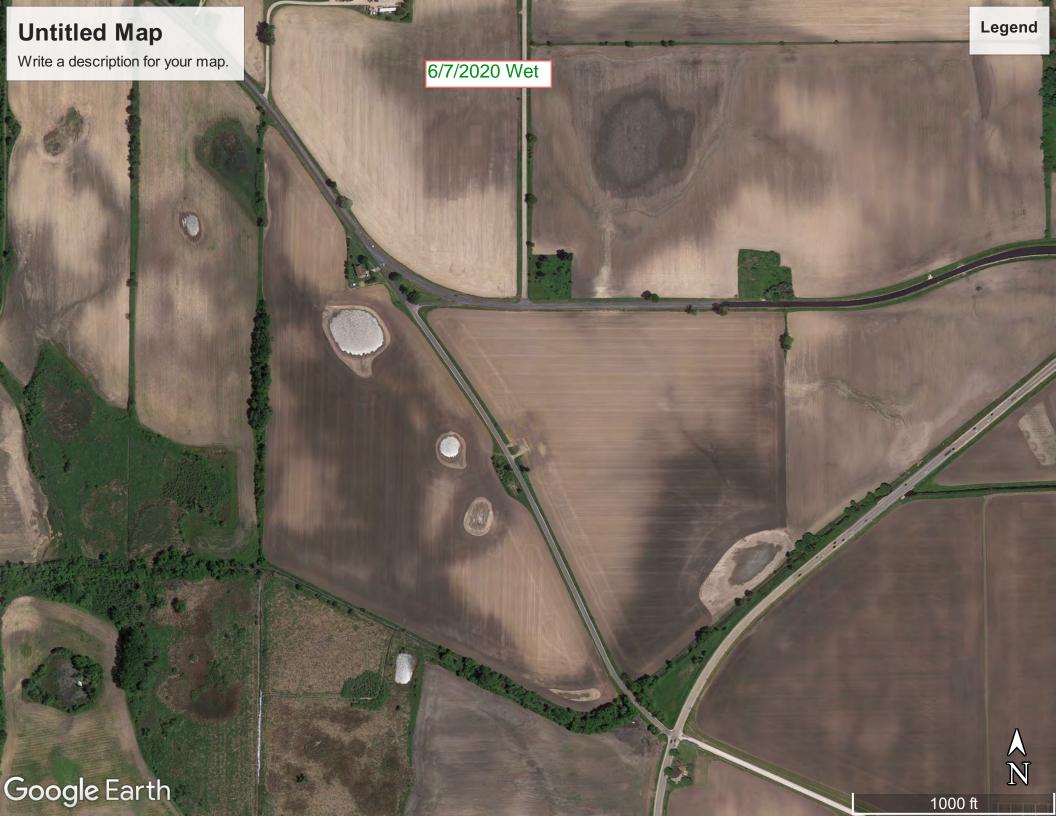


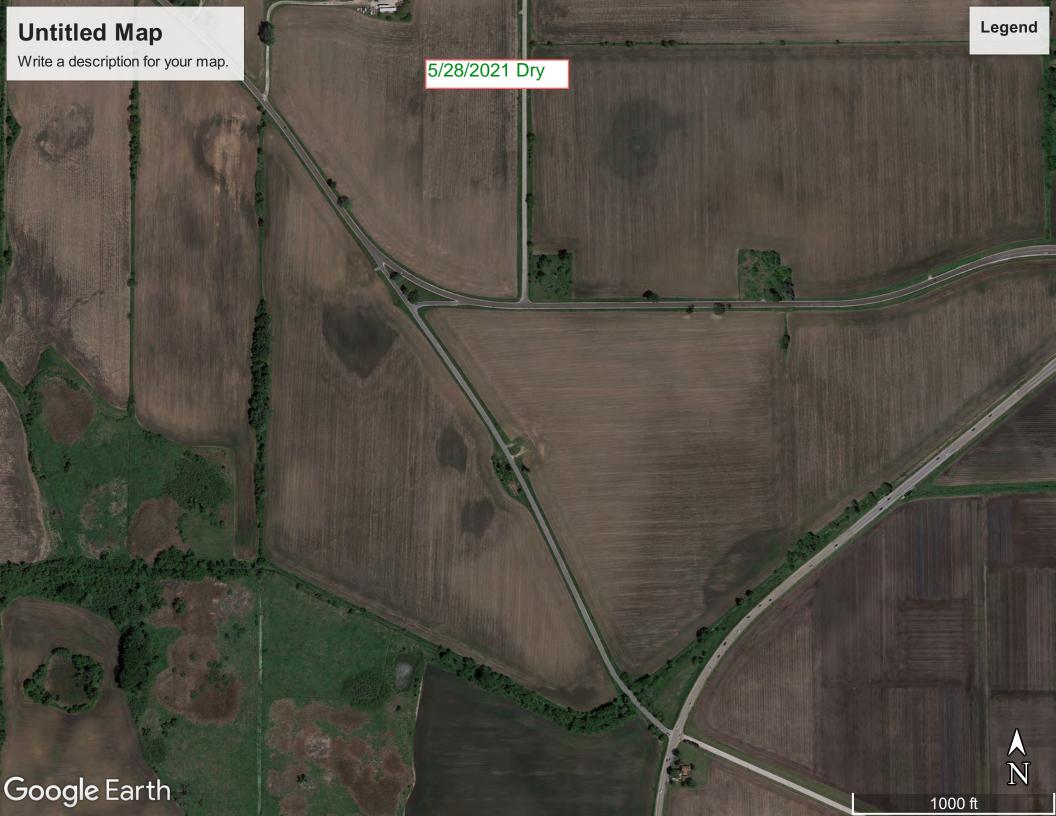


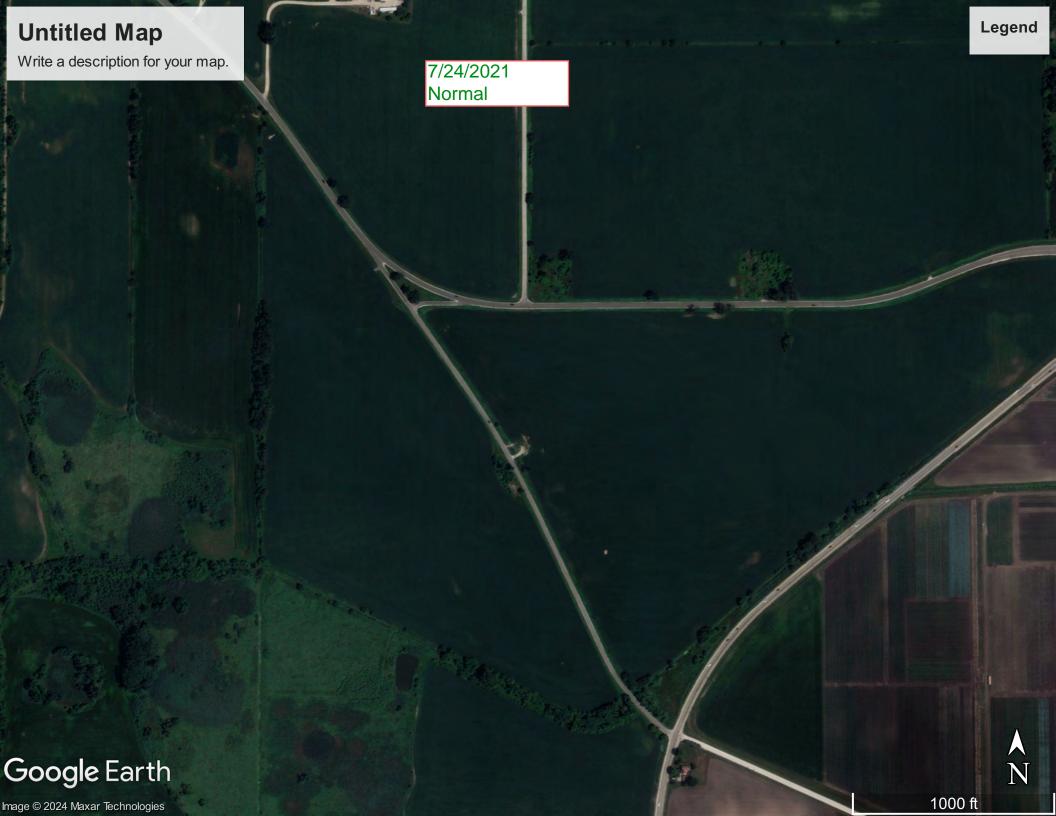












April Aerial Imagery Off-Site Aerial Imagery Analysis

on one mornan imagery i	,							
Date	January	Weighted Precip	Feburary	Weighted Precip	March	Weighted Precip	Weighted Sum	Relative Wetness
31-Mar-05	3.03	3	1.71	4	0.94	3	10	Normal
06-Apr-17	2.83	3	0.90	2	4.94	9	14	Normal
30% chance less than**	1.20		1.00		1.37			
30 Year Average**	1.85		1.83		2.26			
30% chance more than**	2.22		2.23		2.74			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

May Aerial Imagery
Off-Site Aerial Imagery Analysis

			Monthly Rain	fall in Inches ¹				
Date	February	Weighted Precip	March	Weighted Precip	April	Weighted Precip	Weighted Sum	Relative Wetness
5/3/08	3.92	3	1.89	4	4.53	9	16	Wet
5/12/15	1.45	2	1.28	2	3.14	6	10	Normal
30% chance less than**	1.00		1.37		2.80			
30 Year Average**	1.83		2.26		3.83			
30% chance more than**	2.23		2.74		4.51			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

June Aerial Imagery Off-Site Aerial Imagery Analysis

On-Site Aeriai imagery A	Tilalysis							
			Monthly Rain	fall in Inches 1				
Date	March	Weighted Precip	April	Weighted Precip	May	Weighted Precip	Weighted Sum	Relative Wetness
2-Jun-06	3.64	3	3.41	4	4.76	6	13	Normal
6-Jun-07	3.40	3	3.91	4	2.52	3	10	Normal
19-Jun-12	1.82	2	3.13	4	1.57	3	9	Dry
13-Jun-14	1.31	1	2.72	2	5.46	9	12	Normal
7-Jun-20	3.69	3	5.06	6	8.90	9	18	Wet
28-May-21	1.28	1	1.13	2	1.76	3	6	Dry
30% chance less than**	1.37		2.80		3.36			
30 Year Average**	2.26		3.83		4.44	1		
30% chance more than**	2.74		4.51		5.18			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

July Aerial Imagery

Off-Site Aerial Imagery Analysis

on one homa magery h	•		Monthly Rain	nfall in Inches 1				
Date	April	Weighted Precip	May	Weighted Precip	June	Weighted Precip	Weighted Sum	Relative Wetness
07/10/05	2.62	1	2.51	2	0.46	3	6	Dry
07/01/06	3.41	2	4.76	4	4.39	6	12	Normal
07/07/07	3.91	2	2.52	2	2.93	3	7	Dry
06/27/09	5.31	3	4.18	4	6.17	9	16	Wet
06/23/10	2.92	2	6.12	6	4.21	6	14	Normal
07/01/10	2.92	2	6.12	6	4.21	6	14	Normal
07/02/17	4.57	3	5.48	6	5.45	9	18	Wet
07/06/18	2.06	1	9.79	6	9.21	9	16	Wet
30% chance less than**	2.80		3.36		3.13			
30 Year Average**	3.83		4.44		4.46			
30% chance more than**	4.51		5.18		5.29			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

August Aerial Imagery

Off-Site Aerial Imagery Analysis

On One Acrial imagery			Monthly Rai	infall in Inches 1				
Date	May	Weighted Precip	June	Weighted Precip	July	Weighted Precip	Weighted Sum	Relative Wetness
08/06/04	8.60	3	4.11	4	2.51	3	10	Normal
08/06/05	2.51	1	0.46	2	1.39	3	6	Dry
07/21/07	2.52	1	2.93	2	5.91	9	12	Normal
08/02/09	4.18	2	6.17	6	2.44	3	11	Normal
07/24/21	1.76	1	5.68	6	1.09	3	10	Normal
08/16/23	1.46	1	2.46	2	8.43	9	12	Normal
30% chance less than**	3.36		3.13		2.69			
30 Year Average**	4.44		4.46		4.13			
30% chance more than**	5.18		5.29		4.96			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

September Aerial Imagery

Off-Site Aerial Imagery Analysis

on one remainingery			Monthly Ra	infall in Inches ¹				
Date	June	Weighted Precip	July	Weighted Precip	August	Weighted Precip	Weighted Sum	Relative Wetness
8/26/11	4.45	2	5.76	6	6.27	9	17	Wet
9/14/11	4.45	2	5.76	6	6.27	9	17	Wet
9/16/15	8.35	3	5.74	6	3.10	6	15	Wet
9/1/17	5.45	3	9.69	6	2.14	3	12	Normal
9/14/19	3.74	2	3.30	4	3.23	6	12	Normal
9/5/21	5.68	3	1.09	2	3.94	6	11	Normal
30% chance less than**	3.13		2.69		2.96			
30 Year Average**	4.46		4.13		4.51			
30% chance more than**	5.29		4.96		5.41			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

October Aerial Imagery Off-Site Aerial Imagery Analysis

			Monthly Ra	ainfall in Inches	1			
Date	July	Weighted Precip	August	Weighted Precip	September	Weighted Precip	Weighted Sum	Relative Wetness
10-Oct-07	5.91	3	15.69	6	0.77	3	12	Normal
28-Sep-21	1.09	1	3.94	4	1.48	3	8	Dry
30% chance less than**	2.69		2.96		1.98			
30 Year Average**	4.13		4.51		3.44			
30% chance more than**	4.96		5.41		4.19			

WETS Station: Elgin Water, IL

30-Year Precipitation Data (1994-2023) from NOAA Website

WETO Chatiers El Old WATER													
WETS Station: ELGIN WATER, IL													
Requested years: 1994 - 2023													
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0. 10 or more	Avg Snowfall					
Jan	30.1	14.2	22.1	1.85	1.20	2.22	5	10.4					
Feb	33.8	16.1	24.9	1.83	1.00	2.23	5	8.6					
Mar	46.3	26.5	36.4	2.26	1.37	2.74	5	3.1					
Apr	58.6	36.8	47.7	3.83	2.80	4.51	8	0.7					
May	70.1	48.2	59.1	5.16	3.54	6.14	9	0.0					
Jun	80.3	58.6	69.5	4.46	3.13	5.29	7	0.0					
Jul	84.2	63.4	73.8	4.13	2.69	4.96	6	0.0					
Aug	82.4	61.6	72.0	4.51	2.96	5.41	6	0.0					
Sep	76.2	53.3	64.8	3.44	1.98	4.19	6	0.0					
Oct	62.9	41.5	52.2	3.37	2.06	4.09	6	0.0					
Nov	48.0	30.2	39.1	2.36	1.46	2.86	5	1.4					
Dec	35.8	20.5	28.2	2.22	1.57	2.64	5	7.0					
Annual:	50.5	22.2	40.5		36.05	43.99							
Average	59.1	39.2	49.1	-	-	-	-	-					
Total	-	-	-	39.42			73	31.3					
GROWING SEASON DATES													
Years with missing data:	24 deg =	28 deg =	32 deg =										
rears with missing data.	1	1	0										
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0										
Data years used:	24 deg = 29	28 deg = 29	32 deg = 30										
Probability	24 F or higher	28 F or higher	32 F or higher										
50 percent *	4/1 to 11/ 12: 225 days	4/14 to 10/27: 196 days	4/28 to 10/18: 173 days										
70 percent *	3/28 to 11/16: 233 days	4/9 to 11/ 1: 206 days	4/25 to 10/22: 180 days										
* Percent chance of the growing season occurring between the Beginning and Ending dates.	·	·											
STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Λιια	Sep	Oct	Nov	Dec	Annl
1983	Jan	ren	M0.00	6.76	3.47	2.10	3.55	Aug 3.26	6.	M3.	5.19	M1.	35.
1903			IVIU.UU	0.70	3.41	2.10	3.55	3.20	19	74	5.19	64	90
1984	M0.51	1.42	M0.27	M4.49								M1. 83	8.52
1985		M1.37	3.74	1.45	3.74	3.08	5.70	4.07	2. 54	3. 75	8.42	M0. 76	38. 62
1986	M0.31	M1.72	M0.20	2.30	4.98	4.24	4.41	1.67	7. 08		1.36	0.97	29. 24
1987	0.75	0.04	M1.42	3.51	M4.52	M1.68	3.52	11.36	2. 54	1. 18	M4. 04	M2. 98	36. 79
1988	2.16	M1.02	M1.94	3.18	1.15	1.36	2.57	5.69	2. 31	2. 65	4.20	M3. 01	31. 24
1989	M0.50	M0.84	0.66	1.01	4.70	4.38	6.65	M6.26	4. 39	1. 06	2.31	29	28. 35
1990	M2.42	1.81	2.31	2.01	4.70	4.98	2.82	6.44	1. 02	3. 31		1.69	37. 85
1991	M0.73	0.24	2.28	4.13	5.02	1.59		2.68	3.	5.	3.01	1.54	30.

1992	0.92	1.41	M3.81	2.75	0.47	1.02	5.42	2.67	11 4.	84 1.	5.69	2.92	77 32.
1993	3.38	1.08	2.53	7.16	2.07	10.40	5.32	3.30	02 3.	13 1.	1.97	1.69	23 43.
1994	M1.41	M1.35	1.11	1.84	1.47	4.19	3.68	5.45	44 2.	49 1.		1.18	83 31.
1995	M3.27	0.08	2.40	5.82	5.35	1.71	4.62	5.18	00 1.	16 5.	4.14	M0.	04 40.
1996	M1.10	1.02	0.67	2.43	8.70	5.51	3.82	5.68	90	11	M1.	65	23
1997	M0.60	M5.62	2.04	1.64	5.57	2.80	1.52	M4.73	27 1.	02	37 M1.	M1.	30.
									98	2. 26	33	29	38
1998	3.64	1.56	2.17	5.07	3.81	5.27	1.82	4.46	3. 11	6. 27		1.80	40. 92
1999	M3.04	1.44	M0.23	8.53	3.38	M6.51	3.68	1.80	5. 01	1. 31		2.30	37. 86
2000	M1.03	M0.91	1.60	4.36	4.50	6.16	4.42	3.22	5. 71	1. 74		2.54	40. 84
2001	1.43	2.73	1.18	3.42	4.24	3.86	1.19	4.13	6. 00	7. 53	1.93	1.49	39. 13
2002	1.51	M1.26	2.24	3.66	4.89	5.56	1.54	10.21	1. 89	1. 92	0.93	1.20	36. 81
2003	0.37	0.20	1.49	2.35	8.46	1.58	3.53	2.07	1. 80	1. 92	5.46	2.85	32. 08
2004	0.68	0.87	4.97	1.73	8.60	4.11	2.51	3.98	0. 72	2. 66	3.09	2.48	36. 40
2005	M3.03	1.71	0.94	2.62	2.51	0.46	1.39	3.71	2. 01	0. 78	2.71	1.00	22. 87
2006	3.12	1.29	3.64	3.41	4.76	4.39	3.75	3.30	4. 28	4. 46	2.78	2.97	42. 15
2007	1.75	1.89	3.40	3.91	2.52	2.93	5.91	15.69	0. 77	3. 28	1.01	3.20	46. 26
2008	1.92	3.92	1.89	4.53	3.84	4.45	4.31	3.74	11. 48	2. 41	1.17	5.22	48. 88
2009	1.17	2.45	5.08	5.31	4.18	6.17	2.44	6.57	0. 70	5. 85	1.69	3.78	45. 39
2010	1.20	1.29	M0.29	M2.92	6.12	4.21	8.98	2.84	4. 05	M0. 58	M1. 21	M1. 43	35. 12
2011	M1.21	3.27	2.73	M5.62	8.22	M4.45	M5.76	M6.27	M4. 49	M1. 76	M4. 14	M3. 08	51. 00
2012	1.42	M0.76	1.82	3.13	1.57	2.66	2.75	2.81	2.	4.	0.69	2.77	26.
2013	3.51	3.01	2.19	7.42	2.96	3.86	3.00	2.70	09 4.	1.	3.17		50 38.
2014	2.18	1.81	1.31	2.72	M5.46	5.89	4.02	6.77	3.	79 2.	1.39	14 1.19	77 39.
2015	1.56	1.45	1.28	3.14	5.18	M8.35	5.74	3.10	30 5.	97	4.81	M5.	01 46.
2016	M0.34	1.14	3.30	3.04	6.49	3.86	4.59	3.58	48 2.	39	2.38	50 1.85	98 36.
2017	M2.83	0.90	4.94	4.57	5.48	5.45	9.69	2.14	24 0.	58 7.	1.92	0.90	39 47.
2018	1.28	4.67	1.51	2.06	9.79	9.21	2.77	5.81	58 3.	78 5.	M3.	2.06	18 51.
2019	2.97	M3.41	2.32	4.69	8.76	3.74	3.30	3.23	84 8.	44 5.	20 1.95	2.02	64 51.
2020	2.76	0.68	3.69	5.06	8.90	5.44	4.21	0.70	89 5.	90 3.	M2.	M2.	18 44.
2021	1.78	1.07	1.28	1.13	1.76	5.68	1.09	3.94	47	42 M7.	11	01 M2.	45 29.
2021	M0.62	M2.30	3.28	M3.67	5.73	2.74	9.30	5.76	48 2.	02 M1.	1.01	36 2.17	42 40.
									43	81			82
2023	2.67	4.20	2.82	4.24	1.46	2.46	8.43	1.66	3. 27	3. 07	1.04	2.60	37. 92
2024 es: Data missing in any	3.49	M0.93	M1.73										6.15

Notes: Data missing in any month have an "M" flag. A "T"

indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2024-03-14