



AQUATIC RESOURCE DELINEATION REPORT

PROJECT SITE:
LTHS 204 WILLOW SPRINGS SITE
Willow Springs, Cook County, Illinois

PREPARED FOR:
LYONS TOWNSHIP HIGHSCHOOL
DISTRICT 204
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LAGRANGE, ILLINOIS 60525

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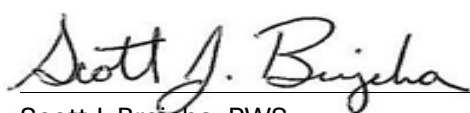
We hereby certify that this Aquatic Resource Delineation Report has been prepared by V3 Companies for use by Lyons Township High School District 204, their affiliates, lenders, and assignees.

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EXECUTIVE SUMMARY

The 71.32-acre property was investigated by V3 Companies (V3) on June 2, 2026, June 4, 2026 and June 13, 2026, to determine the presence, extent and quality of any wetlands or Waters under U.S. Army Corps of Engineers (USACE) and/or Metropolitan Water Reclamation District (MWRD) jurisdiction.

Delineation Summary

One wetland (Area 1) and one exempt roadside ditch (Area 2) was identified in and within 100-feet of the property, as described below. Additionally, one off-site wetland and one exempt stormwater basin was identified within 100-feet of the western edge of the property. No other wetlands or Waters were observed within 100-feet of the property, per the Ordinance. A summary of the identified areas is provided in Table 1 and a summary of the data points is provided in Table 2.

- Area 1 (4.29 acres) is an emergent wetland located at the southeast corner of the property.
- Area 2 is an exempt roadside ditch located at the southeast corner of the property.

In V3's professional opinion, Area 1 is an isolated wetlands subject to MWRD jurisdiction and Area 2 is an exempt roadside ditch. A No Permit Required (NPR) with Approved Jurisdictional Determination (AJD) is required from USACE to confirm the jurisdiction of the identified areas.

Table 1. Aquatic Resource Summary Table

Area	On-Site Size (Acres)	Off-Site Size (Acres)	Native Mean Conservatism (NMC)	Floristic Quality Index (FQI)*	Quality**	Jurisdictional Status	MWRD Buffer Requirement
1	4.29	<0.00	2.56	13.28	SIW	MWRD	50'
Total	4.29	<0.00					

* = Based on the Floristic Quality Assessment (FQA) methodology in *Plants of the Chicago Region* (Swink and Wilhelm, 1994)

** = **SIW** = Standard Isolated Wetland (NMC $\leq$ 3.5 and FQI $\leq$ 20, MWRD jurisdiction); **HQIW** = High Quality Isolated Wetland (NMC $\geq$ 3.5 or FQI $\geq$ 20, MWRD jurisdiction).

Table 2. Data Point Summary Table

Area	Data Point	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Wetland or Waters of the U.S.
Upland	X01	No	No	No	No
Upland	X02	No	No	No	No
1	X03	Yes	Yes	Yes	Yes
1	X04	Yes	Yes	Yes	Yes
Upland	X05	No	No	No	No
2	X06	Yes	Yes	Yes	No*
Upland	X07	No	No	No	No
Upland	X08	No	No	No	No
Upland	X09	No	No	No	No
Upland	X10	No	Yes	No	No
Upland	X11	No	No	No	No
Upland	X12	No	No	No	No



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Upland	X13	No	No	No	No
Upland	X14	Yes	No	Yes	No
Upland	X15	No	No	No	No
Upland	X16	No	No	No	No
Upland	X17	No	No	No	No

*= Roadside ditch; exempt water feature

Regulatory Summary

Pursuant to Section 404 of the Clean Water Act, the U. S. Army Corps of Engineers (USACE) has jurisdiction over the placement of fill or dredged material in all jurisdictional waters of the United States. On September 8, 2023, the Revised Definition of “Waters of the United States”, which conforms to the 2023 U.S. Supreme Court Sackett decision, was published in the Federal Register and became effective immediately. Under the revised definitions, the following areas qualify as “Waters of the US” subject to USACE jurisdiction:

1. Navigable waters; the territorial seas; or interstate waters;
2. Impoundments of these waters;
3. Tributaries of navigable waters, the territorial seas and interstate waters that are relatively permanent, standing or continuously flowing bodies of water;
4. Wetlands adjacent to navigable waters, the territorial seas, or interstate waters that are relatively permanent, standing or continuously flowing bodies of water, and with a continuous surface connection to those waters;
5. Interstate lakes or ponds not identified above that are relatively permanent, standing or continuously flowing bodies of water, and with a continuous surface connection to the waters identified in items 1-4 above.

In accordance with the March 12, 2025 Memorandum to the Field Between the U. S. Department of the Army, U. S. Army Corps of Engineers and the US Environmental Protection Agency Concerning the Proper Implementation of “Continuous Surface Connection” Under the Definition of “Waters of the United States” under the Clean Water Act, in order for a wetland to be considered adjacent to a jurisdictional waterway or tributary, it must have a continuous surface connection because it directly abuts the waterway making it difficult to determine where the water ends and the wetland begins. Surface connections through a discrete water feature such as a ditch, swale, pipe or culvert do not constitute a continuous surface connection.

The following areas are not jurisdictional “Waters of the United States”:

1. Waste treatment systems;
2. Prior converted cropland;
3. Ditches, including roadside ditches, excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water
4. Artificially irrigated areas that would revert to dry land if irrigation ceased;
5. Artificial lakes and ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;
6. Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;



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7. Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States; and
8. Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow.

On January 9, 2025, the Metropolitan Water Reclamation District (MWRD) amended the Watershed Management Ordinance (WMO) which regulates isolated wetlands and isolated “waters” within Cook County. The WMO requires a Watershed Management Permit for any proposed impacts to isolated wetlands and/or isolated “waters” in Cook County resulting from regulated development activities. Impacts to isolated wetlands/waters that are equal to or exceed 0.10 acre will require compensatory mitigation based on the quality of the area. Mitigation at a ratio of 1.5:1 is required for impacts to Standard Isolated Wetlands (SIW) which are defined as isolated wetlands and “waters” that have a NMC less than 3.5 and an FQI less than 20. Mitigation at a ratio of 3:1 is required for impacts to High Quality Isolated Wetlands (HQIW) which are defined as isolated wetlands and “waters” that have a NMC of 3.5 or greater and/or an FQI of 20 or greater. Buffer requirements, which are dependent on the quality and size of the wetland, are shown in Table 1.



INTRODUCTION AND BACKGROUND

The 71.32-acre property was investigated by V3 Companies (V3) on June 2, 2026, June 4, 2026 and June 13, 2026 to determine the presence, extent and quality of any wetlands or Waters under U.S. Army Corps of Engineers (USACE) and/or Metropolitan Water Reclamation District (MWRD) jurisdiction. Identified wetland boundaries are marked in the field using pink wire flags labeled “Wetland Delineation”. This report summarizes the results of the field investigation and provides technical documentation for all investigated areas.

The property is located north of German Church Road, south of 79th Street, east of Howard Avenue, and west of Willow Springs Road in Willow Springs, Cook County, Illinois (Section 32 and 29, T38N, R12E; 41.7427982°N, -87.8887428°W; Sag Bridge Quadrangle, Figure 1).

No wetlands are mapped on the property on the National Wetlands Inventory (NWI) Map (Figure 2).

The USGS Hydrologic Atlas (Figure 3) does not show any streams or creeks on the property.

The 12-Digit Hydrologic Unit Code (HUC) Map (Figure 4) shows the property is in the Flag Creek (HUC 071200040701) and Goose Lake Des-Plaines River sub watershed (HUC 071200040706) which is within the larger Des Plaines River (HUC 07120004) watershed.

The FEMA Flood Insurance Rate Map (FIRM) (Figure 5) shows Zone X on the property.

The Flood Zones of Cook County, Illinois Map (2024) (Figure 6) does not show flood zone on the property.

The soil series mapped in the property on the Soil Survey of Cook County, Illinois (Figure 7) are listed below.

Table 3. Soil Survey Information		
Map Unit Symbol	Soil Name	Hydric Soil
318D2	Lorenzo loam	No
327B	Fox silt loam	No
329A	Will loam	Yes
343A	Kane loam	No
530D	Ozaukee silt loam	No
903A	Muskego and Houghton mucks	Yes

The Aquatic Resource Delineation Map (Figure 8) shows the location of the data points and identified areas as professionally surveyed by V3 Companies.



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Wetland Delineation Methods

Wetland delineations are conducted following the methods given in the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region*. Under the delineation procedures in this manual, an area must exhibit characteristic hydrophytic vegetation, hydric soils, and wetland hydrology to be considered a wetland. If field investigation determines that any of the three parameters are not satisfied, the area usually does not qualify as wetland. Moreover, drainage ditches excavated in dry land are generally not considered jurisdictional waters of the United States by the Corps of Engineers (preamble to 33 CFR Parts 320 through 330, *Federal Register* Vol. 56, No. 219, 41217).

Plant species lists are compiled for each identified wetland area, focusing on the plant communities within each area. This accumulated floristic data is analyzed using the Floristic Quality Assessment (FQA) methodology, which is an assessment technique for a rapid quality evaluation of vegetation in a defined area. Technical names in the FQA and this report follow the nomenclature of *The National Wetland Plant List: National List* (Lichvar et. al., 2022). A detailed explanation of the Floristic Quality Assessment method is provided in **Appendix IV**.



RESULTS OF THE FIELD INVESTIGATION

Jurisdictional Areas

Area 1 – Emergent Wetland

Data Points X03 and X04

Area 1 (4.29 acres) is located in the southeastern portion of the property and consists of a non-high-quality emergent wetland that appears to be hydrologically isolated.

- Type: Wetland
- Jurisdiction: MWRD
- Quality: Standard Isolated Wetland
- Buffer Requirement: 50'

Vegetation:

- The dominant plant species at Data Point X03 are American Elm (*Ulmus americana*), Common Buckthorn (*Rhamnus cathartica*) and Reed Canary Grass (*Phalaris arundinacea*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.
- The dominant plant species at Data Point X04 are American Elm (*Ulmus americana*), Common Buckthorn (*Rhamnus cathartica*), Common Reed (*Phragmites australis*) and Virginia Creeper (*Parthenocissus quinquefolia*). Greater than 50% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.

The floristic quality data and plant species inventory for Area 1 are provided below.

Conservatism Based Metrics		Additional Metrics	
Mean C (native species)	2.56	Species Richness (all)	44
Mean C (all species)	1.57	Species Richness (native)	27
Mean C (native trees)	1.75	% Non-native	0.39
Mean C (native shrubs)	4.00	Wet Indicator (all)	-0.34
Mean C (native herbaceous)	2.68	Wet Indicator (native)	-0.67
FQAI (native species)	13.28	% hydrophyte (Midwest)	0.75
FQAI (all species)	10.40	% native perennial	0.52
Adjusted FQAI	20.02	% native annual	0.07
% C value 0	0.50	% annual	0.09
% C Value 1-3	0.25	% perennial	0.86
% C value 4-6	0.23		
% C value 7-10	2.56		

Species Acronym	Species Name (Scientific)	Species Name (Synonym)	Common Name	C Value	Midwest WET indicator	WET Indicator (numeric)	Habit	Duration	Nativity
ACENEG	Acer negundo	Acer negundo var. violaceum	Ash-Leaf Maple	0	FAC	FAC	0	Tree	Perennial



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ALISUB	Alisma subcordatum	Alisma subcordatum	American Water-Plantain	3	OBL	OBL	-2	Forb	Perennial
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0	Forb	Perennial
ARIDRA	Arisaema dracontium	Arisaema dracontium	Greendragon	6	FACW	FACW	-1	Forb	Perennial
BIDFRO	Bidens frondosa	Bidens frondosa	Devil's-Pitchfork	1	FACW	FACW	-1	Forb	Annual
BRARAP	Brassica rapa	BRASSICA RAPA	Field Mustard	0	UPL	UPL	2	Forb	Annual
CXBLAN	Carex blanda	Carex blanda	Eastern Woodland Sedge	1	FAC	FAC	0	Sedge	Perennial
CXHYST	Carex hystericina	Carex hystericina	Porcupine Sedge	7	OBL	OBL	-2	Sedge	Perennial
CXSCOP	Carex scoparia	Carex scoparia	Pointed Broom Sedge	5	FACW	FACW	-1	Sedge	Perennial
CIRARV	Cirsium arvense	CIRSIUM ARVENSE	Canadian Thistle	0	FACU	FACU	1	Forb	Perennial
DIPLAC	Dipsacus laciniatus	DIPSACUS LACINIATUS	Cut-Leaf Teasel	0	UPL	FACU	2	Forb	Biennial
EPICOL	Epilobium coloratum	Epilobium coloratum	Purple-Leaf Willowherb	3	OBL	OBL	-2	Forb	Perennial
ERIANN	Erigeron annuus	Erigeron annuus	Eastern Daisy Fleabane	0	FACU	FACU	1	Forb	Biennial
EUPPER	Eupatorium perfoliatum	Eupatorium perfoliatum	Common Boneset	4	OBL	FACW	-2	Forb	Perennial
FRAPEN	Fraxinus pennsylvanica	Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4	FACW	FACW	-1	Tree	Perennial
GALAPA	Galium aparine	Galium spurium	Sticky-Willy	0	FACU	FACU	1	Forb	Annual
GEUCAN	Geum canadense	Geum canadense	White Avens	1	FAC	FAC	0	Forb	Perennial
GLEHED	Glechoma hederacea	GLECHOMA HEDERACEA	Groundivy	0	FACU	FACU	1	Forb	Perennial
GLYSTR	Glyceria striata	Glyceria striata var. stricta	Fowl Manna Grass	4	OBL	OBL	-2	Grass	Perennial
HACVIR	Hackelia virginiana	Hackelia virginiana	Beggar's-Lice Lesser Poverty Rush	1	FACU	FACU	1	Forb	Perennial
JUNTEN	Juncus tenuis	Juncus tenuis	Poverty Rush	0	FAC	FAC	0	Forb	Perennial
LONTAT	Lonicera tatarica	LONICERA TATARICA	Twinsisters	0	FACU	FACU	1	Shrub	Perennial
LYSNUM	Lysimachia nummularia	LYSIMACHIA NUMMULARIA	Creeping-Jenny	0	FACW	FACW	-1	Forb	Perennial
MORALB	Morus alba	MORUS ALBA VAR. TATARICA	White Mulberry	0	FAC	FACU	0	Tree	Perennial
PARQUI	Parthenocissus quinquefolia	Parthenocissus quinquefolia	Virginia-Creeper	4	FACU	FACU	1	Vine	Perennial
PERVIR	Persicaria virginiana	Polygonum virginianum	Jumpseed	4	FAC	FAC	0	Forb	Perennial
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial
PHRAUSU	Phragmites australis ssp. australis	PHRAGMITES AUSTRALIS	Common Reed	0	FACW	FACW	-1	Grass	Perennial



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POPDEL	Populus deltoides	Populus deltoides	Eastern Cottonwood	0	FAC	FAC	0	Tree	Perennial
POTIND	Potentilla indica	DUCHESNEA INDICA	Indian-Strawberry	0	FACU	FACU	1	Forb	Perennial
RANSCE	Ranunculus sceleratus	Ranunculus sceleratus	Cursed Buttercup	4	OBL	OBL	-2	Forb	Annual
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial
ROSMUL	Rosa multiflora	ROSA MULTIFLORA	Rambler Rose	0	FACU	FACU	1	Shrub	Perennial
RUMCRI	Rumex crispus	RUMEX CRISPUS	Curly Dock	0	FAC	FAC	0	Forb	Perennial
SAMCAN	Sambucus nigra ssp. canadensis	Sambucus canadensis	Black Elder	4	FAC	FACW	-1	Shrub	Perennial
SCIATV	Scirpus atrovirens	Scirpus atrovirens	Dark-Green Bulrush	4	OBL	OBL	-2	Sedge	Perennial
SOLDUL	Solanum dulcamara	SOLANUM DULCAMARA	Climbing Nightshade	0	FAC	FAC	0	Vine	Perennial
SOLSEM	Solidago sempervirens	SOLIDAGO SEMPERVIRENS	Seaside Goldenrod	0	FACW	FACW	-1	Forb	Perennial
TOXRAD	Toxicodendron radicans	Rhus radicans	Eastern Poison-Ivy	2	FAC	FAC	0	Vine	Perennial
TYPANG	Typha angustifolia	TYPHA ANGUSTIFOLIA	Narrow-Leaf Cat-Tail	0	OBL	OBL	-2	Forb	Perennial
ULMAME	Ulmus americana	Ulmus americana	American Elm	3	FACW	FACW	-1	Tree	Perennial
URTDIO	Urtica dioica ssp. gracilis	Urtica procera; Urtica gracilis	Tall Nettle	1	FACW	FAC	-1	Forb	Perennial
VIBOPU	Viburnum opulus var. opulus	VIBURNUM OPULUS	Highbush-Cranberry	0	FAC	FACW	0	Shrub	Perennial
VITRIP	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial

Soils:

- The soil profile at Data Point X03 consisted of 0-18 inches of black (10YR 2/1) silt loam. That profile is underlain with 18-24 inches below the surface, of dark gray (10YR 4/1) silty clay loam with 5% gray (10YR 5/1) and 5% dark yellowish brown (10YR 4/6) redoximorphic features. This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and satisfies the soils criterion.
- The soil profile at Data Point X04 consisted of 0-15 inches of black (10YR 2/1) silt loam. That profile is underlain with 15-22 inches below the surface, of gray (10YR 6/1) silty clay loam with 20% brown (10YR 5/3) redoximorphic concentrations. This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and satisfies the soils criterion.

Hydrology:

- A high water table was observed at a depth of 8 inches below the soil surface. The presence of one primary hydrology indicator satisfies the hydrology criterion is satisfied at Data Point X03.
- The presence of two secondary hydrology indicators (D2, Geomorphic Position and D5, FAC-Neutral Test) satisfies the hydrology criterion is satisfied at Data Point X04.

Conclusion: Data Point X03 and X04 satisfies all three criteria; therefore Area 1 qualifies as wetland.



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Area 2 – Exempt Roadside Ditch

Data Point X06

Area 1 (~0.19 acres) is located in the southeastern portion of the property and consists of a roadside ditch.

Vegetation: The dominant plant species at Data Point X06 is Reed Canary Grass (*Phalaris arundinacea*). The dominant species are hydrophytic, so the vegetation criterion is satisfied.

Soils: The soil profile at Data Point X06 consisted of 0-26 inches of black (10YR 2/1) silt loam with 5% dark yellowish brown (10YR 4/4) redoximorphic concentrations. That profile is underlain with 26-30 inches below the surface, of grayish brown (10YR 5/2) silt loam with 5% gray (10YR 6/1) redoximorphic depletions. This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and F6, Redox Dark Surface. This satisfies the soils criterion.

Hydrology: The presence of two secondary wetland hydrology indicators (D2, Geomorphic Position, D5, FAC-Neutral Test) satisfies the hydrology criterion at Data Point X06.

Conclusion: Data Point X06 satisfies all three criteria, however per the MWRD ordinance, Area 2 qualifies as a roadside ditch and is exempt from jurisdiction.

Additional Areas Investigated

Upland

Data Points X01, X02, X05, X07, X08, X09, X10, X11, X12, X13, X14, X15, X16 and X17

This area represents the upland areas located throughout the property.

Vegetation:

- The dominant plant species at Data Point X01 are Red Cedar (*Juniperus virginiana*), American Elm (*Ulmus americana*), Tatarian Honeysuckle (*Lonicera tatarica*), Common Buckthorn (*Rhamnus cathartica*), and Multiflora Rose (*Rosa multiflora*). Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X01.
- The dominant plant species at Data Point X02 are Wafer Ash (*Ptelea trifoliata*), Orchard Grass (*Dactylis glomerata*), Pale Sedge (*Carex granularis*) and Yellow Sweet Clover (*Melilotus officinalis*). Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X02.
- The dominant plant species at Data Point X05 are Tatarian Honeysuckle (*Lonicera tatarica*), Common Buckthorn (*Rhamnus cathartica*), Broad-Leaf Enchanter's Nightshade (*Circaea canadensis*), and Indian-Strawberry (*Potentilla indica*). Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X05.
- The dominant plant species at Data Point X07 are American Elm (*Ulmus americana*), Siberian Elm (*Ulmus pumila*), Common Buckthorn (*Rhamnus cathartica*) and Common Chickweed (*Stellaria media*). Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X07.



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- The dominant plant species at Data Point X08 are Black Walnut (*Juglans nigra*), American Elm (*Ulmus americana*), Common Buckthorn (*Rhamnus cathartica*), Tatarian Honeysuckle (*Lonicera tatarica*) and Virginia Creeper (*Parthenocissus quinquefolia*). Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X08.
- The dominant plant species at Data Point X09 are Black Walnut (*Juglans nigra*), Common Buckthorn (*Rhamnus cathartica*) and Tatarian Honeysuckle (*Lonicera tatarica*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X09.
- The dominant plant species at Data Point X10 Northern White Oak (*Quercus alba*), Chokecherry (*Prunus serotina*), Common Buckthorn (*Rhamnus cathartica*), Beggar's-Lice (*Hackelia virginiana*) and Tatarian Honeysuckle (*Lonicera tatarica*). Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X10.
- The dominant plant species at Data Point X11 are Black Walnut (*Juglans nigra*), Common Chickweed (*Stellaria media*), American Germander (*Teucrium canadense*), and garlic mustard (*Alliaria petiolate*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X11.
- The dominant plant species at Data Point X12 are Black Walnut (*Juglans nigra*), Elderberry (*Sambucus canadensis*), Common Chickweed (*Stellaria media*), American Germander (*Teucrium canadense*), and garlic mustard (*Alliaria petiolate*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X12.
- The dominant plant species at Data Point X13 are Common Buckthorn (*Rhamnus cathartica*) and Tatarian Honeysuckle (*Lonicera tatarica*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X13.
- The dominant plant species at Data Point X14 is Dark Green Rush (*Scirpus atrovirens*). The dominant species is hydrophytic, so the vegetation criterion is satisfied at Data Point X14.
- The dominant plant species at Data Point X15 are Red Cedar (*Juniperus virginiana*), Tatarian Honeysuckle (*Lonicera tatarica*), Queen Anne's Lace (*Daucus carota*), and white clover (*Trifolium repens*). None of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X15.
- The dominant plant species at Data Point X16 are Black Walnut (*Juglans nigra*), Boxelder (*Acer negundo*), Common Buckthorn (*Rhamnus cathartica*), Tatarian Honeysuckle (*Lonicera tatarica*) and Garlic Mustard (*Alliaria petiolata*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X16.
- The dominant plant species at Data Point X17 are Black Walnut (*Juglans nigra*) and Nimbleweed (*Muhlenbergia schreberi*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied at Data Point X17.

Soils:

- The soil profile at Data Point X01 consisted of 0-8 inches of dark yellowish brown (10YR 3/4) silt loam. Soil compaction was observed at 8 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X02 consisted of 0-10 inches of dark yellowish brown (10YR 4/6) silt loam. Soil compaction was observed at 10 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X05 consisted of 0-9 inches of black (10YR 2/1) silt loam. Soil compaction was observed at 9 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.



Aquatic Resource Delineation Report

LTHS 204 WILLOW SPRINGS SITE, WILLOW SPRINGS, COOK COUNTY, ILLINOIS

- The soil profile at Data Point X07 consisted of 0-16 inches of very dark grayish brown (10YR 3/2) silt loam. Soil compaction was observed 16 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X08 consisted of 0-14 inches of dark brown (7.5YR 3/4) silt loam. That profile is underlain 14-17 inches below the surface, of brown (7.5YR 4/4) silt loam. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X09 consisted of 0-15 inches of very dark brown (10YR 2/2) silt loam. That profile is underlain with 15-21 inches below the surface, of dark brown (10YR 3/3) silt loam. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X10 consisted of 0-29 inches of black (10YR 2/1) silt loam. That profile is underlain with 29-34 inches below the surface, of dark gray (10YR 4/1) silt loam with 30% grayish brown (10YR 5/2) redoximorphic depletions. This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and satisfies the soils criterion.
- The soil profile at Data Point X11 consisted of 0-31 inches of black (10YR 2/1) silt loam. Soil compaction was observed at 31 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X12 consisted of 0-16 inches of dark brown (10YR 3/3) silt loam. That profile is underlain with 16-22 inches below the surface, of black (10YR 2/1) silt loam. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X13 consisted of 0-4 inches of dark brown (10YR 3/3) silt loam. Soil compaction was observed at 4 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X14 consisted of 0-7 inches of very dark grayish brown (10YR 3/2) silt loam. That profile is underlain with 7-14 inches below the surface, of strong brown (7.5YR 4/6) silty clay loam with 5% reddish yellow (7.5YR 6/8) redoximorphic concentrations. Soil compaction was observed at 14 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X15 consisted of 0-7 inches of brown (10YR 4/3) silt loam. That profile is underlain with 7-14 inches below the surface, of dark yellowish brown (10YR 4/4) silt loam. Soil restriction was observed at 14 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X16 consisted of 0-13 inches of dark brown (10YR 3/3) silt loam. That profile is underlain with 13-23 inches below the surface, of brown (7.5YR 4/4) silt loam with 5% strong brown (7.5YR 5/6) redoximorphic concentrations. Soil restriction was observed at 23 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.
- The soil profile at Data Point X17 consisted of 0-10 inches of very dark brown (7.5YR 2.5/3) silt loam. That profile is underlain with 10-22 inches below the surface, of brown (7.5YR 4/4) silt loam. Soil restriction was observed at 22 inches below the surface. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

Hydrology:

- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X01.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X02.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X05.



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- One secondary wetland hydrology indicator (D2, Geomorphic Position) was observed, which is not enough to satisfy the hydrology criterion at Data Point X07.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X08.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X09.
- One secondary wetland hydrology indicator (D2, Geomorphic Position) was observed, which is not enough to satisfy the hydrology criterion at Data Point X10.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X11.
- One secondary wetland hydrology indicator (D2, Geomorphic Position) was observed, which is not enough to satisfy the hydrology criterion at Data Point X12.
- One secondary wetland hydrology indicator (D2, Geomorphic Position) was observed, which is not enough to satisfy the hydrology criterion at Data Point X13.
- Three secondary wetland hydrology indicators (D2, Geomorphic Position, D5, FAC-Neutral Test and B6, Surface Soil Cracks) were observed. The presence of two wetland hydrology indicators satisfies the hydrology criterion at Data Point X14.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X15.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X16.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X17.

Conclusion:

- Data Points X01, X02, X05, X07, X08, X09, X11, X12, X13, X15, X16 and X17 fails to satisfy all three criteria and do not qualify as wetland.
- Data Point X10 fails to satisfy the vegetation and hydrology criteria and does not qualify as wetland.
- Data Point X14 fails to satisfy the soils criterion and does not qualify as wetland.



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APPENDIX I

**WETLAND DELINEATION &
ORDINARY HIGH WATER MARK (OHWM)
DATA FORMS**

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-02</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X01</u>
Investigator(s): <u>EM, PL</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Flat</u>	Local relief (concave, convex, none): <u>Microtopography</u>	
Slope (%): _____	Lat: <u>41.7417638</u>	Long: <u>-87.8897193</u>
	Datum: <u>WGS84</u>	
Soil Map Unit Name: <u>Kane silt loam, 0 to 2 percent slopes</u>	NW1 classification: <u>None</u>	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	
Remarks: This location fails all three criteria and does not qualify as wetland.	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>37.50</u> (A/B)																
1. <u>Juniperus virginiana</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Ulmus americana</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
	<u>25.0</u>	<u>=Total Cover</u>		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>5</u></td><td>x 2 = <u>10</u></td></tr><tr><td>FAC species <u>55</u></td><td>x 3 = <u>165</u></td></tr><tr><td>FACU species <u>125</u></td><td>x 4 = <u>500</u></td></tr><tr><td>UPL species <u>5</u></td><td>x 5 = <u>25</u></td></tr><tr><td>Column Totals: <u>190</u> (A)</td><td><u>700.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.68</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>55</u>	x 3 = <u>165</u>	FACU species <u>125</u>	x 4 = <u>500</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>190</u> (A)	<u>700.00</u> (B)	Prevalence Index = B/A = <u>3.68</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>5</u>	x 2 = <u>10</u>																			
FAC species <u>55</u>	x 3 = <u>165</u>																			
FACU species <u>125</u>	x 4 = <u>500</u>																			
UPL species <u>5</u>	x 5 = <u>25</u>																			
Column Totals: <u>190</u> (A)	<u>700.00</u> (B)																			
Prevalence Index = B/A = <u>3.68</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15' radius</u>)																				
1. <u>Lonicera tatarica</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Rhamnus cathartica</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>																	
3. <u>Rosa multiflora</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
	<u>60.0</u>	<u>=Total Cover</u>																		
<u>Herb Stratum</u> (Plot size: <u>5' radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Rhamnus cathartica</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>																	
2. <u>Lonicera tatarica</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>																	
3. <u>Dactylis glomerata</u>	<u>15</u>	<u>N</u>	<u>FACU</u>																	
4. <u>Daucus carota</u>	<u>5</u>	<u>N</u>	<u>UPL</u>																	
5. <u>Trifolium pratense</u>	<u>5</u>	<u>N</u>	<u>FACU</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
	<u>95.0</u>	<u>=Total Cover</u>																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' radius</u>)				Hydrophytic Vegetation Present? Yes _____ No ☒																
1. <u>Parthenocissus quinquefolia</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>																	
2. _____	_____	_____	_____																	
	<u>10.0</u>	<u>=Total Cover</u>																		
Remarks: (Include photo numbers here or on a separate sheet.) Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.																				

SOIL

Sampling Point: X01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR	3/4					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: <u>Compaction</u> Depth (inches): <u>8</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-02
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X02
Investigator(s): EM, PL Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Sideslope Local relief (concave, convex, none): Convex
Slope (%): _____ Lat: 41.7406851 Long: -87.8897370 Datum: WGS84
Soil Map Unit Name: Fox silt loam, 2 to 4 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. <u>Ptelea trifoliata</u> Absolute % Cover <u>10</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. _____ 3. _____ 4. _____ 5. _____ <u>10.0</u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.00</u> (A/B)																	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ <u>0</u> =Total Cover		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>15</u></td><td>x 2 = <u>30</u></td></tr><tr><td>FAC species <u>5</u></td><td>x 3 = <u>15</u></td></tr><tr><td>FACU species <u>80</u></td><td>x 4 = <u>320</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>100</u> (A)</td><td><u>365.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.65</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>15</u>	x 2 = <u>30</u>	FAC species <u>5</u>	x 3 = <u>15</u>	FACU species <u>80</u>	x 4 = <u>320</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>365.00</u> (B)	Prevalence Index = B/A = <u>3.65</u>	
Total % Cover of:			Multiply by:															
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>15</u>	x 2 = <u>30</u>																	
FAC species <u>5</u>	x 3 = <u>15</u>																	
FACU species <u>80</u>	x 4 = <u>320</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>100</u> (A)	<u>365.00</u> (B)																	
Prevalence Index = B/A = <u>3.65</u>																		
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Dactylis glomerata</u> Absolute % Cover <u>45</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. <u>Carex granularis</u> <u>15</u> <u>Y</u> <u>FACW</u> 3. <u>Melilotus officinalis</u> <u>15</u> <u>Y</u> <u>FACU</u> 4. <u>Trifolium pratense</u> <u>10</u> <u>N</u> <u>FACU</u> 5. <u>Poa pratensis</u> <u>5</u> <u>N</u> <u>FAC</u> 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ <u>90.0</u> =Total Cover	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>Problematic Hydrophytic Vegetation¹ (Explain)</u> ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																	
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ <u>0</u> =Total Cover		Hydrophytic Vegetation Present? Yes _____ No ☒																

Remarks: (Include photo numbers here or on a separate sheet.)
Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR	4/6					SIL	5% glass

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ 2 cm Muck (A10) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Iron Monosulfide (A18) ☐ Sandy Mucky Mineral (S1) ☐ 5 cm Mucky Peat or Peat (S3)	☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) ☐ Loamy Mucky Mineral (F1) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: <u>Compaction</u> Depth (inches): <u>10</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-02
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X03
Investigator(s): EM, PL Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave
Slope (%): _____ Lat: 41.739279 Long: -87.886657 Datum: WGS84
Soil Map Unit Name: Kane silt loam, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes ☒ No _____
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes ☒ No _____	
Remarks: This location satisfies all three criteria and qualifies as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. <u>Ulmus americana</u> Absolute % Cover <u>10</u> Dominant Species? <u>Y</u> Indicator Status <u>FACW</u> 2. _____ 3. _____ 4. _____ 5. _____ <u>10.0</u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Rhamnus cathartica</u> Absolute % Cover <u>10</u> Dominant Species? <u>Y</u> Indicator Status <u>FAC</u> 2. _____ 3. _____ 4. _____ 5. _____ <u>10.0</u> =Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>100</u> x 2 = <u>200</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>110</u> (A) <u>230.00</u> (B) Prevalence Index = B/A = <u>2.09</u>
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Phalaris arundinacea</u> Absolute % Cover <u>90</u> Dominant Species? <u>Y</u> Indicator Status <u>FACW</u> 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ <u>90.0</u> =Total Cover		
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ <u>0</u> =Total Cover	Hydrophytic Vegetation Present? Yes ☒ No _____	
Remarks: (Include photo numbers here or on a separate sheet.) All of the dominant species are hydrophytic, so the vegetation criterion is satisfied.		

SOIL

Sampling Point: X03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-18	10YR	2/1					SIL		
18-24	10YR	4/1	10YR	5/1	5	D	M	15% gravel	
18-24			10YR	4/6	5	C	M		

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21) Very
☐ Black Histic (A3)	☐ Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☒ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	
☐ Sandy Gleyed Matrix (S4)	
☐ Sandy Redox (S5)	
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	
☐ Loamy Mucky Mineral (F1)	
☐ Loamy Gleyed Matrix (F2)	
☐ Depleted Matrix (F3)	
☐ Redox Dark Surface (F6)	
☐ Depleted Dark Surface (F7)	
☐ Redox Depressions (F8)	

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

Restrictive Layer (if observed):	Hydric Soil Present?
Type: <u>Compaction</u>	Yes ☒ No ☐
Depth (inches): <u>15</u>	

Remarks:
This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☒ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☒ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
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☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations:				Wetland Hydrology Present?
Surface Water Present?	Yes ☐	No ☒	Depth (inches): <u> </u>	Yes ☒ No ☐
Water Table Present?	Yes ☒	No ☐	Depth (inches): <u>8</u>	
Saturation Present?	Yes ☐	No ☒	Depth (inches): <u> </u>	
(includes capillary fringe)				

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

Remarks:
The presence of a primary wetland hydrology indicator satisfies the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-02</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X04</u>
Investigator(s): <u>EM, PL</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Flat</u>	Local relief (concave, convex, none): <u>Microtopography</u>	
Slope (%): _____	Lat: <u>41.740161</u>	Long: <u>-87.886691</u> Datum: <u>WGS84</u>
Soil Map Unit Name: <u>Muskego and Houghton mucks, 0 to 2 percent slopes</u>		NWI classification: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)		
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____		
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)		

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

Hydrophytic Vegetation Present? Yes ☒ No _____ Hydric Soil Present? Yes ☒ No _____ Wetland Hydrology Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes ☒ No _____
Remarks: This location satisfies all three criteria and qualifies as wetland.	

VEGETATION – Use scientific names of plants.

<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum</th> <th style="text-align: center;">(Plot size: <u>30' radius</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>Ulmus americana</u></td><td></td><td style="text-align: center;">10</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACW</td></tr> <tr><td>2. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">10.0</td> <td colspan="2" style="text-align: center;">=Total Cover</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum</th> <th style="text-align: center;">(Plot size: <u>15' radius</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>Rhamnus cathartica</u></td><td></td><td style="text-align: center;">80</td><td style="text-align: center;">Y</td><td style="text-align: center;">FAC</td></tr> <tr><td>2. <u>Lonicera tatarica</u></td><td></td><td style="text-align: center;">15</td><td style="text-align: center;">N</td><td style="text-align: center;">FACU</td></tr> <tr><td>3. <u>Fraxinus pennsylvanica</u></td><td></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">FACW</td></tr> <tr><td>4. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">105.0</td> <td colspan="2" style="text-align: center;">=Total Cover</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Herb Stratum</th> <th style="text-align: center;">(Plot size: <u>5' radius</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. <u>Phragmites australis</u></td><td></td><td style="text-align: center;">30</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACW</td></tr> <tr><td>2. <u>Parthenocissus quinquefolia</u></td><td></td><td style="text-align: center;">15</td><td style="text-align: center;">Y</td><td style="text-align: center;">FACU</td></tr> <tr><td>3. <u>Toxicodendron radicans</u></td><td></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">FAC</td></tr> <tr><td>4. <u>Eupatorium perfoliatum</u></td><td></td><td style="text-align: center;">10</td><td style="text-align: center;">N</td><td style="text-align: center;">OBL</td></tr> <tr><td>5. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>9. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>10. _____</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">65.0</td> <td colspan="2" style="text-align: center;">=Total Cover</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th style="text-align: center;">(Plot size: <u>30' radius</u>)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. _____</td><td></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="2"></td> <td style="text-align: center;">0</td> <td colspan="2" style="text-align: center;">=Total Cover</td> </tr> </table>	Tree Stratum	(Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Ulmus americana</u>		10	Y	FACW	2. _____					3. _____					4. _____					5. _____							10.0	=Total Cover		Sapling/Shrub Stratum	(Plot size: <u>15' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Rhamnus cathartica</u>		80	Y	FAC	2. <u>Lonicera tatarica</u>		15	N	FACU	3. <u>Fraxinus pennsylvanica</u>		10	N	FACW	4. _____					5. _____							105.0	=Total Cover		Herb Stratum	(Plot size: <u>5' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1. <u>Phragmites australis</u>		30	Y	FACW	2. <u>Parthenocissus quinquefolia</u>		15	Y	FACU	3. <u>Toxicodendron radicans</u>		10	N	FAC	4. <u>Eupatorium perfoliatum</u>		10	N	OBL	5. _____					6. _____					7. _____					8. _____					9. _____					10. _____							65.0	=Total Cover		Woody Vine Stratum	(Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	1. _____					2. _____							0	=Total Cover		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>90</u></td> <td>x 3 = <u>270</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>180</u> (A)</td> <td><u>500.00</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.78</u></td> </tr> </table> Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation ☒ <u>2</u> - Dominance Test is >50% ☒ <u>3</u> - Prevalence Index is ≤3.0¹ <u>4</u> - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes ☒ No _____	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>90</u>	x 3 = <u>270</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>180</u> (A)	<u>500.00</u> (B)	Prevalence Index = B/A = <u>2.78</u>	
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Column Totals: <u>180</u> (A)	<u>500.00</u> (B)																																																																																																																																																																						
Prevalence Index = B/A = <u>2.78</u>																																																																																																																																																																							
Remarks: (Include photo numbers here or on a separate sheet.) Greater than 50% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.																																																																																																																																																																							

SOIL

Sampling Point: X04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-15	10YR	2/1							SIL	
15-22	10YR	6/1		10YR	5/3	20	C	M	SIL	10% gravel

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21) Very
☐ Black Histic (A3)	☐ Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☒ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	

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

Restrictive Layer (if observed): Type: <u>Compaction</u> Depth (inches): <u>15</u>	Hydric Soil Present? Yes ☒ No ☐
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Remarks:
This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): Water Table Present? Yes ☐ No ☒ Depth (inches): Saturation Present? Yes ☐ No ☒ Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The presence of two secondary wetland hydrology indicators satisfies the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-02
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X05
Investigator(s): EM, PL Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Sideslope Local relief (concave, convex, none): Convex
Slope (%): _____ Lat: 41.740660 Long: -87.886916 Datum: WGS84
Soil Map Unit Name: Muskego and Houghton mucks, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 0 =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.00</u> (A/B)																	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Lonicera tatarica</u> 70 Y FACU 2. <u>Rhamnus cathartica</u> 20 Y FAC 3. _____ 4. _____ 5. _____ 90.0 =Total Cover		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>0</u></td><td>x 2 = <u>0</u></td></tr><tr><td>FAC species <u>25</u></td><td>x 3 = <u>75</u></td></tr><tr><td>FACU species <u>105</u></td><td>x 4 = <u>420</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>130</u> (A)</td><td><u>495.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.81</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>105</u>	x 4 = <u>420</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>130</u> (A)	<u>495.00</u> (B)	Prevalence Index = B/A = <u>3.81</u>	
Total % Cover of:			Multiply by:															
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>25</u>	x 3 = <u>75</u>																	
FACU species <u>105</u>	x 4 = <u>420</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>130</u> (A)	<u>495.00</u> (B)																	
Prevalence Index = B/A = <u>3.81</u>																		
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Circaea canadensis</u> 15 Y FACU 2. <u>Potentilla indica</u> 10 Y FACU 3. <u>Geum canadense</u> 5 N FAC 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 30.0 =Total Cover																		
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. <u>Parthenocissus quinquefolia</u> 10 Y FACU 2. _____ 10.0 =Total Cover	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																	

Hydrophytic Vegetation Present? Yes _____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-9	10YR	2/1					SIL	Tried pulling soil at 4 locations, hit rock	

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21) Very
☐ Black Histic (A3)	☐ Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	
☐ Sandy Gleyed Matrix (S4)	
☐ Sandy Redox (S5)	
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	
☐ Loamy Mucky Mineral (F1)	
☐ Loamy Gleyed Matrix (F2)	
☐ Depleted Matrix (F3)	
☐ Redox Dark Surface (F6)	
☐ Depleted Dark Surface (F7)	
☐ Redox Depressions (F8)	

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

Restrictive Layer (if observed):	Hydric Soil Present?
Type: <u>Compaction/gravel</u> Depth (inches): <u>9</u>	Yes ☐ No ☒

Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations:				Wetland Hydrology Present? Yes ☐ No ☒
Surface Water Present?	Yes ☐ No ☒	Depth (inches):		
Water Table Present?	Yes ☐ No ☒	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes ☐ No ☒	Depth (inches):		

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

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-02</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X06</u>
Investigator(s): <u>EM, PL</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Ditch</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): _____	Lat: <u>41.7391688</u>	Long: <u>-87.8866239</u> Datum: <u>WGS84</u>
Soil Map Unit Name: <u>Kane silt loam, 0 to 2 percent slopes</u>		NWI classification: <u>None</u>

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes ☒ No _____
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes ☒ No _____	
Remarks: This location satisfies all three criteria and qualifies as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	<u>0</u>	=Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	<u>0</u>	=Total Cover	
Herb Stratum (Plot size: <u>5' radius</u>)			
1. <u>Phalaris arundinacea</u>	<u>80</u>	<u>Y</u>	<u>FACW</u>
2. <u>Rumex crispus</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
3. <u>Eleocharis acicularis</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
	<u>95.0</u>	=Total Cover	
Woody Vine Stratum (Plot size: <u>30' radius</u>)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
	<u>0</u>	=Total Cover	

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>5</u>	x 1 = <u>5</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>95</u> (A)	<u>195.00</u> (B)
Prevalence Index = B/A = <u>2.05</u>	

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☒ 3 - Prevalence Index is ≤3.0¹

☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Hydrophytic Vegetation Present? Yes ☒ No _____

Remarks: (Include photo numbers here or on a separate sheet.)
The dominant species is hydrophytic, so the vegetation criterion is satisfied.

SOIL

Sampling Point: X06

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-26	10YR 2/1		10YR 4/4	5	C	M		SIL	10% gravel	
26-30	10YR 5/2		10YR 6/1	5	D	M		SIL		

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☒ Thick Dark Surface (A12) ☒ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: <u>Compaction</u> Depth (inches): <u>28</u>	Hydric Soil Present? Yes ☒ No ☐
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Remarks:
This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and F6, Redox Dark Surface. This satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No ☐
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The presence of two secondary wetland hydrology indicators satisfies the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-04</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X07</u>
Investigator(s): <u>EM, PL, LW</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Flat</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): _____	Lat: <u>41.7457843</u>	Long: <u>-87.8906462</u>
	Datum: <u>WGS84</u>	
Soil Map Unit Name: <u>Kane silt loam, 0 to 2 percent slopes</u>	NWI classification: <u>None</u>	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	
Remarks: This location fails all three criteria and does not qualify as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)																
1. <u>Ulmus americana</u>	<u>45</u>	<u>Y</u>	<u>FACW</u>																	
2. <u>Ulmus pumila</u>	<u>20</u>	<u>Y</u>	<u>UPL</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>65.0</u> =Total Cover				Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>45</u></td><td>x 2 = <u>90</u></td></tr><tr><td>FAC species <u>50</u></td><td>x 3 = <u>150</u></td></tr><tr><td>FACU species <u>75</u></td><td>x 4 = <u>300</u></td></tr><tr><td>UPL species <u>20</u></td><td>x 5 = <u>100</u></td></tr><tr><td>Column Totals: <u>190</u> (A)</td><td><u>640.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.37</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>50</u>	x 3 = <u>150</u>	FACU species <u>75</u>	x 4 = <u>300</u>	UPL species <u>20</u>	x 5 = <u>100</u>	Column Totals: <u>190</u> (A)	<u>640.00</u> (B)	Prevalence Index = B/A = <u>3.37</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>45</u>	x 2 = <u>90</u>																			
FAC species <u>50</u>	x 3 = <u>150</u>																			
FACU species <u>75</u>	x 4 = <u>300</u>																			
UPL species <u>20</u>	x 5 = <u>100</u>																			
Column Totals: <u>190</u> (A)	<u>640.00</u> (B)																			
Prevalence Index = B/A = <u>3.37</u>																				
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Rhamnus cathartica</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>20.0</u> =Total Cover																				
Herb Stratum (Plot size: <u>5' radius</u>)				Hydrophytic Vegetation Present? Yes _____ No ☒																
1. <u>Stellaria media</u>	<u>65</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Alliaria petiolata</u>	<u>20</u>	<u>N</u>	<u>FAC</u>																	
3. <u>Hackelia virginiana</u>	<u>10</u>	<u>N</u>	<u>FACU</u>																	
4. <u>Viola sororia</u>	<u>10</u>	<u>N</u>	<u>FAC</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____	Remarks: (Include photo numbers here or on a separate sheet.) Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.																
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
<u>105.0</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30' radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
<u>0</u> =Total Cover																				

SOIL

Sampling Point: X07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR	3/2					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ 2 cm Muck (A10) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Iron Monosulfide (A18) ☐ Sandy Mucky Mineral (S1) ☐ 5 cm Mucky Peat or Peat (S3)	☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) ☐ Loamy Mucky Mineral (F1) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: <u>Impenetrable past, rock</u> Depth (inches): <u>16</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The presence of one secondary wetland hydrology indicator is not enough to satisfy the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-04</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X08</u>
Investigator(s): <u>EM, PL, LW</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Depression</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): _____	Lat: <u>41.745263</u>	Long: <u>-87.889759</u>
	Datum: <u>WGS84</u>	
Soil Map Unit Name: <u>Kane silt loam, 0 to 2 percent slopes</u>	NW1 classification: <u>None</u>	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	
Remarks: This location fails all three criteria and does not qualify as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)																
1. <u>Juglans nigra</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Ulmus americana</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
	<u>20.0</u>	<u>=Total Cover</u>		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>10</u></td><td>x 2 = <u>20</u></td></tr><tr><td>FAC species <u>60</u></td><td>x 3 = <u>180</u></td></tr><tr><td>FACU species <u>75</u></td><td>x 4 = <u>300</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>145</u> (A)</td><td><u>500.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.45</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>60</u>	x 3 = <u>180</u>	FACU species <u>75</u>	x 4 = <u>300</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>145</u> (A)	<u>500.00</u> (B)	Prevalence Index = B/A = <u>3.45</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>60</u>	x 3 = <u>180</u>																			
FACU species <u>75</u>	x 4 = <u>300</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>145</u> (A)	<u>500.00</u> (B)																			
Prevalence Index = B/A = <u>3.45</u>																				
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)																				
1. <u>Rhamnus cathartica</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>																	
2. <u>Lonicera tatarica</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
	<u>70.0</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>5' radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Lonicera tatarica</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Parthenocissus quinquefolia</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>																	
3. <u>Geum canadense</u>	<u>10</u>	<u>N</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
	<u>55.0</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>30' radius</u>)				Hydrophytic Vegetation Present? Yes _____ No ☒																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
	<u>0</u>	<u>=Total Cover</u>																		
Remarks: (Include photo numbers here or on a separate sheet.) Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.																				

SOIL

Sampling Point: X08

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	7.5YR	3/4					SIL	
14-17	7.5YR	4/4					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ 2 cm Muck (A10) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Iron Monosulfide (A18) ☐ Sandy Mucky Mineral (S1) ☐ 5 cm Mucky Peat or Peat (S3)	☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) ☐ Loamy Mucky Mineral (F1) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes _____ No ☒ Depth (inches): _____ Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-04
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X09
Investigator(s): EM , PL , LW Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Concave
Slope (%): _____ Lat: 41.7446853 Long: -87.8883940 Datum: WGS84
Soil Map Unit Name: Kane silt loam, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. <u>Juglans nigra</u> Absolute % Cover <u>5</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. _____ 3. _____ 4. _____ 5. _____ _____ =Total Cover <u>5.0</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Rhamnus cathartica</u> Absolute % Cover <u>85</u> Dominant Species? <u>Y</u> Indicator Status <u>FAC</u> 2. <u>Lonicera tatarica</u> Absolute % Cover <u>15</u> Dominant Species? <u>N</u> Indicator Status <u>FACU</u> 3. _____ 4. _____ 5. _____ _____ =Total Cover <u>100.0</u>		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>125</u> x 3 = <u>375</u> FACU species <u>50</u> x 4 = <u>200</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>175</u> (A) <u>575.00</u> (B) Prevalence Index = B/A = <u>3.29</u>
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Rhamnus cathartica</u> Absolute % Cover <u>30</u> Dominant Species? <u>Y</u> Indicator Status <u>FAC</u> 2. <u>Lonicera tatarica</u> Absolute % Cover <u>25</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 3. <u>Toxicodendron radicans</u> Absolute % Cover <u>10</u> Dominant Species? <u>N</u> Indicator Status <u>FAC</u> 4. <u>Dactylis glomerata</u> Absolute % Cover <u>5</u> Dominant Species? <u>N</u> Indicator Status <u>FACU</u> 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ _____ =Total Cover <u>70.0</u>		
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ _____ =Total Cover <u>0</u>	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	

Hydrophytic Vegetation Present? Yes _____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X09

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-15	10YR	2/2					SIL	
15-21	10YR	3/3					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes _____ No ☒ Depth (inches): _____ Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-04</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X10</u>
Investigator(s): <u>EM, PL, LW</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Flat</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): _____	Lat: <u>41.745889</u>	Long: <u>-87.887156</u> Datum: <u>WGS84</u>
Soil Map Unit Name: <u>Fox silt loam, 2 to 4 percent slopes</u>		NWI classification: <u>None</u>

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes ☒ No _____	
Wetland Hydrology Present? Yes _____ No ☒	
Remarks: This location fails the vegetation and hydrology criteria and does not qualify as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.00</u> (A/B)																
1. <u>Quercus alba</u>	<u>45</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Prunus serotina</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>65.0</u> =Total Cover				Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>0</u></td><td>x 2 = <u>0</u></td></tr><tr><td>FAC species <u>105</u></td><td>x 3 = <u>315</u></td></tr><tr><td>FACU species <u>130</u></td><td>x 4 = <u>520</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>235</u> (A)</td><td><u>835.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.55</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>105</u>	x 3 = <u>315</u>	FACU species <u>130</u>	x 4 = <u>520</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>235</u> (A)	<u>835.00</u> (B)	Prevalence Index = B/A = <u>3.55</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>105</u>	x 3 = <u>315</u>																			
FACU species <u>130</u>	x 4 = <u>520</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>235</u> (A)	<u>835.00</u> (B)																			
Prevalence Index = B/A = <u>3.55</u>																				
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)																				
1. <u>Rhamnus cathartica</u>	<u>75</u>	<u>Y</u>	<u>FAC</u>																	
2. <u>Lonicera tatarica</u>	<u>10</u>	<u>N</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>85.0</u> =Total Cover																				
Herb Stratum (Plot size: <u>5' radius</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Hackelia virginiana</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>																	
2. <u>Lonicera tatarica</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>																	
3. <u>Alliaria petiolata</u>	<u>15</u>	<u>N</u>	<u>FAC</u>																	
4. <u>Viola sororia</u>	<u>10</u>	<u>N</u>	<u>FAC</u>																	
5. <u>Geum canadense</u>	<u>5</u>	<u>N</u>	<u>FAC</u>																	
6. <u>Galium aparine</u>	<u>5</u>	<u>N</u>	<u>FACU</u>																	
7. <u>Parthenocissus quinquefolia</u>	<u>5</u>	<u>N</u>	<u>FACU</u>																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
<u>85.0</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30' radius</u>)				Hydrophytic Vegetation Present? Yes _____ No ☒																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
<u>0</u> =Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.) Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.																				

SOIL

Sampling Point: X10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-29	10YR 2/1						SIL		
29-34	10YR 4/1		10YR 5/2	30	D	M	SIL		

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☒ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ☒ No ☐
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Remarks:
This profile exhibits hydric soil field indicator A12, Thick Dark Surface, and satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The presence of one secondary wetland hydrology indicator is not enough to satisfy the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-04
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X11
Investigator(s): EM, PL, LW Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Concave
Slope (%): _____ Lat: 41.744463 Long: -87.887415 Datum: WGS84
Soil Map Unit Name: Kane silt loam, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. <u>Juglans nigra</u> Absolute % Cover <u>90</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. _____ 3. _____ 4. _____ 5. _____ <u>90.0</u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ <u>0</u> =Total Cover	
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Stellaria media</u> <u>45</u> <u>Y</u> <u>FACU</u> 2. <u>Teucrium canadense</u> <u>20</u> <u>Y</u> <u>FACW</u> 3. <u>Alliaria petiolata</u> <u>20</u> <u>Y</u> <u>FAC</u> 4. <u>Viola sororia</u> <u>15</u> <u>N</u> <u>FAC</u> 5. <u>Geum canadense</u> <u>10</u> <u>N</u> <u>FAC</u> 6. <u>Hackelia virginiana</u> <u>5</u> <u>N</u> <u>FACU</u> 7. <u>Lonicera morrowii</u> <u>5</u> <u>N</u> <u>FACU</u> 8. <u>Carex blanda</u> <u>5</u> <u>N</u> <u>FAC</u> 9. _____ 10. _____ <u>125.0</u> =Total Cover	
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ <u>0</u> =Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>145</u> x 4 = <u>580</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>215</u> (A) <u>770.00</u> (B) Prevalence Index = B/A = <u>3.58</u>
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Hydrophytic Vegetation Present? Yes _____ No ☒	

Remarks: (Include photo numbers here or on a separate sheet.)
Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-31	10YR	2/1					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: <u>Compaction/rock</u> Depth (inches): <u>31</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): <u> </u> Water Table Present? Yes ☐ No ☒ Depth (inches): <u> </u> Saturation Present? Yes ☐ No ☒ Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-04
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X12
Investigator(s): EM, PL, LW Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): Concave
Slope (%): _____ Lat: 41.743426 Long: -87.887436 Datum: WGS84
Soil Map Unit Name: Fox silt loam, 2 to 4 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. <u>Juglans nigra</u> Absolute % Cover <u>70</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. _____ 3. _____ 4. _____ 5. _____ <u>70.0</u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)																	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Sambucus canadensis</u> Absolute % Cover <u>5</u> Dominant Species? <u>Y</u> Indicator Status <u>FACW</u> 2. <u>Lonicera tatarica</u> Absolute % Cover <u>5</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 3. _____ 4. _____ 5. _____ <u>10.0</u> =Total Cover		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>45</u></td><td>x 2 = <u>90</u></td></tr><tr><td>FAC species <u>40</u></td><td>x 3 = <u>120</u></td></tr><tr><td>FACU species <u>135</u></td><td>x 4 = <u>540</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>220</u> (A)</td><td><u>750.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.41</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>45</u>	x 2 = <u>90</u>	FAC species <u>40</u>	x 3 = <u>120</u>	FACU species <u>135</u>	x 4 = <u>540</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>220</u> (A)	<u>750.00</u> (B)	Prevalence Index = B/A = <u>3.41</u>	
Total % Cover of:			Multiply by:															
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>45</u>	x 2 = <u>90</u>																	
FAC species <u>40</u>	x 3 = <u>120</u>																	
FACU species <u>135</u>	x 4 = <u>540</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>220</u> (A)	<u>750.00</u> (B)																	
Prevalence Index = B/A = <u>3.41</u>																		
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Stellaria media</u> Absolute % Cover <u>50</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. <u>Teucrium canadense</u> Absolute % Cover <u>40</u> Dominant Species? <u>Y</u> Indicator Status <u>FACW</u> 3. <u>Alliaria petiolata</u> Absolute % Cover <u>30</u> Dominant Species? <u>Y</u> Indicator Status <u>FAC</u> 4. <u>Geum canadense</u> Absolute % Cover <u>10</u> Dominant Species? <u>N</u> Indicator Status <u>FAC</u> 5. <u>Galium aparine</u> Absolute % Cover <u>10</u> Dominant Species? <u>N</u> Indicator Status <u>FACU</u> 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ <u>140.0</u> =Total Cover																		
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ <u>0</u> =Total Cover	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																	

Hydrophytic Vegetation Present? Yes _____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR	3/3					SIL	
16-22	10YR	2/1					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes _____ No ☒ Depth (inches): _____ Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The presence of one secondary wetland hydrology indicator is not enough to satisfy the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-04
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X13
Investigator(s): EM, PL, LW Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Ditch Local relief (concave, convex, none): Concave
Slope (%): _____ Lat: 41.743307 Long: -87.886865 Datum: WGS84
Soil Map Unit Name: Fox silt loam, 2 to 4 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 0 =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Rhamnus cathartica</u> <u>100</u> <u>Y</u> <u>FAC</u> 2. _____ 3. _____ 4. _____ 5. _____ 100.0 =Total Cover		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>105</u> x 3 = <u>315</u> FACU species <u>25</u> x 4 = <u>100</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>130</u> (A) <u>415.00</u> (B) Prevalence Index = B/A = <u>3.19</u>
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Lonicera tatarica</u> <u>25</u> <u>Y</u> <u>FACU</u> 2. <u>Alliaria petiolata</u> <u>5</u> <u>N</u> <u>FAC</u> 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 30.0 =Total Cover		
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ 0 =Total Cover	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	

Hydrophytic Vegetation Present? Yes _____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR	3/3					SIL	

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21) Very
☐ Black Histic (A3)	☐ Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	

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

Restrictive Layer (if observed): Type: <u>Compaction/rock</u> Depth (inches): <u>4</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): <u> </u> Water Table Present? Yes ☐ No ☒ Depth (inches): <u> </u> Saturation Present? Yes ☐ No ☒ Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The presence of one secondary wetland hydrology indicator is not enough to satisfy the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-04</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X14</u>
Investigator(s): <u>EM, PL, LW</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Ditch</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): _____	Lat: <u>41.742510</u>	Long: <u>-87.889090</u> Datum: <u>WGS84</u>
Soil Map Unit Name: <u>Fox silt loam, 2 to 4 percent slopes</u>		NWI classification: <u>None</u>

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes ☒ No _____	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes ☒ No _____	
Remarks: This location fails the soils criterion and does not qualify as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	<u>0</u>	=Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	<u>0</u>	=Total Cover	
Herb Stratum (Plot size: <u>5' radius</u>)			
1. <u>Scirpus atrovirens</u>	<u>80</u>	<u>Y</u>	<u>OBL</u>
2. <u>Rhamnus cathartica</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
	<u>90.0</u>	=Total Cover	
Woody Vine Stratum (Plot size: <u>30' radius</u>)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
	<u>0</u>	=Total Cover	

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>80</u>	x 1 = <u>80</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>90</u> (A)	<u>110.00</u> (B)
Prevalence Index = B/A = <u>1.22</u>	

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is >50%

☐ 3 - Prevalence Index is ≤3.0¹

☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Hydrophytic Vegetation Present? Yes ☒ No _____

Remarks: (Include photo numbers here or on a separate sheet.)
The dominant species is hydrophytic, so the vegetation criterion is satisfied.

SOIL

Sampling Point: X14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-7	10YR	3/2					SIL		
7-14	7.5YR	4/6	7.5YR	6/8	5	C	M	SICL	
7-14	10YR	4/6						SICL	

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

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)	☐ Iron-Manganese Masses (F12)	
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)	☐ Red Parent Material (F21) Very	
☐ Black Histic (A3)	☐ Stripped Matrix (S6)	☐ Shallow Dark Surface (F22)	
☐ Hydrogen Sulfide (A4)	☐ Dark Surface (S7)	☐ Other (Explain in Remarks)	
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1)		
☐ 2 cm Muck (A10)	☐ Loamy Gleyed Matrix (F2)		
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)		
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)		
☐ Iron Monosulfide (A18)	☐ Depleted Dark Surface (F7)		
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)		
☐ 5 cm Mucky Peat or Peat (S3)			

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

Restrictive Layer (if observed):	Hydric Soil Present?
Type: <u>compaction</u> Depth (inches): <u>14</u>	Yes ☐ No ☒

Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☒ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☒ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations:				Wetland Hydrology Present? Yes ☒ No ☐
Surface Water Present?	Yes ☐ No ☒	Depth (inches):		
Water Table Present?	Yes ☐ No ☒	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes ☐ No ☒	Depth (inches):		

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

Remarks:
The presence of two secondary wetland hydrology indicators satisfies the hydrology criterion.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-13
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X15
Investigator(s): EM Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None
Slope (%): _____ Lat: 41.741298 Long: -87.888801 Datum: WGS84
Soil Map Unit Name: Kane silt loam, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 0 =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)																	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Juniperus virginiana</u> 10 Y FACU 2. <u>Lonicera tatarica</u> 5 Y FACU 3. _____ 4. _____ 5. _____ 15.0 =Total Cover		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>0</u></td><td>x 2 = <u>0</u></td></tr><tr><td>FAC species <u>0</u></td><td>x 3 = <u>0</u></td></tr><tr><td>FACU species <u>85</u></td><td>x 4 = <u>340</u></td></tr><tr><td>UPL species <u>35</u></td><td>x 5 = <u>175</u></td></tr><tr><td>Column Totals: <u>120</u> (A)</td><td><u>515.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>4.29</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>85</u>	x 4 = <u>340</u>	UPL species <u>35</u>	x 5 = <u>175</u>	Column Totals: <u>120</u> (A)	<u>515.00</u> (B)	Prevalence Index = B/A = <u>4.29</u>	
Total % Cover of:			Multiply by:															
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>0</u>	x 3 = <u>0</u>																	
FACU species <u>85</u>	x 4 = <u>340</u>																	
UPL species <u>35</u>	x 5 = <u>175</u>																	
Column Totals: <u>120</u> (A)	<u>515.00</u> (B)																	
Prevalence Index = B/A = <u>4.29</u>																		
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Daucus carota</u> 30 Y UPL 2. <u>Trifolium repens</u> 30 Y FACU 3. <u>Medicago lupulina</u> 15 N FACU 4. <u>Lolium perenne</u> 15 N FACU 5. <u>Solidago canadensis</u> 10 N FACU 6. <u>Leucanthemum vulgare</u> 5 N UPL 7. _____ 8. _____ 9. _____ 10. _____ 105.0 =Total Cover																		
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ 0 =Total Cover	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																	

Hydrophytic Vegetation Present? Yes _____ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
None of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

SOIL

Sampling Point: X15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR	4/3					SIL	
7-14	7.5YR	4/4					SIL	

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4) ☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Black Histic (A3) ☐ Stripped Matrix (S6) ☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7) ☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8) ☐ 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: <u>Rock/gravel</u> Depth (inches): <u>14</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: LTHS 204 Willow Springs Site City/County: Cook County Sampling Date: 2026-06-13
Applicant/Owner: Lyons Township High School District 204 State: Illinois Sampling Point: X16
Investigator(s): EM Section, Township, Range: sec 32 T038N R012E
Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None
Slope (%): _____ Lat: 41.743104 Long: -87.890159 Datum: WGS84
Soil Map Unit Name: Fox silt loam, 2 to 4 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	

Remarks:
This location fails all three criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>) 1. <u>Juglans nigra</u> Absolute % Cover <u>10</u> Dominant Species? <u>Y</u> Indicator Status <u>FACU</u> 2. <u>Acer negundo</u> <u>5</u> <u>Y</u> <u>FAC</u> 3. _____ 4. _____ 5. _____ <u>15.0</u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)																	
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>) 1. <u>Rhamnus cathartica</u> <u>70</u> <u>Y</u> <u>FAC</u> 2. <u>Lonicera tatarica</u> <u>50</u> <u>Y</u> <u>FACU</u> 3. _____ 4. _____ 5. _____ <u>120.0</u> =Total Cover		Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>0</u></td><td>x 2 = <u>0</u></td></tr><tr><td>FAC species <u>95</u></td><td>x 3 = <u>285</u></td></tr><tr><td>FACU species <u>75</u></td><td>x 4 = <u>300</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>170</u> (A)</td><td><u>585.00</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>3.44</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>95</u>	x 3 = <u>285</u>	FACU species <u>75</u>	x 4 = <u>300</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>170</u> (A)	<u>585.00</u> (B)	Prevalence Index = B/A = <u>3.44</u>	
Total % Cover of:			Multiply by:															
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>95</u>	x 3 = <u>285</u>																	
FACU species <u>75</u>	x 4 = <u>300</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>170</u> (A)	<u>585.00</u> (B)																	
Prevalence Index = B/A = <u>3.44</u>																		
Herb Stratum (Plot size: <u>5' radius</u>) 1. <u>Alliaria petiolata</u> <u>20</u> <u>Y</u> <u>FAC</u> 2. <u>Lonicera tatarica</u> <u>10</u> <u>Y</u> <u>FACU</u> 3. <u>Rosa multiflora</u> <u>5</u> <u>N</u> <u>FACU</u> 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ <u>35.0</u> =Total Cover	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>Problematic Hydrophytic Vegetation¹ (Explain)</u> ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																	
Woody Vine Stratum (Plot size: <u>30' radius</u>) 1. _____ 2. _____ <u>0</u> =Total Cover		Hydrophytic Vegetation Present? Yes _____ No ☒																
Remarks: (Include photo numbers here or on a separate sheet.) Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.																		

SOIL

Sampling Point: X16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-13	10YR	3/3							SIL	
13-23	7.5YR	4/4		7.5YR	5/6	5	C	M	SIL	5% gravel

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

Hydric Soil Indicators: ☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ 2 cm Muck (A10) ☐ Depleted Below Dark Surface (A11) ☐ Thick Dark Surface (A12) ☐ Iron Monosulfide (A18) ☐ Sandy Mucky Mineral (S1) ☐ 5 cm Mucky Peat or Peat (S3)	☐ Sandy Gleyed Matrix (S4) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) ☐ Loamy Mucky Mineral (F1) ☐ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: ☐ Iron-Manganese Masses (F12) ☐ Red Parent Material (F21) Very ☐ Shallow Dark Surface (F22) ☐ Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: <u>Gravel</u> Depth (inches): <u>23</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-COR	OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>LTHS 204 Willow Springs Site</u>	City/County: <u>Cook County</u>	Sampling Date: <u>2026-06-13</u>
Applicant/Owner: <u>Lyons Township High School District 204</u>	State: <u>Illinois</u>	Sampling Point: <u>X17</u>
Investigator(s): <u>EM</u>	Section, Township, Range: <u>sec 32 T038N R012E</u>	
Landform (hillside, terrace, etc.): <u>Flat</u>	Local relief (concave, convex, none): <u>None</u>	
Slope (%): _____	Lat: <u>41.744041</u>	Long: <u>-87.889747</u>
		Datum: <u>WGS84</u>
Soil Map Unit Name: <u>Fox silt loam, 2 to 4 percent slopes</u>	NWI classification: <u>None</u>	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

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

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

Hydrophytic Vegetation Present? Yes _____ No ☒	Is the Sampled Area within a Wetland? Yes _____ No ☒
Hydric Soil Present? Yes _____ No ☒	
Wetland Hydrology Present? Yes _____ No ☒	
Remarks: This location fails all three criteria and does not qualify as wetland.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Juglans nigra</u>	<u>60</u>	<u>Y</u>	<u>FACU</u>
2. <u>Gleditsia triacanthos</u>	<u>15</u>	<u>N</u>	<u>FACU</u>
3. <u>Juniperus virginiana</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	<u>80.0</u> =Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
	<u>0</u> =Total Cover		
Herb Stratum (Plot size: <u>5' radius</u>)			
1. <u>Muhlenbergia schreberi</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>
2. <u>Circaea lutetiana</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
3. <u>Dactylis glomerata</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u>Iris virginica</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
5. <u>Hackelia virginiana</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
6. <u>Juncus tenuis</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
7. <u>Geum canadense</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
	<u>120.0</u> =Total Cover		
Woody Vine Stratum (Plot size: <u>30' radius</u>)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
	<u>0</u> =Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.			

Dominance Test worksheet:
Number of Dominant Species That
Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species
Across All Strata: 2 (B)
Percent of Dominant Species That
Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>5</u>	x 1 = <u>5</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>90</u>	x 3 = <u>270</u>
FACU species <u>105</u>	x 4 = <u>420</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>200</u> (A)	<u>695.00</u> (B)
Prevalence Index = B/A = <u>3.48</u>	

Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation
2 - Dominance Test is >50%
3 - Prevalence Index is ≤3.0¹
4 - Morphological Adaptations¹ (Provide supporting
data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.

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

SOIL

Sampling Point: X17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	7.5YR	2.5/3					SIL	
10-22	7.5YR	4/4					SIL	

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21) Very
☐ Black Histic (A3)	☐ Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	

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

Restrictive Layer (if observed): Type: <u>Compaction</u> Depth (inches): <u>22</u>	Hydric Soil Present? Yes ☐ No ☒
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Remarks:
The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☐ No ☒
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied.

APPENDIX II

REPRESENTATIVE PHOTOGRAPHS



PHOTO #1

Date: June 2, 2026

View near Data Point X01, facing west.



PHOTO #2

Date: June 2, 2026

View near Data Point X02, facing east.



PHOTO #3

Date: June 2, 2026

View of Area 1, near Data Point X03. Facing northwest.



PHOTO #4

Date: June 2, 2026

View of Area 1, near Data Point X04. Facing south.



PHOTO #5

Date: June 2, 2026

View near Data Point X05, facing northeast.



PHOTO #6

Date: June 2, 2026

View near Data Point X06, facing east.



PHOTO #7

Date: June 4, 2026

View near Data Point X07, facing east.



PHOTO #8

Date: June 4, 2026

View near Data Point X08, facing northwest.

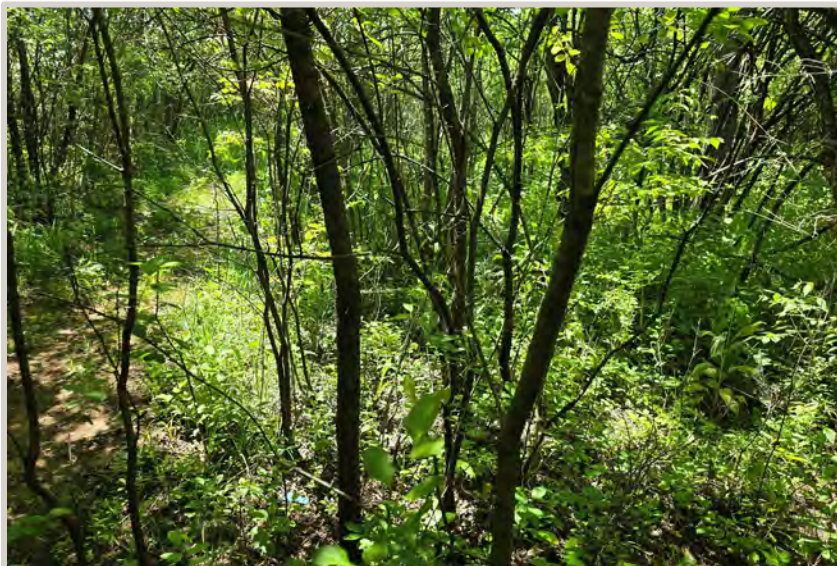


PHOTO #9

Date: June 4, 2026

View near Data Point X09, facing south.



PHOTO #10

Date: June 4, 2026

View near Data Point X10, facing southeast.



PHOTO #11

Date: June 4, 2026

View near Data Point X11, facing northeast.



PHOTO #12

Date: June 4, 2026

View near Data Point X12, facing west.



PHOTO #13

Date: June 4, 2026

View near Data Point X13, facing north.



PHOTO #14

Date: June 4, 2026

View near Data Point X14, facing west.



PHOTO #15

Date: June 13, 2026

View near Data Point X15, facing north.



PHOTO #16

Date: June 13, 2026

View near Data Point X16, facing northeast.



PHOTO #17

Date: June 13, 2026

View near Data Point X17, facing southeast.

APPENDIX III

REGULATORY INFORMATION

U.S. Army Corps of Engineers, Chicago District

Pursuant to Section 404 of the Clean Water Act, the U. S. Army Corps of Engineers (USACE) has jurisdiction over the placement of fill or dredged material in all jurisdictional waters of the United States. On September 8, 2023, the Revised Definition of “Waters of the United States”, which conforms to the 2023 U.S. Supreme Court Sackett decision, was published in the Federal Register and became effective immediately. Under the revised definitions, the following areas qualify as “Waters of the US” subject to USACE jurisdiction:

1. Navigable waters; the territorial seas; or interstate waters;
2. Impoundments of these waters;
3. Tributaries of navigable waters, the territorial seas and interstate waters that are relatively permanent, standing or continuously flowing bodies of water;
4. Wetlands adjacent to navigable waters, the territorial seas, or interstate waters that are relatively permanent, standing or continuously flowing bodies of water, and with a continuous surface connection to those waters;
5. Interstate lakes or ponds not identified above that are relatively permanent, standing or continuously flowing bodies of water, and with a continuous surface connection to the waters identified in items 1-4 above.

In accordance with the March 12, 2025 Memorandum to the Field Between the U. S. Department of the Army, U. S. Army Corps of Engineers and the US Environmental Protection Agency Concerning the Proper Implementation of “Continuous Surface Connection” Under the Definition of “Waters of the United States” under the Clean Water Act, in order for a wetland to be considered adjacent to a jurisdictional waterway or tributary, it must have a continuous surface connection because it directly abuts the waterway making it difficult to determine where the water ends and the wetland begins. Surface connections through a discrete water feature such as a ditch, swale, pipe or culvert do not constitute a continuous surface connection.

The following areas are not jurisdictional “Waters of the United States”:

1. Waste treatment systems;
2. Prior converted cropland;
3. Ditches, including roadside ditches, excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water
4. Artificially irrigated areas that would revert to dry land if irrigation ceased;
5. Artificial lakes and ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;
6. Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;
7. Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States; and
8. Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow.

High Quality Aquatic Resources (HQARs) are aquatic areas considered to be regionally critical due to their uniqueness, scarcity, and/or value, and other wetlands considered to perform functions important to the public interest, as defined in 33 CFR 320.4(b)(2). These resources include Advanced Identification (ADID) sites, bogs, ephemeral pools, fens, forested wetlands, sedge meadows, seeps, streams rated Class A or B in the Illinois Biological Stream Characterization study, streamside marshes, wet prairies, wetlands supporting Federal or Illinois endangered or threatened species, and wetlands with a floristic quality index of 20 or greater or mean C-value of 3.5 or greater. These areas generally are regarded as unsuitable for dredge or fill activities. See Appendix IV for definitions of the wetland types, and criteria used to evaluate the presence of HQARs during wetland delineations.

A Section 404 permit must be obtained before placing any fill material within a jurisdictional area. General permits, including nationwide and regional permits, are designed to expedite the processing of permits for minor non-controversial projects that are similar in nature and may have minimal environmental impact. On January 8, 2026, the USACE reissued 60 Nationwide Permits (NWP) and reissued general conditions and definitions. The 60 NWP went into effect on March 15, 2026 and will expire on March 15, 2031. Projects with wetland impacts greater than 0.5 acre, or which do not meet other NWP general or regional conditions, may require authorization under an Individual Permit (IP), which requires a Public Notice, which may result in greater scrutiny of the proposed project by the USACE, other concerned government agencies or stakeholders, or the general public.

Cook County Requirements

On January 9, 2025, the Metropolitan Water Reclamation District (MWRD) amended the *Watershed Management Ordinance* (WMO) which will regulate isolated wetlands and isolated “waters” within Cook County. The WMO requires a Watershed Management Permit from MWRD or an authorized municipality for any proposed impacts to isolated wetlands, wetland buffers and/or riparian environments resulting from regulated development activities.

Isolated Wetlands

Impacts to isolated wetlands that are equal to or exceed 0.10 acre will require compensatory mitigation based on the quality of the area. Mitigation at a ratio of 1.5:1 is required for impacts to Standard Isolated Wetlands (SIW) and mitigation at a ratio of 3:1 is required for impacts to High Quality Isolated Wetlands (HQIW).

The following isolated wetland areas are exempt from the wetland requirements of the WMO:

- Wetlands in roadside ditches created by excavation in upland areas;
- Wetlands created by excavation or by other unfinished development activities in upland areas;
- Wetlands created by artificial hydrology including, but not limited to, irrigation or detention facility outlets which would revert to upland areas if irrigation were to cease;
- Wetlands created by the construction of stormwater facilities in upland areas, provided that the facility was not created for the purpose of wetland mitigation; and
- Wetlands created by the construction of ponds in upland areas.

Wetland delineation reports and investigations that identify isolated wetlands or waters of Cook County will require an on-site field verification by MWRD or an authorized municipality.

Buffers

Wetland buffers for isolated wetlands shall be determined according to the functions of the wetland. Minimum isolated wetland buffer widths shall be as follows:

- Thirty (30) feet from the boundary of standard isolated wetlands greater than or equal to one-tenth of an acre (0.10 acre) and less than one-half of an acre (0.5 acre) in area;
- Fifty (50) feet from the boundary of standard isolated wetlands greater than or equal to one-half of an acre (0.5 acre) in area; or
- One-hundred (100) feet from the boundary of high quality isolated wetlands.

The wetland buffer width for isolated wetlands may be varied to a minimum of the greater of one-half the required buffer width or 30 feet, upon approval of either MWRD or an authorized municipality. Impacts to buffer areas shall be mitigated through the replacement or enhancement of impacted buffer functions.

Riparian Environments

Based on the WMO, a riparian environment is defined as: “The vegetated area between aquatic and upland ecosystems adjacent to a waterway or body of water that provides flood management, habitat, and water quality enhancement or other amenities dependent upon the proximity to water.”

- Any developments involving riparian environments shall identify the boundaries of those riparian environments. The Riparian Environment Determination is as follows:
- For any Jurisdictional Waters of the U.S. that does not qualify as a wetland, the riparian environment shall be fifty (50) feet from the Ordinary High Water Mark (OHWM).
- For any isolated Waters that do not qualify as a wetland, the riparian environment shall be thirty (30) feet from the Ordinary High Water Mark (OHWM).

For any Jurisdictional Waters of the U.S. or for any Isolated Waters that does not qualify as a wetland identified as a Biologically Significant Stream (BSS), the riparian environment shall be one-hundred (100) feet from the Ordinary High Water Mark (OHWM).

The following Isolated Waters are not considered to be riparian environments and shall be exempt from the riparian environment requirements of the WMO:

- Roadside ditches created by excavation for the purposes of stormwater conveyance;
- Channels or bodies of water created by unfinished development activities; or,
- Channels or bodies of water created by the construction of stormwater facilities for the purposes of stormwater management.

Proposed adverse impacts to a riparian environment will require approval from MWRD or an authorized municipality. Mitigation will also be required for adverse impacts or modification to the existing functions of a riparian environment.

APPENDIX IV

DELINEATION METHODS AND FLORISTIC ANALYSIS

WETLAND DELINEATION METHODS

The site was field inspected and plant species lists were recorded to document the vegetation type present. A wetland indicator status is assigned to each plant species based on a regional list published by the U.S. Army Corps of Engineers. The categories are based on the estimated probability that a species would be naturally encountered in a wetland. Under the *Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region*, the area is considered to be dominated by hydrophytic vegetation and representative of a wetland plant community by one of two methods, the dominance test or the prevalence index. The dominance test is satisfied if greater than 50% of the dominant plant species in a given area have a wetland indicator status of FAC, FACW, or OBL. The prevalence index assigns a numeric value to the wetland indicator status and uses a weighted-average of the wetland indicator status of all plant species present in the sampling area. A wetland plant community is present if the prevalence index is less than 3.0.

Plant Wetland Indicator Status Categories

Indicator Category	Symbol	Indicator Definition
Obligate Wetland Plants	OBL	Plants that occur almost always (estimated probability greater than 99%) in wetlands under natural conditions, but which may also occur rarely in non-wetlands.
Facultative Wetland Plants	FACW	Plants that usually occur in wetlands (estimated probability 67% to 99%), but occasionally are found in non-wetlands.
Facultative Plants	FAC	Plants with a similar likelihood (estimated probability 33% to 67%) of occurring in both wetlands and non-wetlands.
Facultative Upland Plants	FACU	Plants that usually occur in non-wetlands (estimated probability 67% to 99%) but occasionally are found in wetlands.
Obligate Upland Plants	UPL	Plants that occur almost always (estimated probability greater than 99%) in non-wetlands under natural conditions, but which may also occur rarely in wetlands.

In addition to being dominated by hydrophytic vegetation, each suspect wetland must also exhibit hydric soils and wetland hydrology. As defined in the Federal Register (*Federal Register, Volume 59: July 13, 1994*), “A hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part.” According to the National Technical Committee for Hydric Soils, documentation of the presence or absence of a hydric soil can only be determined through on-site investigation, not strictly by its classification of an area on soil survey maps. Soils are identified as hydric in the field if they possess certain indicators, as defined in the *Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region*. These field indicators are a regionally specific subset of the field indicators described in the *Field Indicators of Hydric Soils in the United States* (Version 9.0; NRCS, 2024). The absence of a field indicator in a soil does not exclude that soil from being classified as hydric. Soil series, soil color, the presence of mottling or gleying, and depth to water table are determined and recorded in the field. These features, when present, may indicate a hydric soil when hydric soil field indicators are absent.

Determinations of hydrology are based on observations of wetland hydrology indicators. There are two types of indicators, primary indicators and secondary indicators. A determination of wetland hydrology requires the

presence of one primary indicator or two secondary indicators. Hydrology indicators are placed into four groups, these being observations of surface water or saturated soils, evidence of recent inundation, evidence of recent soil saturation, or evidence of other site conditions or data. A listing of the wetland hydrology indicators is provided in the table below.

Indicator	Category	
	Primary	Secondary
Group A – Observation of Surface Water or Saturated Soils		
A1 – Surface water	X	
A2 – High water table	X	
A3 – Saturation	X	
Group B – Evidence of Recent Inundation		
B1 – Water marks	X	
B2 – Sediment deposits	X	
B3 – Drift deposits	X	
B4 – Algal mat or crust	X	
B5 – Iron deposits	X	
B7 – Inundation visible on aerial imagery	X	
B8 – Sparsely vegetated concave surface	X	
B9 – Water-stained leaves	X	
B13 – Aquatic fauna	X	
B14 – True aquatic plants	X	
B6 – Surface soil cracks		X
B10 – Drainage patterns		X
Group C – Evidence of Current or Recent Soil Saturation		
C1 – Hydrogen sulfide odor	X	
C3 – Oxidized rhizospheres along living roots	X	
C4 – Presence of reduced iron	X	
C6 – Recent iron reduction in tilled soils	X	
C7 – Thin muck surface	X	
C2 – Dry-season water table		X
C8 – Crayfish burrows		X
C9 – Saturation visible on aerial imagery		X
Group D – Evidence from Other Site Conditions or Data		
D9 – Gauge or well data	X	
D1 – Stunted or stressed plants		X
D2 – Geomorphic position		X
D5 – FAC-neutral test		X

Plant communities of the site were evaluated with the Floristic Quality Assessment (FQA) methodology, a widely-used technique used for rapid assessment of the floristic quality in a defined area or plant community. In using FQA, the presence of each plant species is recorded, generating a species inventory. This inventory is entered into computer software that was used to generate the species lists used in this report. Floristic quality calculations are also generated that provides a compilation of various floristic quality data, resulting in a determination of the floristic quality of the subject area.

The floristic quality data for an area partially indicates its quality as a natural area (i.e., relative to known or perceived pre-settlement or disturbance conditions). One indicator of the degree of disturbance or floristic quality in an area is the calculated Native Floristic Quality Index (Native FQI). A high Native FQI value indicates a high-quality natural area, but how high the Native FQI must be for an area to be of high quality is a subjective determination. In general, a wetland (or other defined area) with a Native FQI greater than 20.00 from a single observation may be considered a moderately high quality plant community. These areas have a high potential for containing more conservative or high-quality plant species. Therefore, adverse impacts to such areas, especially wetlands and subsequent proposals for compensatory mitigation, may be scrutinized carefully by the regulatory agencies.

A high number of native species with high coefficients of conservatism “C” (a subjective measure of quality based on habitat specificity and relative tolerance to disturbance; weedy species are highly disturbance tolerant and are ranked lower) will result in a high Native FQI. The C value is based on the relative rarity of a species and/or the resiliency of a species following disturbance. Coefficients of conservatism for native plant species range from 0 for common, weedy species to 10 for rare, highly conservative species. Adventive species are not assigned a C value. Adventive species are non-native species that have entered the Chicago region since European settlement. These species generally do not lend themselves to increased floristic quality but instead appear after a disturbance. Thus, a high proportion of these species in a given area or community may be an indication of a lower quality plant community.

The wetness coefficient (W, ranging from -5 to +5) refers to the corresponding wetland indicator status (e.g., OBL = obligate wetland species, -5; FAC = facultative species, 0; UPL = upland species, +5) for U.S. Fish and Wildlife Service Region 3 (Illinois, Michigan, Indiana, Missouri, Iowa, Wisconsin, and Minnesota). A wetland indicator status noted in brackets (e.g., [FACW]) is a modification of the Region 3 indicator status to apply locally in the 22-county Chicago region covered by Plants of the Chicago Region. The Wetness coefficient is useful in evaluating the general “wetness” affinity of a sampled plant community. If the average indicator status among all species present is in the FAC, FACW, or OBL classes, then the plant community may be considered hydrophytic.

U.S. Army Corps of Engineers, Chicago District

High Quality Aquatic Resources (HQARs) include Advanced Identification (ADID) sites (mapped in Kane, Lake and McHenry Counties), bogs, dune and swale complexes, ephemeral pools, fens, forested wetlands, sedge meadows, seeps, streams rated Class A or B in the Illinois Biological Stream Characterization study, wet prairies, wetlands supporting Federal or Illinois endangered or threatened species, and wetlands with a floristic quality index of 20 or greater or mean C-value of 3.5 or greater. These definitions are listed below. If a given wetland meets one or more of these definitions, that wetland is considered a HQAR and an Individual Permit (IP) is required.

Advanced Identification (ADID) sites: Aquatic sites that have been identified by the Chicago District and U.S. Environmental Protection Agency, in advance of specific permit requests, as areas generally unsuitable for the disposal of dredged or fill material, because of a variety of factors, including high floristic values, water quality or storage functions, or similar wetland functions performed at elevated levels. ADID sites include various Waters of the U.S., including wetlands. ADID resources are shown on the County Wetlands map for the subject property included with this report as Figure 3.

Bog: A low nutrient peatland, usually in a glacial depression, that is acidic in the surface stratum and often dominated at least in part by the genus *Sphagnum*.

Dune and Swale Complex: Areas usually parallel to the Lake Michigan shoreline and typified by sandy, linear, upland ridges alternating with low-relief wetland created over time during changes in the Lake Michigan's water levels.

Ephemeral pool: A seasonally inundated depression within a forested wetland or upland community, usually located on a moraine, glacial outwash plain, or in an area shallow to bedrock; also known locally as a "vernal pool." These areas may not be permanently vegetated.

Fen: A peatland, herbaceous (including calcareous floating mats) or wooded, with calcareous groundwater flow.

Forested wetland: A wetland dominated by native woody vegetation with at least one of the following species or genera present: *Carya* spp., *Cephalanthus occidentalis*, *Cornus alternifolia*, *Fraxinus nigra*, *Juglans cinerea*, *Nyssa sylvatica*, *Quercus* spp., *Thuja occidentalis*, *Betula nigra*, *Betula alleghaniensis*, *Betula papyrifera*, *Fagus grandifolia*.

Sedge meadow: A wetland dominated by at least one of the following genera: *Carex*, *Calamagrostis*, *Cladium*, *Deschampsia*, *Eleocharis*, *Rhynchospora*, *Scleria*, or *Eriophorum*.

Seep: A wetland, herbaceous or wooded, with saturated soil or inundation resulting from the diffuse flow of groundwater to the surface stratum. [Seeps typically occur on slopes because of blocked vertical infiltration.]

Streams rated A or B in the Illinois Biological Stream Characterization study: The historical Class A and B rating system was replaced with the new Illinois Department of Natural Resources stream classification system that can be found at: <https://dnr.illinois.gov/conservation/biologicalstreamratings.html>

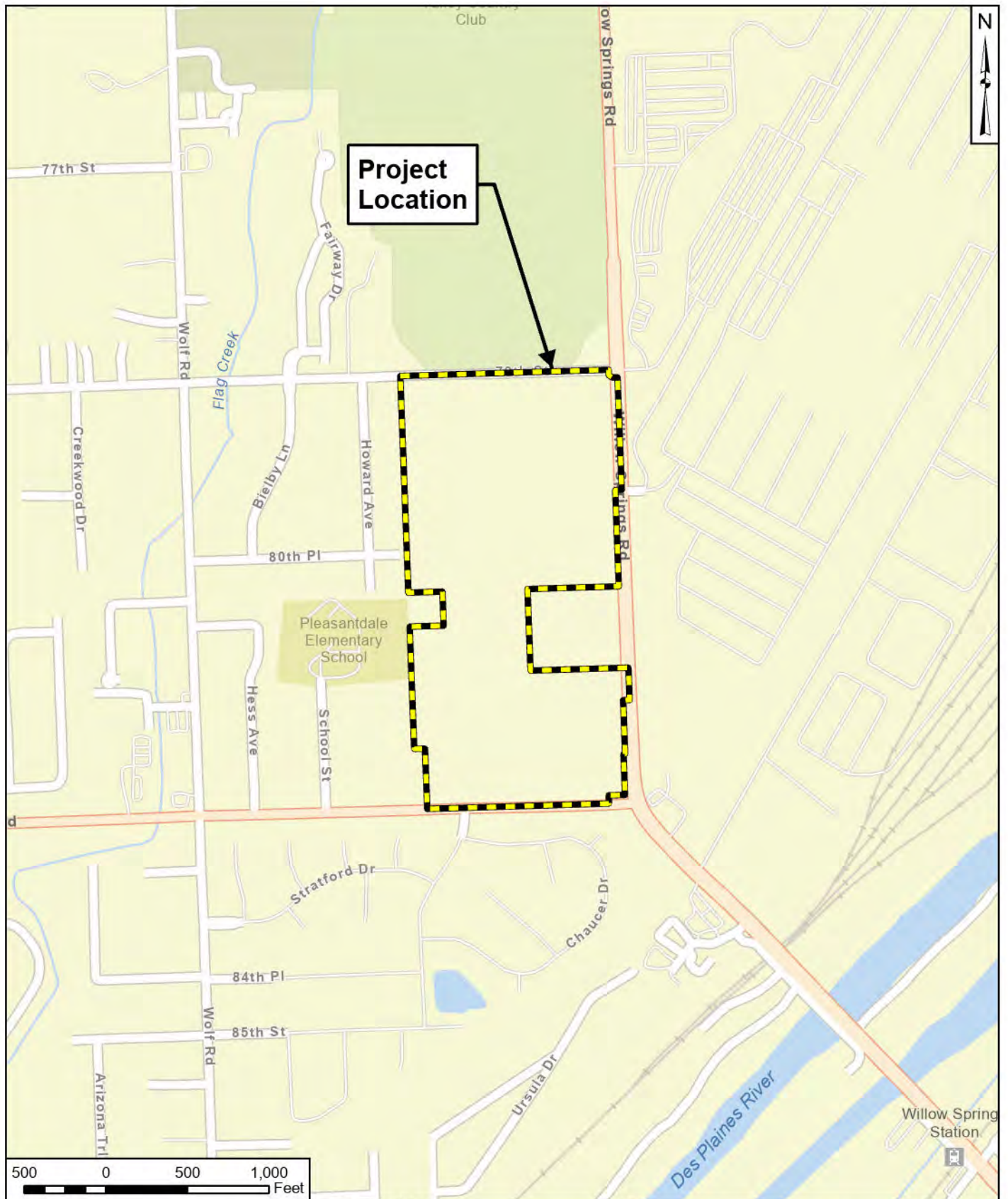
Wet prairie: A wetland dominated by native graminoid species with a diverse indigenous forb component that is seasonally saturated and/or temporarily inundated and may resemble a fen in its best development. Species found in a high-quality wet prairie include at least one of the following: *Calamagrostis canadensis*, *Spartina*

pectinata, *Aster puniceus firmus*, *Beckmannia syzigachne*, *Chelone glabra*, *Eleocharis wolfii*, *Lysimachia quadrifolia*, *Oenothera perennis*, *Oenothera pilosella*, *Pedicularis lanceolata*, and *Solidago ohioensis*.

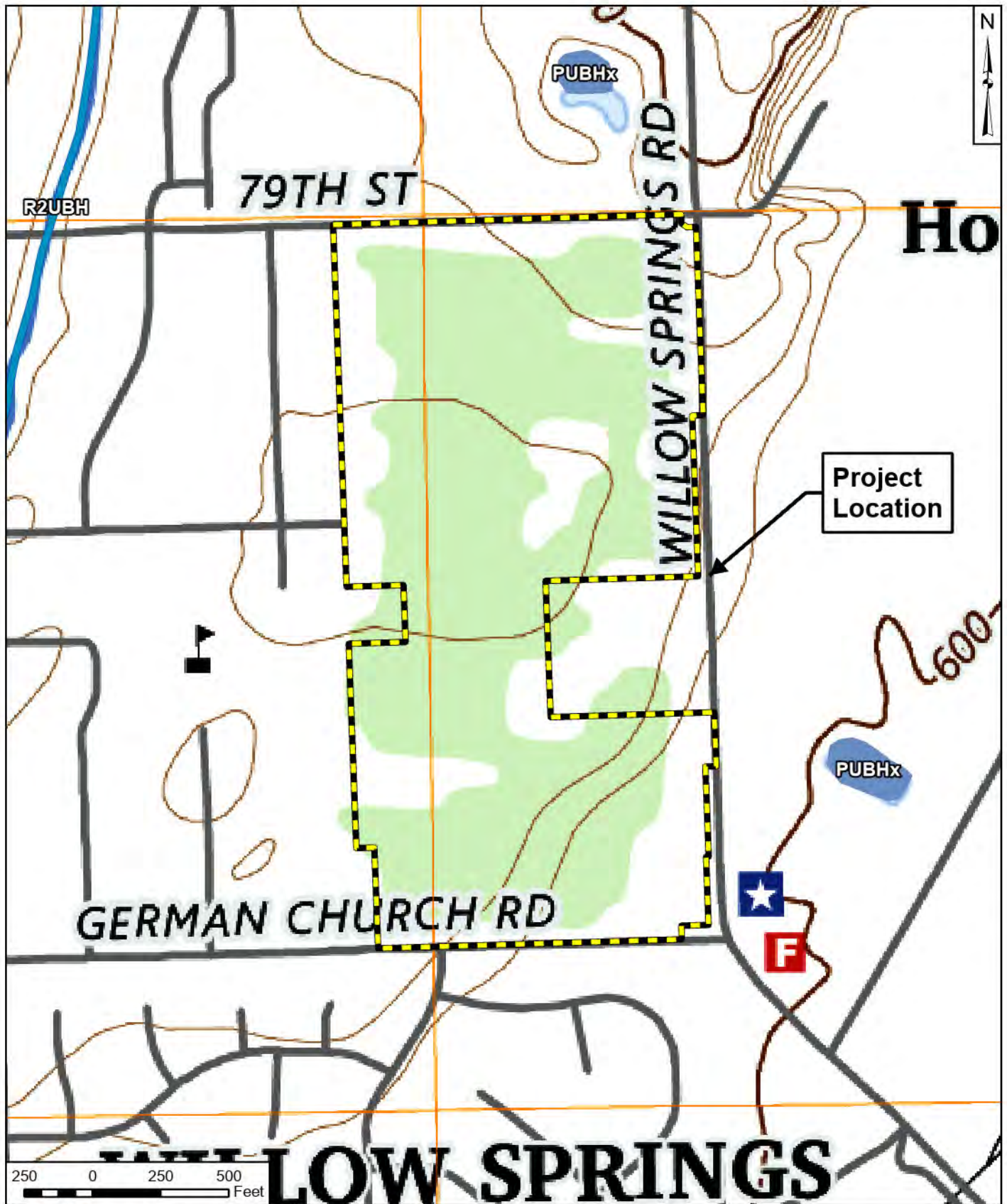
Wetlands Supporting Federal or Illinois Endangered or Threatened Species: An Agency Action Report is routinely requested from the Illinois Department of Natural Resources (IDNR) and from the U.S. Fish and Wildlife Service (USFWS) for wetland delineations. These reports indicate the likelihood of listed species (that is, those species considered legally protected as threatened or endangered) being found near or on a subject property, or possible encroachment into protected natural area reserves. If a listed species record is indicated for the site, an endangered and threatened species investigation may be required to evaluate the actual presence or absence of the species in question.

Wetlands with a Floristic Quality Index of 20 or greater or a mean C-value of 3.5 or greater: Plant species inventories collected during wetland delineations are used to generate floristic quality values using the Floristic Quality Assessment method published in *Plants of the Chicago Region* (Swink and Wilhelm, 1994).

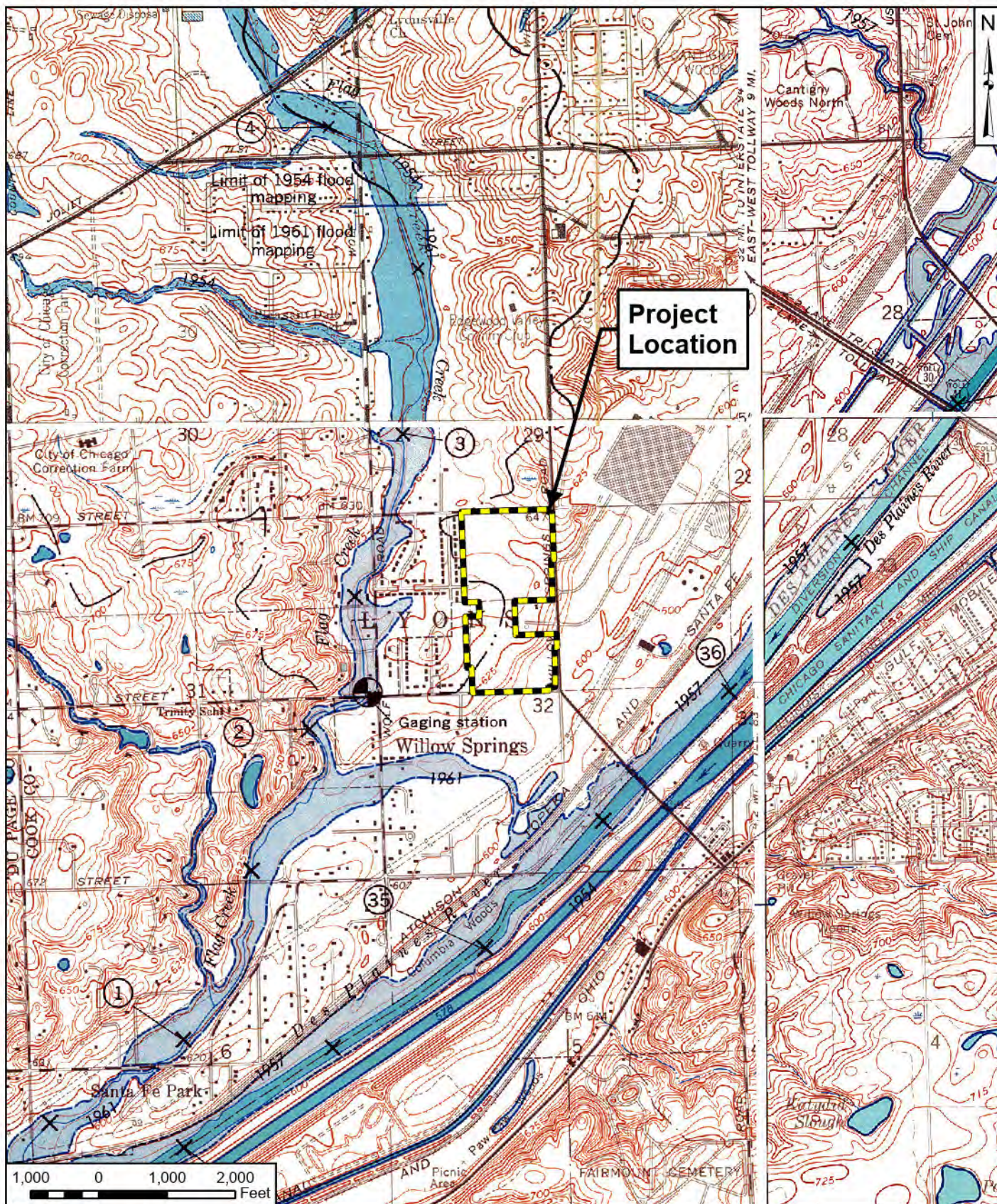
FIGURES



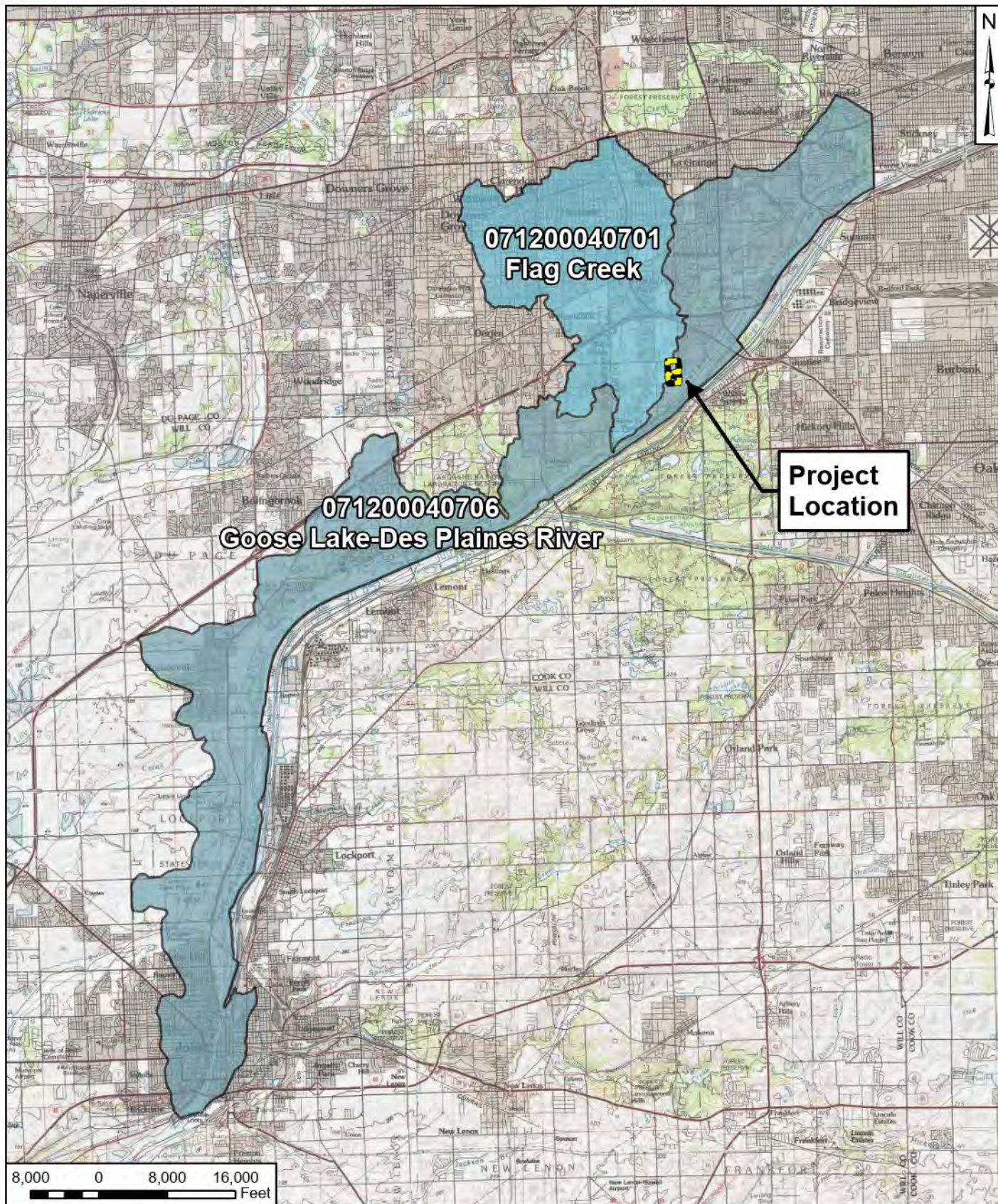
 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com	PROJECT NO.: 260647		CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525	TITLE: PROJECT LOCATION	
	CREATED BY: PL				
	DATE: 06/15/2026		BASE LAYER: ESRI World Street Map (YEAR)	SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	FIGURE: 1
Go beyond limits	SCALE: 1:10,000				



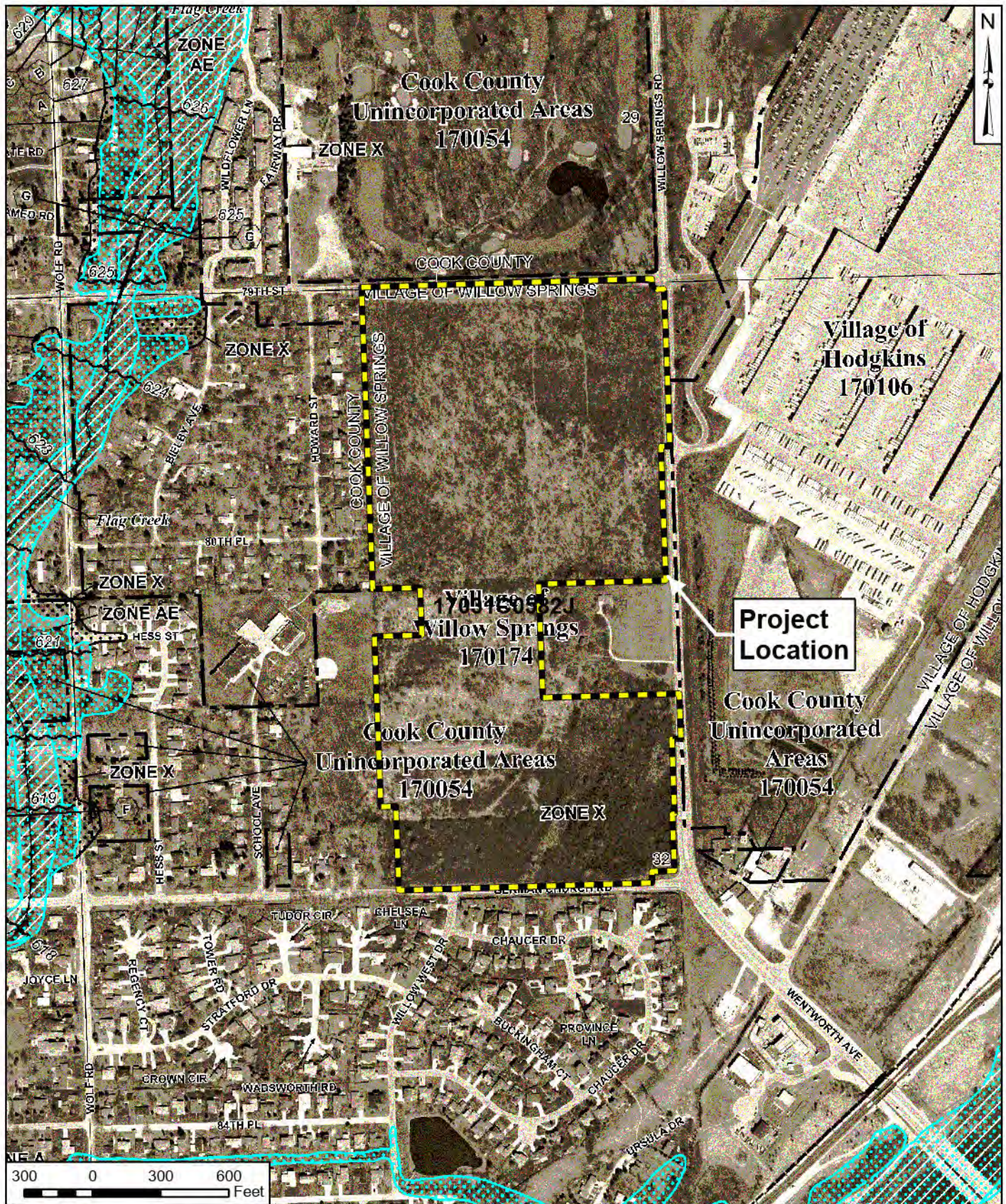
 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com	PROJECT NO.: 260647		CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525		TITLE: NATIONAL WETLANDS INVENTORY (NWI)	
	CREATED BY: PL		BASE LAYER: ESRI USA Topographic Map		SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	
	DATE: 06/15/2026					
	SCALE: 1:6,000		FIGURE: 2			
Go beyond limits						



 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com Go beyond limits	PROJECT NO.: 260647	CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525	USGS HYDROLOGICAL ATLAS	
	CREATED BY: PL			
	DATE: 06/15/2026	BASE LAYER: USGS Hydrological Atlas Sag Bridge	SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	FIGURE: 3
	SCALE: 1:24,000			



 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com	PROJECT NO.: 260647		CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525	TITLE: 12-DIGIT HYDROLOGIC UNIT CODE (HUC)	
	CREATED BY: PL				
	DATE: 06/15/2026		BASE LAYER: ESRI USA Topographic Map	SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	FIGURE: 4
	SCALE: 1:192,000				
Go beyond limits					



 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com Go beyond limits	PROJECT NO.: 260647	CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525	FEMA FLOOD INSURANCE RATE MAP (FIRM)	
	CREATED BY: PL			
	DATE: 06/15/2026	BASE LAYER: FEMA Firm Panels 17031C: 0582 Effective: 08/19/2008	SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	FIGURE: 5
	SCALE: 1:7,200			



LEGEND

Illinois Flood Zones

- | | |
|---|--|
|  Zone A |  Open Water |
|  Zone AE |  Zone VE |
|  Zone AE, Floodway |  Zone X, Depth Less Than 1 ft |
|  Zone X, 0.2% Annual Chance Flood Hazard |  Zone X, Protected By Levee |
|  Zone AH |  Zone X |
|  Zone AO |  Area Not Included |



V3 Companies

7325 Janes Avenue
Woodridge, IL 60451
630.724.9200 phone
www.v3co.com

Go beyond limits

PROJECT NO.:

260647

CREATED BY:

PL

DATE:

06/15/2026

SCALE:

1:9,600

CLIENT:

Lyons Township High School
District 204
100 S. Brainard Avenue
LaGrange, IL 60525

BASE LAYER:

Cook County
Aerial Imagery
(2025)

TITLE:

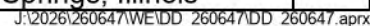
**FLOOD ZONES OF COOK
COUNTY, ILLINOIS (2022)**

SITE:

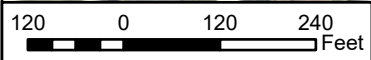
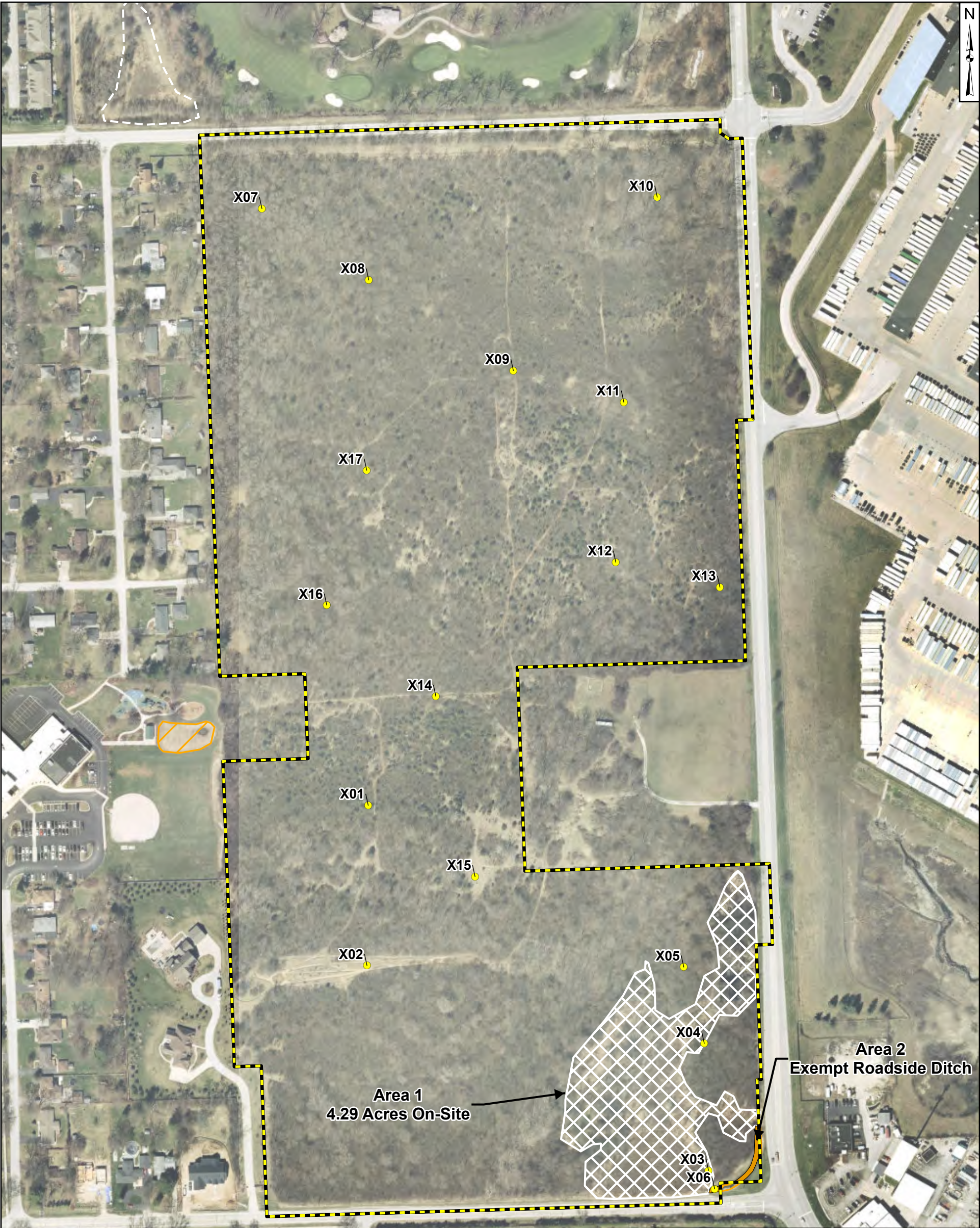
LTHS 204 Willow Springs Site
Willow Springs Road and 79th Street
Willow Springs, Illinois

FIGURE:

6



 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com	PROJECT NO.: 260647	CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525	TITLE: SOIL SURVEY OF COOK COUNTY, ILLINOIS	
	CREATED BY: PL			
Go beyond limits	DATE: 06/15/2026	BASE LAYER: Cook County Aerial Imagery (2025)	SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	FIGURE: 7
	SCALE: 1:8,000			



LEGEND	
	Data Point
	Project Boundary
	Wetland On-Site (4.29 Acres)
	Wetland Off-Site
	Exempt Roadside Ditch On-Site (0.05 Acres)
	Exempt Roadside Ditch Off-Site

 V3 Companies 7325 Janes Avenue Woodridge, IL 60451 630.724.9200 phone www.v3co.com Go beyond limits	PROJECT NO.: 260647	CLIENT: Lyons Township High School District 204 100 S. Brainard Avenue LaGrange, IL 60525	TITLE: AQUATIC RESOURCE DELINEATION	
	CREATED BY: PL	BASE LAYER: Cook County Aerial Imagery (2025)		
	DATE: 06/15/2026	SITE: LTHS 204 Willow Springs Site Willow Springs Road and 79th Street Willow Springs, Illinois	FIGURE: 8	
	SCALE: 1:2,880			