PRELIMINARY STORMWATER MANAGEMENT

PERMIT APPLICATION AND REPORT

FOR

NAPERVILLE RIDGE

DUPAGE COUNTY, ILLINOIS

REVISED MAY 22, 2026
REVISED APRIL 24, 2026
REVISED MARCH 16, 2026
NOVEMBER 24, 2025

402.181

PROFESSIONAL ENGINEER'S CERTIFICATION

STATE OF ILLINOIS }
SS.
COUNTY OF DUPAGE }

I, CHRISTOPHER R. MORGART, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF PULTE HOME COMPANY, LLC BY CEMCON, LTD. UNDER MY PERSONAL DIRECTION.

DATED THIS 22nd DAY OF May, AD, 2026

CHRISTOPHER R. MORGART 062-055788 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-055788

MY LICENSE EXPIRES ON NOVEMBER 30, 2027

PROFESSIONAL DESIGN FIRM LICENSE NO. 184-002937, EXPIRATION DATE IS APRIL 30, 2027

NOTE: UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

PREPARED FOR:

PULTE HOME COMPANY, LLC
1900 E. GOLF ROAD
SUITE 300
SCHAUMBURG, IL 60195

847-230-5400

PREPARED BY:

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PRELIMINARY STORMWATER MANAGEMENT

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NAPERVILLE RIDGE

DUPAGE COUNTY, ILLINOIS

1.0 PROJECT DESCRIPTION

The Naperville Ridge development proposed by Pulte Home Company, LLC is a multifamily residential subdivision with 47 duplexes totaling 94 units on the south side of 75th street in unincorporated DuPage County near the intersection with Palomino Drive (refer to the Project Location Map in Exhibit 1B). Site infrastructure improvements (see Engineering Plans) will include the construction of sanitary sewers, watermains, stormwater drainage and conveyance facilities, and stormwater management facilities which will be vegetatively stabilized for stormwater discharge control and best management practices.

The purpose of this Stormwater Management Analysis and Report is to summarize the hydrologic and hydraulic analyses performed for Existing and Proposed Conditions and to demonstrate that, when constructed, the development will comply with County, State, and Federal laws and regulations and provide a significant drainage improvement and regional benefit for the watershed.

2.0 EXISTING "WITHOUT PROJECT" CONDITIONS

A. Watershed Description

The subject site is mostly undeveloped with heavy stands of trees and several wetlands. The ownership parcels include water towers in the northeast which will be subdivided and removed from the proposed residential subdivision. The water tower and its associated parking lot are the only existing impervious area on the subject.

Based on County topography, there isn't much offsite upstream tributary area to the subject site. Approximately 8 acres of developed area to the south appear to be tributary to the subject site, as well as a minor 0.13 Ac. area to the southeast of the water tower area.

There are two points of release on the subject site; one to the southeast which drains through an adjacent subdivision and one to the northwest which drains to the 75th Street R.O.W. and through a culvert to the north. The entire subject site is within the watershed of the East Branch of the DuPage River, despite the two existing directions of flow. Each direction of flow meet about a mile downstream of the subject site in the East Branch of the DuPage River.

B. Methods

In accordance with the current DuPage County Countywide Stormwater & Floodplain Ordinance (Ordinance), a proposed site development which contains more than 25,000 Sq.-Ft. of new impervious area requires stormwater management to protect downstream properties. The Ordinance requires that the proposed development attenuate flows to 0.1 cfs/Ac. of development area or below existing conditions peak flows, whichever is more restrictive. To develop rainfall vs. runoff relationships for the development, the Soil Conservation Service (SCS) method was utilized with the PondPack V8i software and employed the following methodology and procedures in determining the respective hydrologic and hydraulic parameters.

- **Runoff Curve Numbers** - The TR-55 Tables 2-2a *(urban areas)* and 2-2c *(agr. Lands)*, "DuPage County Soil Survey", and watershed land use data were utilized to calculate runoff curve numbers *(CN)* for input to the PondPack model. A CN = 98 was used for all impervious surfaces and normal water levels, a CN = 74 was used for open space, and a CN = 70 (type C soils) was used for the heavily wooded areas present onsite. The CN documentation for the Project site is provided in Exhibit 2B for Existing Conditions and Exhibit 2E for Proposed Conditions.

- **Time of Concentration** - The time of concentration (Tc) was calculated using SCS TR-55 methodology. The Tc calculations were performed for flow paths representing the travel from the hydraulically most distant point of the watershed to the point of interest. The Tc documentation for the Project site is provided in Exhibit 2B for Existing Conditions and Exhibit 2E for Proposed Conditions.

- **Precipitation Data/Rainfall Distribution** - Updated Bulletin 75 northeast Illinois rainfall values (March 2020 revision) from Table 7 with Huff rainfall distributions from Table 26 were selected in accordance with Appendix E criteria and the "Technical Guidance" to the Ordinance. Storage volumes were evaluated based on the 100-Year frequency 24-Hour duration event measuring 8.57 inches of precipitation and the Huff 3rd quartile rainfall distribution.

- **Stage vs. Storage and Stage vs. Discharge Relationships** - Stage vs. storage relationships for the SWMF were measured within AutoCAD at regular intervals corresponding to the level of potential inundation, and the volume was calculated by the method of average area times the incremental interval. Stage vs. discharge relationships were developed in PondPack for all possible combinations of headwater and tailwater. PondPack was then run dynamically to evaluate the headwater and tailwater at each time step to determine the flow through each structure. Supporting documentation is provided in Exhibit 2B for Existing Conditions and Exhibit 2E for Proposed Conditions.

C. Existing Conditions Summary

The peak 100-Year critical duration storm was found to be the 100-Year 2-Hour event, in which the peak flow rate towards 75th street was calculated as 58.64 cfs. The numerical results are summarized along with the proposed results in Table 2 in Section 4.0 below. Refer to Exhibit 2C for the PondPack Model input and output for key events.

3.0 FLOODPLAIN, WETLANDS AND BUFFER ASSESSMENT

During the Project-Planning Phase, the subject site was evaluated for the presence of regulatory floodplains/floodways, wetland habitat, and buffers. This evaluation consisted of a detailed review of available Topographic, Wetland, and FEMA Maps. Following is an account of the sources referenced, and procedures employed in conducting the assessment for the Project.

A. Floodplain Evaluation

The Project site is ultimately tributary to the East Branch of the DuPage River. According to FEMA FIRM panel 17043C0252J, effective 8/1/2019, there is no floodplain on the subject site. This is

corroborated by CEMCON's findings as there is only a few acres of offsite area and the total watershed area at the downstream point isn't even 0.1000 sq. mi.

B. Buffer Assessment

The County Ordinance identifies riparian buffer environments as "vegetative areas along waterways within the limits of the regulatory floodplain". As there is no floodplain on the subject site, there are no riparian buffer environments.

C. Wetlands Assessment

According to the National Wetland Inventory GIS database, there are wetlands within the development limits. Refer to Exhibit 1E for a copy of the NWI Map. A Wetland Delineation Report has been prepared for the site by V3 Companies of Illinois, Ltd. (Exhibit 4B). Refer to Tab 4 for additional information.

The onsite wetlands will not be disturbed. There will be minimal disturbance in the wetland buffers due to construction of the emergency access path, limestone path and associated grading. These impacts will be submitted to and reviewed by DuPage County with Final Engineering. The onsite wetlands have been analyzed for indirect wetland impacts. See the summary tables provided in Tab 4 of the exhibits for more information on the existing and proposed results of that indirect impact analysis.

It was found that high water levels, drawdown times, and inundation times are all within the limits such that the proposed Project will not be causing any indirect impacts to the hydrology of the wetlands.

4.0 PROPOSED "WITH PROJECT" CONDITIONS

A. Description

In accordance with the City of Naperville and DuPage County Stormwater Management Ordinance, any proposed site development which would affect the discharge of stormwater requires stormwater management to protect downstream properties. In general, SWMFs are

configured to restrict site runoff for the 100-Year event to 0.10 cfs/Ac. or to less than existing conditions, whichever is more restrictive.

Naperville Ridge will accomplish sufficient attenuation of runoff for all disturbed area via two (2) proposed stormwater management facilities. Much of the site is not proposed to be disturbed and detention is not provided for that area. Most of the detention is provided downstream of the onsite wetlands, which is advantageous to maintaining the current hydrology of the wetlands as they have short inundation times in existing conditions and detention ponds extend drawdown times. Some portions of the development will first pass through the onsite wetlands prior to being detained in the downstream SWMF 001; the allowable release rate was evaluated at the downstream end of the site where the final outlet releases towards the right of way of 75th Street. Due to this pond configuration, even the back of berm of SWMF 002 will be detained in the downstream SWMF 001 and so only Subarea 010 (0.25 Ac.) will be disturbed and undetained. This back of berm is approximately 1% of the total disturbed area and thus will not be counted against the allowable release rate as that is well below the limit of 5% undetained area allowed by the Ordinance.

B. Hydrologic and Hydraulic Analysis

First a “development only” hydrologic model was prepared in order to find the required storage volume to detain runoff to allowable limits. All disturbed areas were routed through the two proposed basins and an appropriate restrictor sized in order to detain release to 0.10 cfs/Ac. See Exhibit 2F for the “dev-only” PondPack Model and Output.

Table 1 – Allowable and Calculated Release Rate in Development-Only Model

100YR Storm:	**24**
Allowable Release Rate:	0.10
Detained Area (Ac.):	21.75
Allowable Release (cfs):	2.18
Total Proposed Flow to O-1 (cfs):	**2.14**

Next a “bypass” PondPack model was prepared in order to demonstrate that release rates are

not being increased compared to existing conditions. This model was also used for evaluating whether there are any indirect impacts to the onsite wetlands.

This model also was used to find the proposed restrictor sizing. Since undisturbed and offsite areas are made up of already developed areas, wetlands, and wetland buffers, (none of which will be further detained in the future) it is proposed to pass these flows through the proposed restrictors rather than over emergency overflow weirs. The development-only allowable release rate was added to undisturbed and offsite bypass flows to find a maximum design flow for the downstream-most restrictor. The restrictor size was further modified in order to ensure that the required volume found in the "dev-only" model was filled in the "bypass" model.

Table 2 – Restrictor Design Analysis and Comparison to Existing Flow

100YR Storm:	**24**
Allowable Release Rate:	0.10
Detained Area (Ac.):	21.75
Development Allowable Release (cfs):	2.18
Bypass Flows	
021 (cfs):	0.35
022 (cfs):	1.46
023 (cfs):	1.55
024 (cfs):	0.29
025 (cfs):	0.56
026 (cfs):	3.52
101 (cfs):	0.09
102 (cfs):	4.55
103 (cfs):	1.02
Total Allowable Release Rate from SWMF (cfs):	15.57
Proposed Release Rate from SWMF 001 (cfs):	10.39
Total Proposed Release Rate to 75th (cfs):	**10.48**
EXISTING Flow	
O-1 (cfs):	23.00

5.0 POST CONSTRUCTION BEST MANAGEMENT PRACTICES

In accordance with the Post Construction Best Management Practices (PCBMP) portion of the Ordinance as outlined below:

15-64. Post Construction Best Management Practices Design Criteria.

15-64.A PCBMPs shall provide volume and pollutant control using one of the following practices:

15-64.A.1 Infiltration of 1.25 inches for all new impervious surfaces: or

15-64.A.2 Native vegetated wetland bottom site of runoff storage basin; or

15-64.A.3 PCBMPs not constructed pursuant to Sections 15-64.A.1 or 15-64.A.2 shall be constructed in accordance with 15-64.C.

The PCBMP requirement will be met with a native vegetated wetland bottom site runoff storage basin. The site is expected to generate total suspended solids, metals and oils, and nutrients consisting of nitrogen and phosphorus. The SWMF will incorporate native vegetated wetland shelves and a deep open water pool to promote filtration, infiltration, and evapotranspiration. The proposed BMP plan is designed to capture, to the extent possible, all of the identified pollutants. The open water pool will allow sediment to settle out and promote evaporation. Wetland shelves have been incorporated around the fringe of the open pool to increase pollutant contact time with the native vegetation to filter the pollutants from the runoff. In addition, the native vegetation will promote nutrient intake and will help infiltrate the runoff with its deep roots and greater biomass of root material and also increase the pore volume within the soil. At final, the proposed PCBMP plan will provide an effective treatment train for the site runoff and thereby comply with the Ordinance.

6.0 SOIL EROSION AND SEDIMENTATION CONTROL PLAN

Soil erosion and sediment control measures will be proposed to protect downstream properties and the Special Management Areas from adverse effects of soil erosion and sedimentation. The proposed erosion and sediment control features will include:

- Storm sewer inlets protected with sediment trapping/filter control devices during construction.

- Silt fencing installed along the site perimeter and a double row of silt fence along wetland, buffer, and floodplain areas.
- Construction entrance(s) will be implemented to minimize the impact to adjacent roadways.
- Disturbed areas permanently seeded and protected from soil erosion after final grading is accomplished.

7.0 STORMWATER CONVEYANCE SYSTEM

Minor and major conveyance systems will be designed at the Final Engineering stage in order to comply with all requirements. The 10-Year minor conveyance system will be designed to drain through storm sewer via gravity flow without exceeding the tops of pipes. The 100-Year major conveyance system will be designed to pass overland while maintaining required freeboard to local foundations and preventing ponding in excess of allowed depths.

8.0 STORMWATER SYSTEMS MAINTENANCE PLAN

The Applicant shall be responsible for the periodic monitoring and maintenance of all stormwater management and stormwater conveyance facilities until such time of final acceptance of the improvements, at which time the Homeowners Association (HOA) will assume maintenance and monitoring. The system includes, but are not limited to, (a) storm sewers, storm drains, inlets, manholes, catch basins and appurtenances, (b) swales and overland drainageways, (c) all containment berms and all stormwater storage facilities, (d) all landscaping and vegetative cover around and within stormwater conveyance and stormwater storage facilities, and (e) all permanent erosion and sedimentation control devices. The Applicant/HOA shall undertake appropriate measures to monitor and maintain such facilities in accordance with the policies and procedures established under the Ordinance as amended from time-to-time, and/or the programs and procedures set forth by the owner as part of the routine maintenance program. The programs for monitoring and maintaining the Stormwater Management and/or Water Conveyance Facilities/Systems imposed under this Plan shall include the following components and procedures:

A. Storm sewers, storm drains and other drainage appurtenances, including manholes and inlets, shall be kept clear of sediment and debris, retained at the elevations, lines and grades intended, and maintained in an operable condition capable of conveying storm water runoff.

B. Swales and overland drainage ways shall be maintained to the line and grade established on the Site Development Plan documents to convey stormwater runoff in a free and unobstructed manner. Landscape planting, earthen fill, or other obstructions that impede the flow of stormwater shall be removed, the area regraded, and a vegetative cover shall be reestablished to deter erosion.

C. The proper function of the stormwater management system is dependent upon maintaining both the structural integrity and the minimum elevation of the containment berms, and it is also essential that the volume of potential storage available within the stormwater management facility be preserved. Substantial regrading, placement of earthen fill, or other earthwork operations that would change the elevation, impair the structural integrity, or diminish the volume contained within the basin shall be prohibited. Containment berms shall be maintained at the minimum elevations noted on the Site Development Plan documents and in good structural condition.

D. A vegetative cover around and within the stormwater management facility is essential for the prevention of soil erosion and the deposition of sediments within the basin. The periodic replanting and replacement of vegetation shall be required, when necessary, to maintain the vegetative cover.

E. Temporary sediment traps, siltation fences, or ditch checks, as well as those permanent facilities including catch basins and inlets shall be periodically cleaned of sediment and debris and/or replaced and restored to operable conditions.

9.0 SUMMARY

Pulte Home Company, LLC., proposes the Naperville Ridge development, a multifamily residential subdivision with 47 duplexes totaling 94 units on the south side of 75th Street in unincorporated DuPage County near the intersection with Palomino Drive. Stormwater storage/ management is required to control runoff from the site per the County Ordinance.

A hydrologic analysis was performed utilizing PondPack to verify compliance with the County Ordinance. The stormwater management systems proposed meet and exceed the requirements of DuPage County. Additionally, as demonstrated by the PondPack model results, the proposed development will significantly reduce flows downstream and provide a net watershed benefit.

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TAB 1

PROJECT OVERVIEW

EXHIBIT 1A

STORMWATER MANAGEMENT CERTIFICATION

DUPAGE COUNTY STORMWATER MANAGEMENT CERTIFICATION APPLICATION (1/2)

1. Community and Status	2. Date of Application	3. Stormwater Application No.	4. Community Tracking No.
Naperville ☐ Non ☑ Partial ☐ Complete			

5. Applicant:

Name: Ty Morris

Company Name: Pulte Home Company, LLC

Address: 1900 E. Golf Road, Suite 300

City, ST, Zip: Schaumburg, IL 60195

Phone: 630.201.3411

Email: Ty.Morris@pulte.com

6. Owner:

Name: Ty Morris

Company Name: Pulte Home Company, LLC

Address: 1900 E. Golf Road, Suite 300

City, ST, Zip: Schaumburg, IL 60195

Phone: 630.201.3411

Email: Ty.Morris@pulte.com

7. Description of Proposed Development: Residential subdivision of currently undeveloped land with 43 duplexes totaling 86 units Includes residential buildings, roads, utilities, and stormwater management.

8. Location of Development:
(if not address use nearest major intersection)

Address: 24W011 77th St

Naperville, IL 60565

Municipality: Naperville

Watershed Planning Area & Trib: East Branch of DuPage River

9. Legal Description (attach additional sheets if needed)

27 (¼ Section) 38N (Township) 10E (Range)

PIN 08 - 27 - 000 - 14

PIN 08 - 27 - 300 - 13

10. Check all of the conditions which apply:

☐ Flood Plain ☑ Stormwater Detention ☐ Best Management Practices ☑ Soil Erosion & Sediment Control

☑ Wetland ☑ Wetland Buffer ☐ Riparian Buffer

11. Acknowledgement of On-Site Infiltration PCBMPs

I acknowledge that I have used my best effort to identify zones for which on-site infiltration are prohibited for Post Construction Best Management Practices (PCBMPs) in accordance with the Ordinance (15-63.B)

Signature of Applicant | Ty Morris (Print Name) | Date

12. Freedom of Information Act (FOIA)

I acknowledge that all architects' drawings, engineers' technical submissions and other construction-related technical documents containing stormwater management information submitted with this application may be made available for inspection or copying by the County, notwithstanding 5 ILCS 140/7(1)(k), upon the written request for such materials. Such productions will be restricted to the following parties: i) the Applicant ii) any subsequent owner of the subject property; or iii) any governmental unit having planning or drainage jurisdiction within 1 and ½ mile of the subject property.

Signature of Applicant | Ty Morris (Print Name) | Date

Signature of Owner | Ty Morris (Print Name) | Date

13. Statement of Opinion for Minimum Criteria for Stormwater Management

I am a Professional Engineer under the employment of the Applicant. It is my professional opinion that the development meets the minimum criteria for stormwater management in accordance with the Ordinance (15-36)

Signature of Professional Engineer | Christopher R. Morgart (Print Name) | Date

_____ Community Copy _____ DuPage County SM Copy _____ Applicant Copy

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DUPAGE COUNTY STORMWATER MANAGEMENT CERTIFICATION APPLICATION (2/2)

Stormwater Application No:	**Community Tracking No:**

14. Statement of Opinion for Presence of Flood Plain, Wetlands, and Buffers (15-47-A.5)

☐ I acknowledge the presence of flood plain. ☑ I deny the presence of flood plain.	☑ I acknowledge the presence of wetlands. ☐ I deny the presence of wetlands.	☐ I acknowledge the presence of buffers. ☑ I deny the presence of buffers.
_____ _____ Signature of Qualified Professional Date	_____ _____ Signature of Qualified Professional Date	_____ _____ Signature of Qualified Professional Date
Christopher R. Morgart Printed Name	_____ Printed Name	_____ Printed Name

15. Soil Erosion & Sediment Control Submittal Requirements (15-50.B)
(For developments with less than 1 acre of land disturbance that are not part of a larger common plan)

I certify that the development meets the soil erosion and sediment control design criteria found in Article VII have been met.

_____ Christopher R. Morgart _____
Signature of Qualified Designer Print Name Date

16. Soil Erosion & Sediment Control Requirements (15-59.W) **(For developments with land disturbing activities greater than 1 acre)**

I acknowledge that the site complies with the IEPA NPDES ILR10 Permit.

_____ Ty Morris _____
Signature of Applicant Print Name Date

17. Acknowledgement of Required As-Built Plans (15-47.B)

I acknowledge that a record drawing signed by either a Professional Engineer or a Professional Land Surveyor depicting the as-constructed size, rim, and invert elevations of pipes, stormwater structures and culverts, and contours and flood storage volumes of all required basins of the major stormwater systems and minor stormwater systems shall be submitted for review and approval upon completion of the stormwater facilities.

_____ Ty Morris _____
Signature of Owner Print Name Date

18. Intentional Misrepresentation Under Penalty of Perjury

I declare that I have examined and/or made this application and rider, and it is true and correct to the best of my knowledge and belief. I realize that the information that I have affirmed hereon forms a basis for the issuance of the stormwater management certification(s) herein applied for and approval of plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any provision of any applicable ordinance or to excuse the owner or his successors in title from complying therewith. The Owner and Applicant each understand and agree to construct said improvement in compliance with all provisions of the applicable ordinances.

_____ Ty Morris _____
Signature of Applicant Print Name Date

_____ Ty Morris _____
Signature of Owner Print Name Date

DO NOT WRITE BELOW THIS LINE

19. Security (15-54)

Stormwater Facilities $ _____
Wetlands/Natural Area $ _____
SE/SC $ _____
Total $ _____

20. Stormwater Fees

Community Review $ _____
DCSM Review $ _____
Fee-in-Lieu $ _____ (Wetland) $ _____ (BMP)

Seal/Stamp
Certifications expire December 31st of the third year of Certification or Authorization, whichever is earlier.

21. Final Approvals (See Certification letter for special conditions and general conditions.)

Community Certification _____ (Date) _____ (Approved by/title)

County Authorization _____ (Date) _____ (Approved by/title)

_____ Community Copy _____ DuPage County SM Copy _____ Applicant Copy

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EXHIBIT 1B

LOCATION MAP

NAPERVILLE RIDGE

T38N, R10E, SEC. 27

CEMCON, Ltd.	PROJECT / CLIENT: Pulte Home Company, LLC 1900 E. Golf Road Suite 300 Schaumburg, IL 60173 847-230-5400	DRAWN BY:	JMH	11/20/'25
		CHECKED BY:		
		APPROVED:		
		SCALE: N.T.S.		

EXHIBIT 1C

FEMA FIRM PANEL 17043C0252J

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or flood plain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or flood plain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

In the State of Illinois, any portion of a stream or watercourse that lies within the **floodway fringe** of a studied (AE) stream may have a state regulated floodway. The FIRM may not depict these state regulated floodways.

Floodways restricted by anthropogenic features such as bridges and culverts are drawn to reflect natural conditions and may not agree with the model computed widths listed in the Floodway Data table in the Flood Insurance Study report.

Multiple **topographic sources** may have been used in the delineation of Special Flood Hazard Areas. See Flood Insurance Study report for details on source resolution and geographic extent.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 16. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services, NOAA, N/NGS12
National Geodetic Survey SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Cook County Board of Commissioners. Color digital orthoimages with a 6-inch pixel resolution were photogrammetrically compiled from aerial photography acquired during the leaf-off period of spring 2012.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The Special Flood Hazard Areas and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

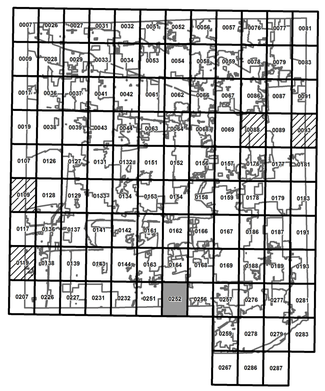
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

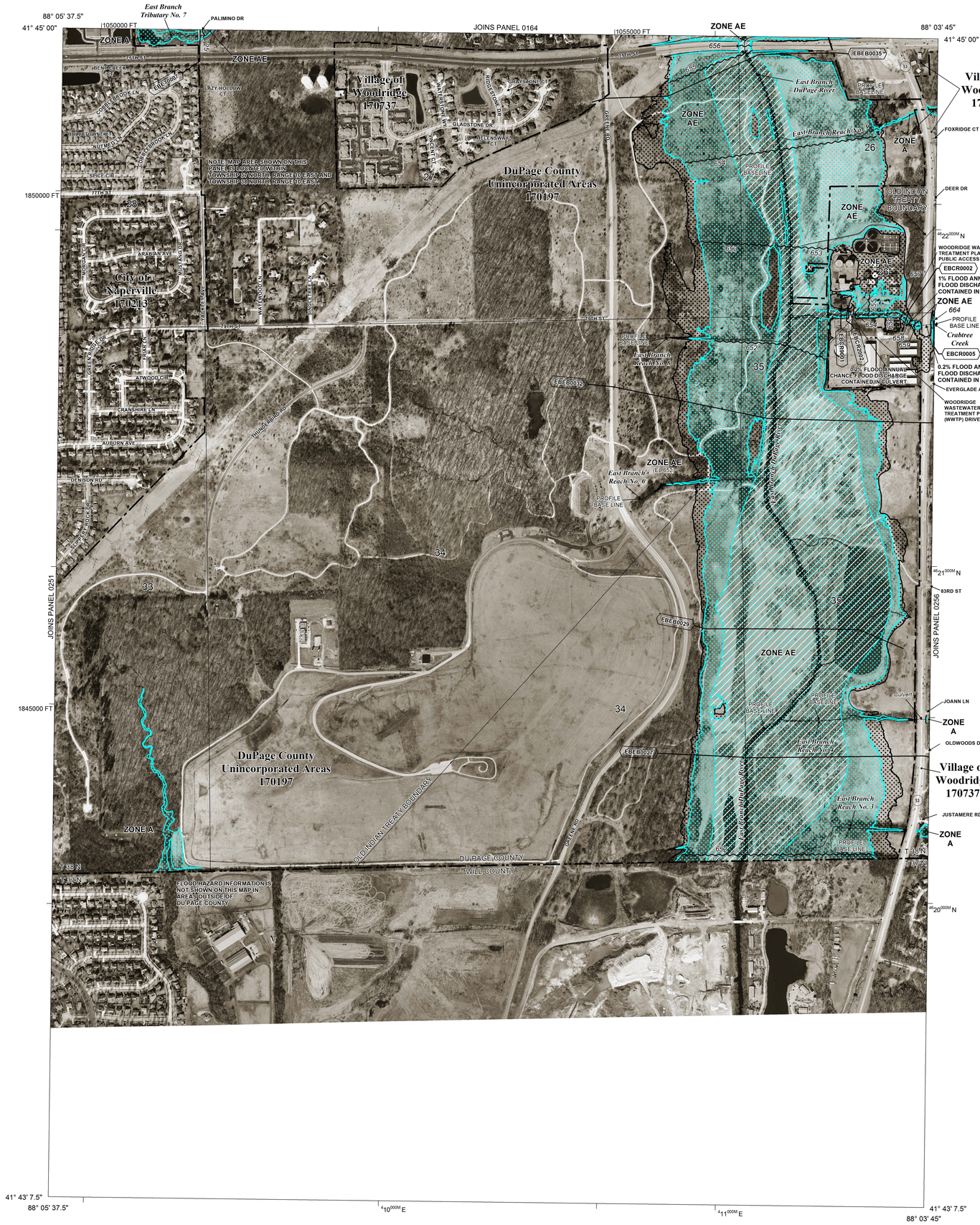
For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

PANEL INDEX



Panel Not Printed



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% annual chance floodplain boundary
	0.2% annual chance floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 — 23	Transect line
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4489000M N	1000-meter Universal Transverse Mercator grid values, zone 16
1565000 FT	5000-foot grid tick: Illinois State Plane East Coordinate System, 3776 zone (FIPSZONE 1201) Transverse Mercator
DX5510X	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
DECEMBER 16, 2004

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
August 1, 2019 - to change Special Flood Hazard Areas, to add Base Flood Elevations, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0252J

FIRM
FLOOD INSURANCE RATE MAP
DU PAGE COUNTY, ILLINOIS
AND INCORPORATED AREAS

PANEL 252 OF 287

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DU PAGE COUNTY	170197	0252	J
NAPERVILLE, CITY OF	170213	0252	J
WOODRIDGE, VILLAGE OF	170737	0252	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

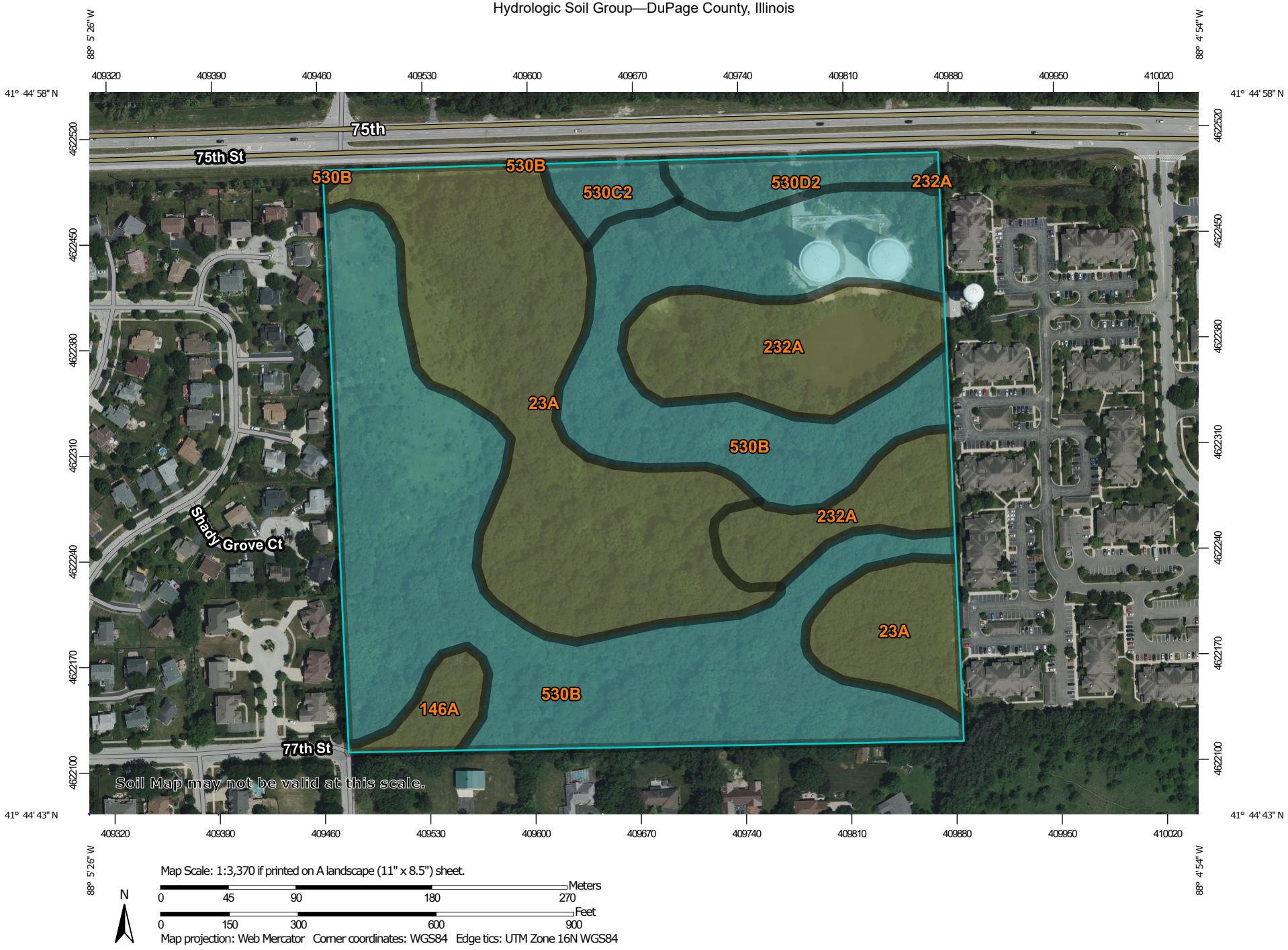
MAP NUMBER
17043C0252J

MAP REVISED
AUGUST 1, 2019

Federal Emergency Management Agency

EXHIBIT 1D

SOILS MAP



Map Scale: 1:3,370 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: DuPage County, Illinois
Survey Area Data: Version 21, Aug 31, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 13, 2020—Jul 6, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
23A	Blount silt loam, Lake Michigan Lobe, 0 to 2 percent slopes	C/D	11.4	28.8%
146A	Elliott silt loam, 0 to 2 percent slopes	C/D	0.8	2.0%
232A	Ashkum silty clay loam, 0 to 2 percent slopes	C/D	5.5	14.0%
530B	Ozaukee silt loam, 2 to 4 percent slopes	C	19.8	50.2%
530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded	C	0.8	1.9%
530D2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	C	1.2	3.1%
Totals for Area of Interest			**39.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

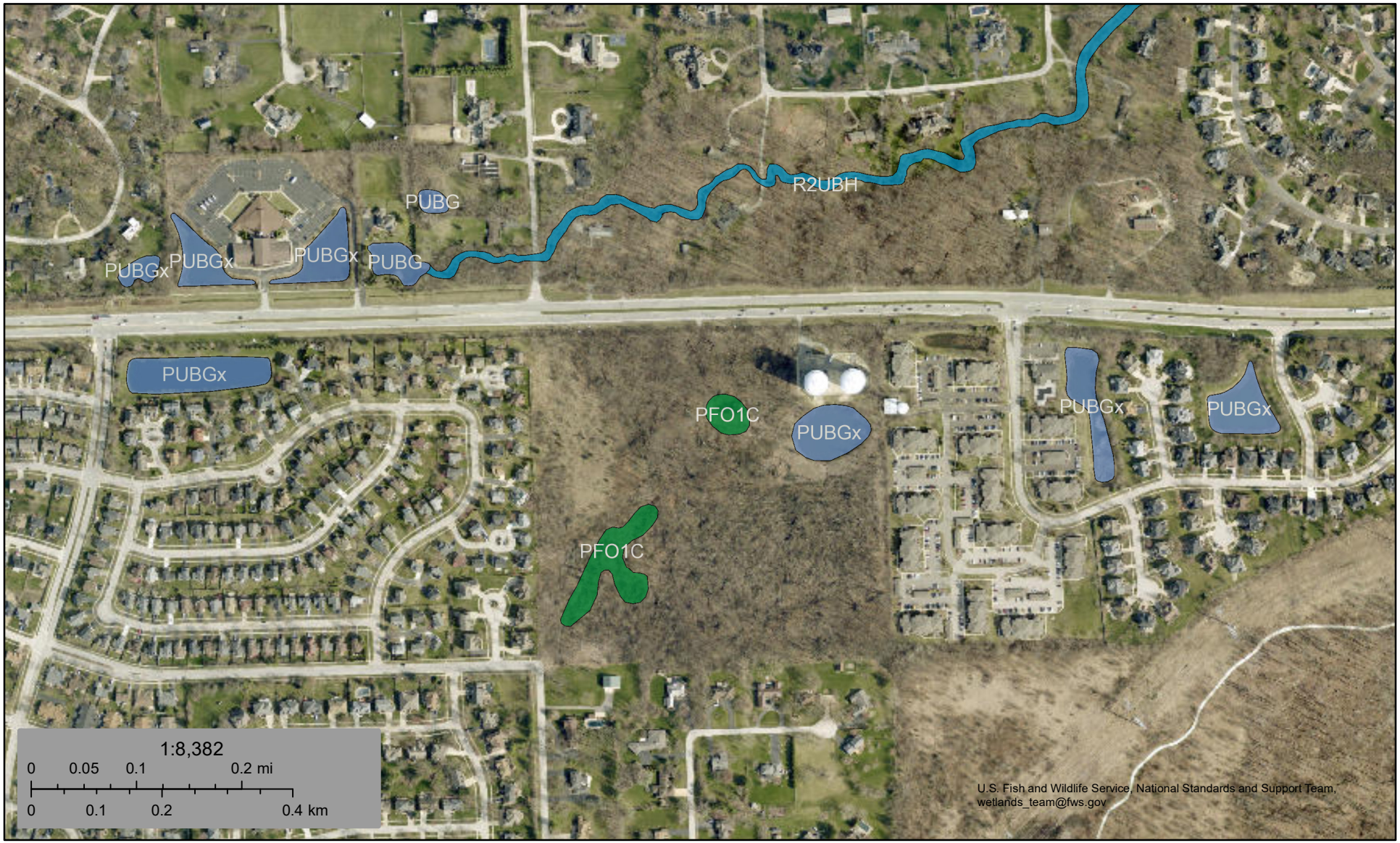
Tie-break Rule: Higher

EXHIBIT 1E

NATIONAL WETLANDS INVENTORY MAP

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



November 20, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

EXHIBIT 1F

RELEVANT PERMITS

Illinois Department of Natural Resources
JB Pritzker, Governor • Natalie Phelps Finnie, Director
One Natural Resources Way • Springfield, Illinois 62702-1271
www.dnr.illinois.gov

DuPage County
Woodridge
SE of 75th St & Palomino Dr
Section:27-Township:38N-Range:10E
CEMCON-402.181, IEPA
New Construction, Residential Development

PLEASE REFER TO: SHPO LOG #009061125

June 24, 2025

Paul Passi
CEMCON, Ltd.
2280 White Oak Circle, Suite 100
Aurora, IL 60502-9675

The Illinois State Historic Preservation Office is required by the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420, as amended, 17 IAC 4180) (Act) to review all state undertakings for their effect on cultural resources. Pursuant to this requirement, we have received information regarding the above referenced project for our comment.

According to the information provided there is no federal involvement in your project. Be aware the state law is less restrictive than the federal cultural resource laws concerning archaeology. If your project will use federal loans or grants, need federal agency permits, use federal property, or involve assistance from a federal agency, then your project must be reviewed under the National Historic Preservation Act of 1966, as amended. Please notify us immediately if such is the case so we can determine which entity should initiate consultation. Additional archaeological survey may be necessary.

No historic properties were identified within the area of potential visual effects. Additionally, our files do not identify any known archaeological sites within the area of potential direct effects, nor is it within a high probability area for archaeological resources as defined in the Act. Accordingly, this project is **EXEMPT** from archaeological survey requests pursuant to Section 6 of the Act. An archaeological survey is not *required* under state law as there is no public funding nor is it on public land.

Since the area has never been surveyed for archaeological resources, however, it is possible that historic properties are present but remain unidentified. Please consider assisting the State of Illinois in its efforts to preserve and protect historic resources by sharing with us the results of any due diligence archaeological surveys. Early awareness of the presence of historic properties may help prevent unanticipated discoveries and potential construction delays. Our most recently updated list of archaeological consultants is available on our website.

This letter remains in effect for two (2) years from the date of issuance. This does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Remains Protection Act (20 ILCS 3440). If further assistance is needed please contact Jeff Kruchten, Principal Archaeologist, at 217/785-1279 or jeff.kruchten@illinois.gov.

Sincerely,

Carey L. Mayer

Carey L. Mayer, AIA
Deputy State Historic Preservation Officer

Illinois Department of
Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
http://dnr.state.il.us

JB Pritzker, Governor
Natalie Phelps Finnie, Director

July 30, 2025

Caden LaFond
V3 Comapnies
7325 Janes Avenue, Woodridge IL
Woodridge, IL 60517

RE: 75th Street Parcel
Project Number(s): 2601353 [250597]
County: DuPage

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 is terminated.

However, the Department recommends no brush or tree clearing between May 1st and August 15th to avoid impacts to Black-billed Cuckoo (Coccyzus erythropthalmus).

This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Isabella Newingham

Isabella Newingham
Division of Ecosystems and Environment
217-785-5500

TAB 2

STORMWATER SUBMITTAL

EXHIBIT 2A

EXISTING CONDITIONS

WATERSHED EXHIBIT

EXISTING WATERSHED EXHIBIT

FOR

NAPERVILLE RIDGE

NAPERVILLE, ILLINOIS

N

100 50 0 100

SCALE: 1 INCH = 100 FEET

SUBAREA 001
8.36 Ac.
CN = 70.2
Tc = 0.42 Hr

SUBAREA 002
7.54 Ac.
CN = 71.3
Tc = 0.49 Hr

SUBAREA 003
7.19 Ac.
CN = 75.4
Tc = 0.52 Hr

SUBAREA 004
1.04 Ac.
CN = 73.2
Tc = 0.36 Hr

SUBAREA 005
5.73 Ac.
CN = 72.7
Tc = 0.62 Hr

SUBAREA 006
0.84 Ac.
CN = 70.0
Tc = 0.36 Hr

SUBAREA 007
2.03 Ac.
CN = 70.0
Tc = 0.67 Hr

SUBAREA 101
0.13 Ac.
CN = 79.5
Tc = 0.11 Hr

SUBAREA 102
6.58 Ac.
CN = 80.1
Tc = 0.17 Hr

SUBAREA 103
1.49 Ac.
CN = 79.0
Tc = 0.17 Hr

FAIRLANE FARMS
PER DOC# R63-13967

BRENWOOD UNIT NO. 3
PER DOC. 863753

BRENWOOD'
2ND ASSESSMENT PLAT
PER DOC. 913046

PALOMINO DRIVE (66') R.O.W.

75TH STREET

77TH STREET

LAZY HOLLOW COURT

COBBLEBROOK LANE

SHADY GROVE COURT

YACKLEY AVENUE

WAYEWOOD LANE

LOT 1

LOT 3

LOT 4

PREPARED FOR:

PULTE HOME COMPANY, LLC
1900 E. GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
(847) 230-5400

PREPARED BY:

CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60502-9675
PH: 630.862.2100 FAX: 630.862.2199
E-Mail: info@cemcon.com Website: www.cemcon.com

DISC NO.: 402181 FILE NAME: WATERSHED
DRAWN BY: LAL FLD. BK. / PG. NO.: ---
COMPLETION DATE: 11-21-25 JOB NO.: 402.181
XREF : PREOVR PROJECT MANAGER : CRM

03-18-26/LAL REVISED PER CITY REVIEW COMMENTS DATED 12/23/25

EXIST

PLOT FILE CREATED: 3/16/2026 BY: LESLIE LUNDBERG DRAWING PATH: P:\402181\DWG\ENG\DRAWINGS\EXHIBITS\WATERSHED.DWG

EXHIBIT 2B

EXISTING CONDITIONS

SUPPORTING DOCUMENTATION

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 10/31/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #001 - 8.36 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
C	Woods, Good Condition	70			6.37	445.9
C	Meadow	71			1.99	141.29
1/ Use only one CN source per line.				Totals =	8.36	587.190

CN (weighted) = Total Product / Total Area = 587.190 / 8.360 = 70.238

Use CN = 70.2

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 10/31/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #002 - 7.54 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Woods, Good Condition	70			7.20	504
	Impervious Space (Open Water)	98			0.34	33.32
1/ Use only one CN source per line.			Totals =		7.54	537.320

CN (weighted) = Total Product / Total Area = 537.320 / 7.540 = 71.263

Use CN = 71.3

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: ~~Present~~ Developed

Runoff Area #003 - 7.19 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Woods, Good Condition	70			5.81	406.7
	Impervious Space	98			0.33	32.34
	Impervious Space (Open Water)	98			1.05	102.9
1/ Use only one CN source per line.				Totals =	7.19	541.940

CN (weighted) = Total Product / Total Area = 541.940 / 7.190 = 75.374

Use CN = 75.4

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #004 - 1.04 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Woods, Good Condition	70			0.92	64.4
	Impervoius Space (Open Water)	98			0.12	11.76
1/ Use only one CN source per line.			Totals =		1.04	76.160

CN (weighted) = Total Product / Total Area = 76.160 / 1.040 = 73.231

Use CN = 73.2

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #005 - 5.73 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres / mi² / %	Product of CN x Area
"C"	Wood, Good Condition	70			5.18	362.6
	Impervious Space (Open Water)	98			0.55	53.9
1/ Use only one CN source per line.			Totals =		5.73	416.500

CN (weighted) = Total Product / Total Area = 416.500 / 5.730 = 72.688

Use CN = 72.7

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #006 - 0.84 Acres

1. Runoff curve number (CN)

		CN 1/			Area	
	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	Table 2-2	Fig. 2-3	Fig. 2-4	X acres __mi² __%	Product of CN x Area
"C"	Woods, Good Condition	70			0.84	58.8
1/ Use only one CN source per line.			Totals =		0.84	58.800

CN (weighted) = Total Product / Total Area = 58.800 / 0.840 = 70.000

Use CN = 70.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #006 - 2.03 Acres

1. Runoff curve number (CN)

		CN 1/			Area	
	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	Table 2-2	Fig. 2-3	Fig. 2-4	X acres __mi² __%	Product of CN x Area
"C"	Woods, Good Condition	70			2.03	142.1
1/ Use only one CN source per line.			Totals =		2.03	142.100

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{142.100}{2.030} = 70.000$$

Use CN = 70.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #101 - 0.13 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space (Good Condition)	74			0.10	7.4
	Impervious Area	98			0.03	2.94
1/ Use only one CN source per line.			Totals =		0.13	10.340

CN (weighted) = Total Product / Total Area = 10.340 / 0.130 = 79.538

Use CN = 79.5

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: (Present) Developed

Runoff Area #102 - 6.58 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Residental, 1 Acre Lots, Good Condition	79			6.21	490.59
	Impervious Space (Road)	98			0.37	36.26
1/ Use only one CN source per line.			Totals =		6.58	526.850

CN (weighted) = Total Product / Total Area = 526.850 / 6.580 = 80.068

Use CN = 80.1

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/3/2025
Location Woodridge, DuPage, Illinois Checked Date

Circle one: Present Developed

Runoff Area #103 - 1.49 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Residental, 1 Ace Lots, Good Condition	79			1.49	117.71

1/ Use only one CN source per line. Totals = 1.49 117.710

CN (weighted) = Total Product / Total Area = 117.710 / 1.490 = 79.000

Use CN = 79.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #001

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Woods, Light Underbrush				
2. Manning's roughness coeff., n (Table 3-1)		0.400				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0180				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\, s^{0.4}}$	hr	0.37	+		=	0.37

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		560.0'				
9. Watercourse slope, s		0.0286				
10. Average velocity, V (figure 3-1)		2.76				
11. $T_t = \frac{L}{3600\, V}$	hr	0.06	+		=	0.06

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\, r^{2/3}\, s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\, V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.42

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #002

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Woods, Light Underbrush				
2. Manning's roughness coeff., n (Table 3-1)		0.400				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0150				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr	0.39	+		=	0.39

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		810.0'				
9. Watercourse slope, s		0.0210				
10. Average velocity, V (figure 3-1)		2.36				
11. $T_t = \frac{L}{3600\,V}$	hr	0.10	+		=	0.10

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\,V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.49

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #003

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Woods, Light Underbrush				
2. Manning's roughness coeff., n (Table 3-1)		0.400				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0100				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\, s^{0.4}}$	hr	0.46	+		=	0.46

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		400.0'				
9. Watercourse slope, s		0.0218				
10. Average velocity, V (figure 3-1)		2.40				
11. $T_t = \frac{L}{3600\, V}$	hr	0.05	+		=	0.05

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\, r^{2/3}\, s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft	80				
19. $T_t = \frac{L}{3600\, V}$	hr	0.007	+		=	0.007

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.52

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #004

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)			Woods, Light Underbrush			
2. Manning's roughness coeff., n (Table 3-1)			0.400			
3. Flow length, L (total L ≤ 300 ft)		ft	100			
4. Two-yr 24-hr rainfall, P_2		in	3.34			
5. Land slope, s		ft/ft	0.0200			
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$		hr	0.35	+	=	0.35

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)			unpaved			
8. Flow length, L			70.0'			
9. Watercourse slope, s			0.0286			
10. Average velocity, V (figure 3-1)			2.76			
11. $T_t = \frac{L}{3600\,V}$		hr	0.01	+	=	0.01

Channel Flow		Segment ID				
12. Cross sectional flow area, a		ft^2				
13. Wetted perimeter, pw		ft				
14. Hydraulic radius, r= a/pw	compute r	ft				
15. Channel Slope, s		ft/ft				
16. Manning's roughness coeff., n						
17. $V = 1.49\,r^{2/3}\,s^{1/2} / n$		ft/s	3.00			
18. Flow length, L		ft				
19. $T_t = \frac{L}{3600\,V}$		hr		+	=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.36

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #005

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Woods, Light Underbrush				
2. Manning's roughness coeff., n (Table 3-1)		0.400				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0050				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\, s^{0.4}}$	hr	0.61	+		=	0.61

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		105.0'				
9. Watercourse slope, s		0.0210				
10. Average velocity, V (figure 3-1)		2.36				
11. $T_t = \frac{L}{3600\, V}$	hr	0.01	+		=	0.01

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\, r^{2/3}\, s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\, V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.62

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #006

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)			Woods, Light Underbrush			
2. Manning's roughness coeff., n (Table 3-1)			0.400			
3. Flow length, L (total L ≤ 300 ft)	ft		100			
4. Two-yr 24-hr rainfall, P_2	in		3.34			
5. Land slope, s	ft/ft		0.0200			
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr		0.35	+	=	0.35

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)			unpaved			
8. Flow length, L			85.0'			
9. Watercourse slope, s			0.0271			
10. Average velocity, V (figure 3-1)			2.68			
11. $T_t = \frac{L}{3600\,V}$	hr		0.01	+	=	0.01

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s		3.00			
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\,V}$	hr			+	=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.36

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #007

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Woods, Light Underbrush				
2. Manning's roughness coeff., n (Table 3-1)		0.400				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0050				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\, s^{0.4}}$	hr	0.61	+		=	0.61

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		245.0'				
9. Watercourse slope, s		0.0050				
10. Average velocity, V (figure 3-1)		1.15				
11. $T_t = \frac{L}{3600\, V}$	hr	0.06	+		=	0.06

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\, r^{2/3}\, s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\, V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.67

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #101

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Short Garss				
2. Manning's roughness coeff., n (Table 3-1)		0.150				
3. Flow length, L (total L ≤ 300 ft)	ft	75				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0300				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\, s^{0.4}}$	hr	0.11	+		=	0.11

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L						
9. Watercourse slope, s						
10. Average velocity, V (figure 3-1)						
11. $T_t = \frac{L}{3600\, V}$	hr		+		=	

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\, r^{2/3}\, s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\, V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19) hr 0.11

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #102

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Short Garss				
2. Manning's roughness coeff., n (Table 3-1)		0.150				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0300				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\, s^{0.4}}$	hr	0.14	+		=	0.14

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		250.0'				
9. Watercourse slope, s		0.0120				
10. Average velocity, V (figure 3-1)		1.78				
11. $T_t = \frac{L}{3600\, V}$	hr	0.04	+		=	0.04

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\, r^{2/3}\, s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\, V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.17

Worksheet 3: Time of Concentration (Tc)

Project	402.181	By	JMH	Date	11/3/2025
Location	Woodridge, DuPage, Illinois	Checked		Date	

Check one: ☑ Present ☐ Developed

Check one: ☑ Tc ☐ Tt

Runoff Area #103

NOTES: Space for as many as two segments per flow type can be used for each worksheet.
Include a map. schematic, or description of flow segments.

Sheet Flow (Applicable to Tc only)		Segment ID				
1. Surface Description (Table 3-1)		Short Garss				
2. Manning's roughness coeff., n (Table 3-1)		0.150				
3. Flow length, L (total L ≤ 300 ft)	ft	100				
4. Two-yr 24-hr rainfall, P_2	in	3.34				
5. Land slope, s	ft/ft	0.0200				
6. $Tc = \frac{0.007\,(nL)^{0.8}}{P_2^{0.5}\,s^{0.4}}$	hr	0.16	+		=	0.16

Shallow Concentrated Flow		Segment ID				
7. Surface description (paved or unpaved)		unpaved				
8. Flow length, L		120.0'				
9. Watercourse slope, s		0.0250				
10. Average velocity, V (figure 3-1)		2.58				
11. $T_t = \frac{L}{3600\,V}$	hr	0.01	+		=	0.01

Channel Flow		Segment ID				
12. Cross sectional flow area, a	ft^2					
13. Wetted perimeter, pw	ft					
14. Hydraulic radius, r= a/pw compute r	ft					
15. Channel Slope, s	ft/ft					
16. Manning's roughness coeff., n						
17. $V = 1.49\,r^{2/3}\,s^{1/2} / n$	ft/s	3.00				
18. Flow length, L	ft					
19. $T_t = \frac{L}{3600\,V}$	hr		+		=	

20. Watershed or subarea T_c or T_t (add T_t in steps 6, 11, and 19)	hr	0.17

Job #: 402.181
Project: 75th Street

Date: August 3, 2025
Revised: August 20, 2025
By: CMZ
Checked By:

WET 001				
BASIN STAGE/ STORAGE RELATIONSHIP				
ELEV.	AREA (S.F.)	AREA (AC.)	INCREM. VOLUME (AC.-Ft.)	**CUMULATIVE VOLUME (Ac-Ft)**
747.0	4,133	0.095	0.000	**0.000**
748.0	32,433	0.745	0.420	**0.420**
749.0	106,429	2.443	1.594	**2.014**

Job #: 402.181
Project: 75th Street

Date: August 3, 2025
Revised: August 20, 2025
By: CMZ
Checked By:

WET 002				
BASIN STAGE/ STORAGE RELATIONSHIP				
ELEV.	AREA (S.F.)	AREA (AC.)	INCREM. VOLUME (AC.-Ft.)	**CUMULATIVE VOLUME (Ac-Ft)**
737.0	3,440	0.079	0.000	**0.000**
738.0	13,267	0.305	0.192	**0.192**
739.0	25,326	0.581	0.443	**0.635**
740.0	38,250	0.878	0.730	**1.365**

Job #: 402.181
Project: 75th Street

Date: August 3, 2025
Revised: August 20, 2025
By: CMZ
Checked By:

WET 003				
BASIN STAGE/ STORAGE RELATIONSHIP				
ELEV.	AREA (S.F.)	AREA (AC.)	INCREM. VOLUME (AC.-Ft.)	**CUMULATIVE VOLUME (Ac-Ft)**
741.2	43,502	0.999	0.000	**0.000**
742.0	45,894.00	1.054	0.821	**0.821**
743.0	49,724.00	1.142	1.098	**1.918**

Job #: 402.181
Project: 75th Street

Date: November 19, 2025
Revised:
By: JMH
Checked By:

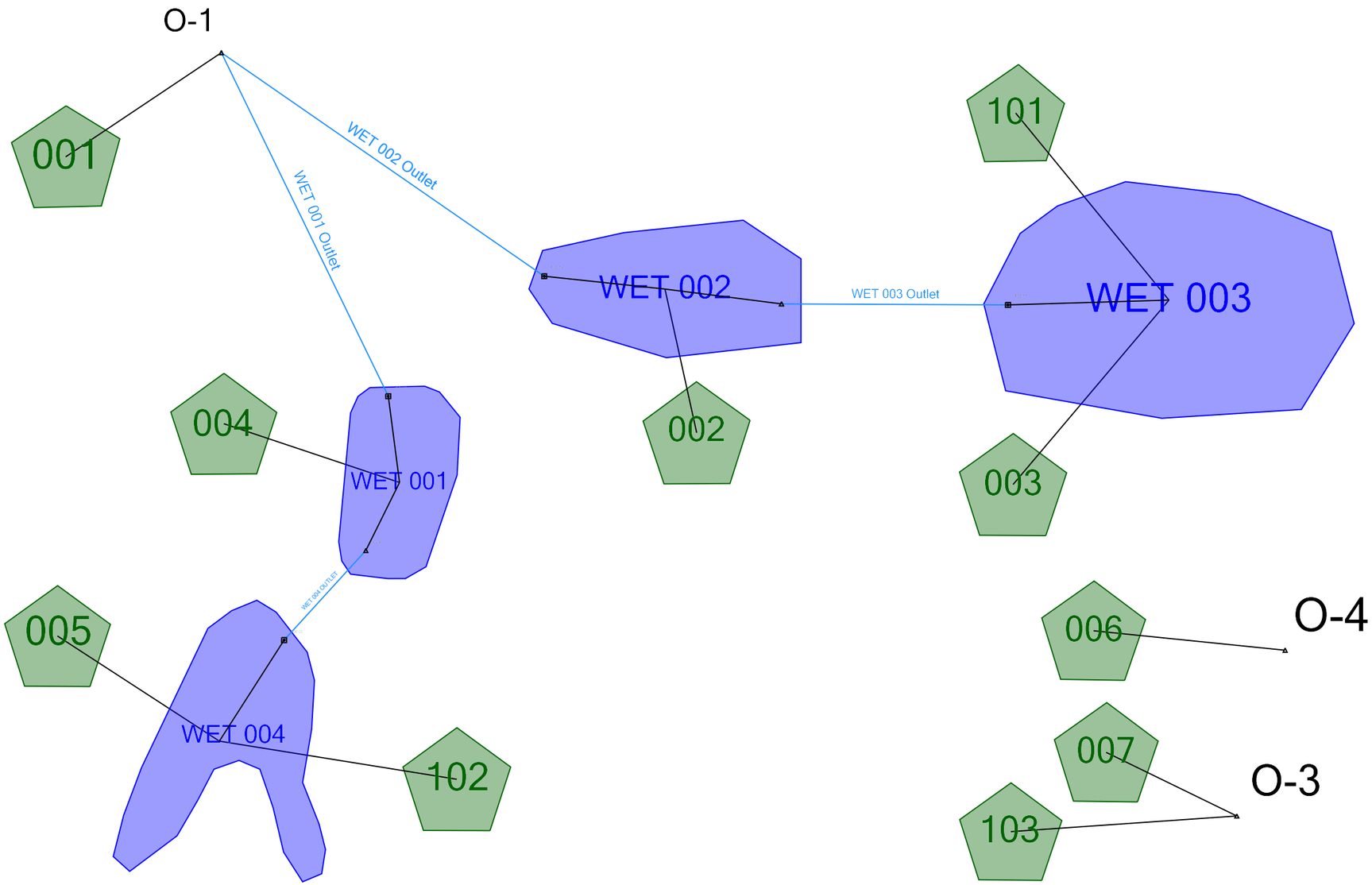
WET 004				
BASIN STAGE/ STORAGE RELATIONSHIP				
ELEV.	AREA (S.F.)	AREA (AC.)	INCREM. VOLUME (AC.-Ft.)	**CUMULATIVE VOLUME (Ac-Ft)**
748.2	23,820	0.547	0.000	**0.000**
749.0	73,670	1.691	0.895	**0.895**

EXHIBIT 2C

“EXIST” EXISTING CONDITIONS

PONDPACK MODEL

Scenario: 100YR-24HR



Scenario Calculation Summary

Scenario Summary	
ID	1
Label	100YR-24HR
Notes	
Active Topology	Base Active Topology
Hydrology	Base Hydrology
Rainfall Runoff	100YR-24HR
Physical	Base Physical
Initial Condition	Base Initial Condition
Boundary Condition	Base Boundary Condition
Infiltration and Inflow	Base Infiltration and Inflow
Output	Base Output
User Data Extensions	Base User Data Extensions
PondPack Engine Calculation Options	48-240

Output Summary			
Output Increment	0.100 hours	Duration	360.000 hours

Rainfall Summary			
Return Event Tag	100	Rainfall Type	Time-Depth Curve
Total Depth	8.6 in	Storm Event	100YR-24HR

ICPM Output Summary			
Target Convergence	0.00 ft³/s	ICPM Time Step	0.100 hours
Maximum Iterations	35		

Executive Summary (Nodes)

Label	Scenario	Return Event (years)	Truncation	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
001	100YR-24HR	100	None	3.471	16.100	5.03	(N/A)	(N/A)
002	100YR-24HR	100	None	3.213	16.100	4.61	(N/A)	(N/A)
003	100YR-24HR	100	None	3.360	16.100	4.66	(N/A)	(N/A)
004	100YR-24HR	100	None	0.463	16.000	0.66	(N/A)	(N/A)
005	100YR-24HR	100	None	2.522	16.100	3.57	(N/A)	(N/A)
006	100YR-24HR	100	None	0.347	16.000	0.50	(N/A)	(N/A)
007	100YR-24HR	100	None	0.839	16.200	1.21	(N/A)	(N/A)
101	100YR-24HR	100	None	0.066	16.000	0.09	(N/A)	(N/A)
102	100YR-24HR	100	None	3.385	16.000	4.55	(N/A)	(N/A)
103	100YR-24HR	100	None	0.750	16.000	1.02	(N/A)	(N/A)
O-1	100YR-24HR	100	None	16.438	16.100	23.00	(N/A)	(N/A)
O-3	100YR-24HR	100	None	1.589	16.000	2.22	(N/A)	(N/A)
O-4	100YR-24HR	100	None	0.347	16.000	0.50	(N/A)	(N/A)
WET 001 (IN)	100YR-24HR	100	None	6.370	16.100	8.70	(N/A)	(N/A)
WET 001 (OUT)	100YR-24HR	100	None	6.328	16.200	8.67	747.38	0.161
WET 002 (IN)	100YR-24HR	100	None	6.639	16.100	9.36	(N/A)	(N/A)
WET 002 (OUT)	100YR-24HR	100	None	6.639	16.200	9.32	738.83	0.560
WET 003 (IN)	100YR-24HR	100	None	3.426	16.100	4.75	(N/A)	(N/A)
WET 003 (OUT)	100YR-24HR	100	None	3.426	16.100	4.75	742.03	0.852
WET 004 (IN)	100YR-24HR	100	None	5.907	16.000	8.11	(N/A)	(N/A)
WET 004 (OUT)	100YR-24HR	100	None	5.907	16.100	8.04	748.48	0.311

Scenario Calculation Summary

Executive Summary (Links)

Label	Type	Location	Hydrograph Volume (ac-ft)	Peak Time (hours)	Peak Flow (ft^3/s)	End Point	Node Flow Direction
WET 001 Outlet	Pond Outlet	Upstream	6.370	16.100	8.70	WET 001	Pond Inflow
WET 001 Outlet	Pond Outlet	Outflow	6.328	16.200	8.67	WET 001	Pond Outflow
WET 001 Outlet	Pond Outlet	Link	6.328	16.200	8.67		
WET 001 Outlet	Pond Outlet	Downstream	16.438	16.100	23.00	O-1	
WET 002 Outlet	Pond Outlet	Upstream	6.639	16.100	9.36	WET 002	Pond Inflow
WET 002 Outlet	Pond Outlet	Outflow	6.639	16.200	9.32	WET 002	Pond Outflow
WET 002 Outlet	Pond Outlet	Link	6.639	16.200	9.32		
WET 002 Outlet	Pond Outlet	Downstream	16.438	16.100	23.00	O-1	
WET 003 Outlet	Pond Outlet	Upstream	3.426	16.100	4.75	WET 003	Pond Inflow
WET 003 Outlet	Pond Outlet	Outflow	3.426	16.100	4.75	WET 003	Pond Outflow
WET 003 Outlet	Pond Outlet	Link	3.426	16.100	4.75		
WET 003 Outlet	Pond Outlet	Downstream	6.639	16.100	9.36	WET 002	
WET 004 OUTLET	Pond Outlet	Upstream	5.907	16.000	8.11	WET 004	Pond Inflow
WET 004 OUTLET	Pond Outlet	Outflow	5.907	16.100	8.04	WET 004	Pond Outflow
WET 004 OUTLET	Pond Outlet	Link	5.907	16.100	8.04		
WET 004 OUTLET	Pond Outlet	Downstream	6.370	16.100	8.70	WET 001	

Messages

Message Id	67
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	258
Label	WET 001 Outlet
Time	(N/A)
Message	Flow direction set to reverse for one ore more structures in composite outlet structure WET 001 Outlet. To eliminate this warning, edit outlet data and select forward only. If reverse flow analysis is required, then the tailwater conditions must be set to interconnected pond.
Source	Warning
Message Id	39
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	286
Label	WET 004 Outlet
Time	(N/A)
Message	Reverse flow conditions encountered for one or more headwater elevations. Calculated reverse flows may be approximate.
Source	Warning

Table of Contents

Time-Depth Curve: 100YR-24HR	
Label	100YR-24HR
Start Time	0.000 hours
Increment	1.000 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 1.000 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.2	0.4	0.6	0.8
5.000	1.0	1.2	1.4	1.7	2.0
10.000	2.3	2.7	3.1	3.8	4.5
15.000	5.2	6.0	6.7	7.3	7.7
20.000	8.0	8.2	8.3	8.4	8.6

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.420 hours
Area (User Defined)	8.360 acres

Computational Time Increment	0.056 hours
Time to Peak (Computed)	16.072 hours
Flow (Peak, Computed)	5.03 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.100 hours
Flow (Peak Interpolated Output)	5.03 ft³/s

Drainage Area	
SCS CN (Composite)	70.200
Area (User Defined)	8.360 acres
Maximum Retention (Pervious)	4.2 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	3.471 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3.471 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.420 hours
Computational Time Increment	0.056 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.55 ft³/s
Unit peak time, Tp	0.280 hours
Unit receding limb, Tr	1.120 hours
Total unit time, Tb	1.400 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.490 hours
Area (User Defined)	7.540 acres

Computational Time Increment	0.065 hours
Time to Peak (Computed)	16.072 hours
Flow (Peak, Computed)	4.61 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.100 hours
Flow (Peak Interpolated Output)	4.61 ft³/s

Drainage Area	
SCS CN (Composite)	71.300
Area (User Defined)	7.540 acres
Maximum Retention (Pervious)	4.0 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.1 in
Runoff Volume (Pervious)	3.213 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3.213 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.490 hours
Computational Time Increment	0.065 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.43 ft³/s
Unit peak time, Tp	0.327 hours
Unit receding limb, Tr	1.307 hours
Total unit time, Tb	1.633 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.520 hours
Area (User Defined)	7.190 acres

Computational Time Increment	0.069 hours
Time to Peak (Computed)	16.085 hours
Flow (Peak, Computed)	4.67 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.100 hours
Flow (Peak Interpolated Output)	4.66 ft³/s

Drainage Area	
SCS CN (Composite)	75.400
Area (User Defined)	7.190 acres
Maximum Retention (Pervious)	3.3 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.6 in
Runoff Volume (Pervious)	3.360 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3.360 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.520 hours
Computational Time Increment	0.069 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.67 ft³/s
Unit peak time, Tp	0.347 hours
Unit receding limb, Tr	1.387 hours
Total unit time, Tb	1.733 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.360 hours
Area (User Defined)	1.040 acres

Computational Time Increment	0.048 hours
Time to Peak (Computed)	16.032 hours
Flow (Peak, Computed)	0.66 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.66 ft³/s

Drainage Area	
SCS CN (Composite)	73.200
Area (User Defined)	1.040 acres
Maximum Retention (Pervious)	3.7 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.3 in
Runoff Volume (Pervious)	0.463 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.463 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.360 hours
Computational Time Increment	0.048 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.27 ft³/s
Unit peak time, Tp	0.240 hours
Unit receding limb, Tr	0.960 hours
Total unit time, Tb	1.200 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.620 hours
Area (User Defined)	5.730 acres

Computational Time Increment	0.083 hours
Time to Peak (Computed)	16.120 hours
Flow (Peak, Computed)	3.57 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.100 hours
Flow (Peak Interpolated Output)	3.57 ft³/s

Drainage Area	
SCS CN (Composite)	72.700
Area (User Defined)	5.730 acres
Maximum Retention (Pervious)	3.8 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.3 in
Runoff Volume (Pervious)	2.522 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.522 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.620 hours
Computational Time Increment	0.083 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.47 ft³/s
Unit peak time, Tp	0.413 hours
Unit receding limb, Tr	1.653 hours
Total unit time, Tb	2.067 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.360 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.048 hours
Time to Peak (Computed)	16.032 hours
Flow (Peak, Computed)	0.51 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	70.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	4.3 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.347 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.347 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.360 hours
Computational Time Increment	0.048 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.64 ft³/s
Unit peak time, Tp	0.240 hours
Unit receding limb, Tr	0.960 hours
Total unit time, Tb	1.200 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.670 hours
Area (User Defined)	2.030 acres

Computational Time Increment	0.089 hours
Time to Peak (Computed)	16.169 hours
Flow (Peak, Computed)	1.21 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.200 hours
Flow (Peak Interpolated Output)	1.21 ft³/s

Drainage Area	
SCS CN (Composite)	70.000
Area (User Defined)	2.030 acres
Maximum Retention (Pervious)	4.3 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.839 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.839 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.670 hours
Computational Time Increment	0.089 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.43 ft³/s
Unit peak time, Tp	0.447 hours
Unit receding limb, Tr	1.787 hours
Total unit time, Tb	2.233 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.110 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.015 hours
Time to Peak (Computed)	16.001 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	79.500
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	2.6 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.1 in
Runoff Volume (Pervious)	0.066 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.066 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.110 hours
Computational Time Increment	0.015 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.34 ft³/s
Unit peak time, Tp	0.073 hours
Unit receding limb, Tr	0.293 hours
Total unit time, Tb	0.367 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.170 hours
Area (User Defined)	6.580 acres

Computational Time Increment	0.023 hours
Time to Peak (Computed)	16.003 hours
Flow (Peak, Computed)	4.55 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	4.55 ft³/s

Drainage Area	
SCS CN (Composite)	80.100
Area (User Defined)	6.580 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.2 in
Runoff Volume (Pervious)	3.385 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3.385 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.170 hours
Computational Time Increment	0.023 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.86 ft³/s
Unit peak time, Tp	0.113 hours
Unit receding limb, Tr	0.453 hours
Total unit time, Tb	0.567 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.170 hours
Area (User Defined)	1.490 acres

Computational Time Increment	0.023 hours
Time to Peak (Computed)	16.003 hours
Flow (Peak, Computed)	1.02 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	1.02 ft³/s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	1.490 acres
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.750 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.750 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.170 hours
Computational Time Increment	0.023 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.93 ft³/s
Unit peak time, Tp	0.113 hours
Unit receding limb, Tr	0.453 hours
Total unit time, Tb	0.567 hours

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
747.00	0.000
748.00	0.420
749.00	2.014

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
737.00	0.000
738.00	0.192
739.00	0.635
740.00	1.365

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
741.20	0.000
742.00	0.821
743.00	1.918

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
748.20	0.000
749.00	0.895

Requested Pond Water Surface Elevations	
Minimum (Headwater)	747.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	749.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	User Defined Rating Table - 1	Forward	TW	0.00	749.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: User Defined Rating Table - 1
Structure Type: User Defined Table

Elevation (ft)	Flow (ft³/s)
747.00	0.00
747.10	0.00
747.20	1.22
747.30	4.32
747.40	9.48
747.50	16.96
747.60	27.03
747.70	39.98
747.80	56.04
747.90	75.49
748.00	98.55
748.10	125.47
748.20	156.48
748.30	191.78
748.40	231.62
748.50	276.19
748.60	325.70
748.70	380.36
748.80	440.36
748.90	505.91
749.00	577.20

Structure ID: TW
Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	737.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	740.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	User Defined Rating Table - 1	Forward	TW	0.00	740.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: User Defined Rating Table - 1
Structure Type: User Defined Table

Elevation (ft)	Flow (ft³/s)
737.00	0.00
737.10	0.00
737.20	0.00
737.30	0.00
737.40	0.00
737.50	0.00
737.60	0.00
737.70	0.00
737.80	0.00
737.90	0.00
738.00	0.00
738.10	0.00
738.20	0.23
738.30	0.79
738.40	1.64
738.50	2.82
738.60	4.34
738.70	6.22
738.80	8.50
738.90	11.20
739.00	14.34
739.10	17.95
739.20	22.05
739.30	26.66
739.40	31.81
739.50	37.51
739.60	43.80
739.70	50.69
739.80	58.20
739.90	66.36
740.00	75.18

Structure ID: TW
Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	741.20 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	743.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	User Defined Rating Table - 1	Forward	TW	0.00	743.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: User Defined Rating Table - 1
Structure Type: User Defined Table

Elevation (ft)	Flow (ft³/s)
741.20	0.00
741.30	0.00
741.40	0.00
741.50	0.00
741.60	0.00
741.70	0.00
741.80	0.00
741.90	0.00
742.00	0.00
742.10	16.56
742.20	53.21
742.30	105.96
742.40	173.48
742.50	255.17
742.60	350.74
742.70	460.10
742.80	583.26
742.90	720.31
743.00	871.40

Structure ID: TW
Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	748.20 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	749.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	Weir - 1	Forward + Reverse	TW	748.20	749.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: Weir - 1
Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	749.00
100.00	748.20
143.00	749.00

Lowest Elevation	748.20 ft
Weir Coefficient	3.00 (ft^0.5)/s

Index

EXHIBIT 2D

PROPOSED CONDITIONS

WATERSHED EXHIBIT

PROPOSED WATERSHED EXHIBIT

FOR

NAPERVILLE RIDGE

NAPERVILLE, ILLINOIS

N

100 50 0 100

SCALE: 1 INCH = 100 FEET

SUBAREA 010
0.36 Ac.
CN = 74.0
Tc = 0.08 Hr

SUBAREA 011
0.16 Ac.
CN = 74.0
Tc = 0.10 Hr

SUBAREA 020
0.24 Ac.
CN = 70.0
Tc = 0.25 Hr

SUBAREA 021
0.42 Ac.
CN = 70.0
Tc = 0.25 Hr

SUBAREA 001
7.09 Ac.
CN = 87.4
Tc = 0.25 Hr

SUBAREA 022
2.28 Ac.
CN = 74.2
Tc = 0.25 Hr

SUBAREA 013
0.49 Ac.
CN = 74.0
Tc = 0.10 Hr

SUBAREA 023
2.09 Ac.
CN = 88.4
Tc = 0.20 Hr

SUBAREA 005
1.01 Ac.
CN = 81.1
Tc = 0.15 Hr

SUBAREA 012
0.24 Ac.
CN = 74.0
Tc = 0.10 Hr

SUBAREA 004
0.19 Ac.
CN = 86.6
Tc = 0.08 Hr

SUBAREA 002
11.29 Ac.
CN = 87.0
Tc = 0.25 Hr

SUBAREA 003
0.29 Ac.
CN = 74.0
Tc = 0.08 Hr

SUBAREA 026
5.60 Ac.
CN = 72.8
Tc = 0.30 Hr

SUBAREA 025
0.86 Ac.
CN = 74.6
Tc = 0.15 Hr

SUBAREA 024
0.48 Ac.
CN = 70.0
Tc = 0.15 Hr

SUBAREA 007
0.40 Ac.
CN = 80.0
Tc = 0.15 Hr

SUBAREA 006
0.59 Ac.
CN = 86.2
Tc = 0.15 Hr

PALOMINO DRIVE
75TH STREET
77TH STREET
LAZY HOLLOW COURT
COBBLEBROOK LANE
SHADY GROVE COURT
YACKLEY AVENUE
ROAD A LANE
ROAD B DRIVE
WAYEWOOD LANE
OUTLOT A CONSERVATION AREA
OUTLOT B CONSERVATION AREA
OUTLOT C PARK SITE
OUTLOT D
OUTLOT E
OUTLOT F
OUTLOT G
OUTLOT H
OUTLOT I STORMWATER MANAGEMENT
OUTLOT J STORMWATER MANAGEMENT
FAIRLANE FARMS PER DOC. R63-13967
BRENWOOD UNIT NO. 3 PER DOC. 863753
BRENWOOD' 2ND ASSESSMENT PLAT PER DOC. 913046
DRAINAGE EASEMENT PER DOC. R78-033573
LOT 3

PREPARED FOR:

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DISC NO.: 402181 FILE NAME: WATERSHED
DRAWN BY: LAL FLD. BK. / PG. NO.: ---
COMPLETION DATE: 11-21-25 JOB NO.: 402.181
XREF : PREOVR PROJECT MANAGER : CRM

03-18-26/LAL REVISED PER CITY REVIEW COMMENTS DATED 12/23/25
PROP

PLOT FILE CREATED: 5/22/2026 BY: LESLIE LUNDBERG DRAWING PATH: P:\402181\DWG\ENG\DRAWINGS\EXHIBITS\WATERSHED.DWG

EXHIBIT 2E

PROPOSED CONDITIONS

SUPPORTING DOCUMENTATION

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #001 - 7.09 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space	74			2.66	196.84
"C"	Blue-Green Area	86			0.94	80.84
"C"	Impervious Area - NWL, Paved Areas, Buildings	98			3.49	342.02
1/ Use only one CN source per line.			Totals =		7.09	619.700

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{619.700}{7.090} = 87.405$$

Use CN = 87.4

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #002 - 11.29 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Open Space, Good Condition	74			4.78	353.72
"C"	Blue-Green Area	86			0.78	67.08
"C"	Impervious Area - NWL, Paved Areas, Buildings	98			5.73	561.54
1/ Use only one CN source per line.			Totals =		11.29	982.340

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{982.340}{11.290} = 87.010$$

Use CN = 87.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/19/2025
Location Woodridge, DuPage, Illinois Checked CMZ Date 3/12/2026

Circle one: Present (Developed)

Runoff Area #003 - 0.29 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Open Space (Good Condition)	74			0.29	21.46
1/ Use only one CN source per line.			Totals =		0.29	21.460

CN (weighted) = Total Product / Total Area = 21.460 / 0.290 = 74.000

Use CN = 74.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #004 - 0.19 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space (Good Condition)	74			0.09	6.66
"C"	Impervious Area - Building	98			0.10	9.8
1/ Use only one CN source per line.			Totals =		0.19	16.460

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{16.460}{0.190} = 86.632$$

Use CN = 86.6

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #005 - 1.01 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Open Space, Good Condition	74			0.71	52.54
"C"	Impervious Area - Building	98			0.30	29.4
1/ Use only one CN source per line.			Totals =		1.01	81.940

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{81.940}{1.010} = 81.129$$

Use CN = 81.1

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #006 - 0.59 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Open Space, Good Condition	74			0.29	21.46
"C"	Impervious Space - buildings	98			0.30	29.4
1/ Use only one CN source per line.			Totals =		0.59	50.860

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{50.860}{0.590} = 86.203$$

Use CN = 86.2

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #007 - 0.40 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space, Good Condition	74			0.30	22.2
"C"	Impervious Space - buildings	98			0.10	9.8
1/ Use only one CN source per line.			Totals =		0.40	32.000

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{32.000}{0.400} = 80.000$$

Use CN = 80.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #010 - 0.36 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space, Good Condition	74			0.36	26.64
1/ Use only one CN source per line.			Totals =		0.36	26.640

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{26.640}{0.360} = 74.000$$

Use CN = 74.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/19/2025
Location Woodridge, DuPage, Illinois Checked CMZ Date 3/12/2026

Circle one: Present (Developed)

Runoff Area #011 - 0.16 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space, Good Condition	74			0.16	11.84
1/ Use only one CN source per line.			Totals =		0.16	11.840

CN (weighted) = Total Product / Total Area = 11.840 / 0.160 = 74.000

Use CN = 74.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #012 - 0.24 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space, Good Condition	74			0.24	17.76
1/ Use only one CN source per line.			Totals =		0.24	17.760

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{17.760}{0.240} = 74.000$$

Use CN = 74.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #011 - 0.49 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Open Space, Good Condition	74			0.49	36.26
1/ Use only one CN source per line.			Totals =		0.49	36.260

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{36.260}{0.490} = 74.000$$

Use CN = 74.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/19/2025
Location Woodridge, DuPage, Illinois Checked CMZ Date 3/12/2026

Circle one: Present (Developed)

Runoff Area #020 - 0.24 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Woods (Good Condition)	70			0.24	16.8
1/ Use only one CN source per line.			Totals =		0.24	16.800

CN (weighted) = Total Product / Total Area = 16.800 / 0.240 = 70.000

Use CN = 70.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #021 - 0.42 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Woods (Good Condition)	70			0.42	29.4
1/ Use only one CN source per line.			Totals =		0.42	29.400

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{29.400}{0.420} = 70.000$$

Use CN = 70.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #022 - 2.28 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Woods (Good Condition)	70			1.94	135.8
"C"	Impervious Space (Open Water)	98			0.34	33.32
1/ Use only one CN source per line.			Totals =		2.28	169.120

CN (weighted) = Total Product / Total Area = 169.120 / 2.280 = 74.175

Use CN = 74.2

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #023 - 2.09 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Woods (Good Condition)	70			0.72	50.4
"C"	Impervious Space (Open Water, pavement)	98			1.37	134.26
1/ Use only one CN source per line.			Totals =		2.09	184.660

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{184.660}{2.090} = 88.354$$

Use CN = 88.4

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #024 - 0.48 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area (X acres / mi² / %)	Product of CN x Area
"C"	Woods (Good Condition)	70			0.48	33.6
1/ Use only one CN source per line.			Totals =		0.48	33.600

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{33.600}{0.480} = 70.000$$

Use CN = 70.0

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project	402.181	By	JMH	Date	11/19/2025
Location	Woodridge, DuPage, Illinois	Checked	CMZ	Date	3/12/2026

Circle one: Present (Developed)

Runoff Area #025 - 0.86 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Woods (Good Condition)	70			0.72	50.4
"C"	Impervious Space (Open Water)	98			0.14	13.72
1/ Use only one CN source per line.			Totals =		0.86	64.120

$$\text{CN (weighted)} = \frac{\text{Total Product}}{\text{Total Area}} = \frac{64.120}{0.860} = 74.558$$

Use CN = 74.6

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Worksheet 2: Runoff Curve Number and Runoff

Project 402.181 By JMH Date 11/19/2025
Location Woodridge, DuPage, Illinois Checked CMZ Date 3/12/2026

Circle one: Present (Developed)

Runoff Area #026 - 5.60 Acres

1. Runoff curve number (CN)

Soil Name* and Hydrologic Group	Cover Description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area X acres __mi² __%	Product of CN x Area
"C"	Woods (Good Condition)	70			5.05	353.5
"C"	Impervious Space (Open Water)	98			0.55	53.9
1/ Use only one CN source per line.			Totals =		5.60	407.400

CN (weighted) = Total Product / Total Area = 407.400 / 5.600 = 72.750

Use CN = 72.8

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency	yr			
Rainfall	in			
Runoff, Q	in			

(Use P and CN with table 2-1, fig. 2-1, or eqs. 2-3 and 2-4.)

**** See soils legend for soil types***

Job #: 402.181
Project: Naperville Ridge

Date: November 19, 2025
Revised: April 16, 2026
By: JMH
CMZ

PROPOSED SWMF-001				
BASIN STAGE/ STORAGE RELATIONSHIP				
ELEV.	AREA (S.F.)	AREA (AC.)	INCREM. VOLUME (AC.-Ft.)	**CUMULATIVE VOLUME (Ac-Ft)**
732.0	53168	1.221	0.000	**0.000**
733.0	59635	1.369	1.295	**1.295**
734.0	66474	1.526	1.448	**2.742**
735.0	73612	1.690	1.608	**4.350**
736.0	81020	1.860	1.775	**6.125**
737.0	88747	2.037	1.949	**8.074**
737.8	95049	2.182	1.688	**9.762**
738.0	96648	2.219	0.440	**10.202**

Job #: 402.181
Project: Naperville Ridge

Date: November 19, 2025
Revised: April 16, 2026
By: JMH
CMZ

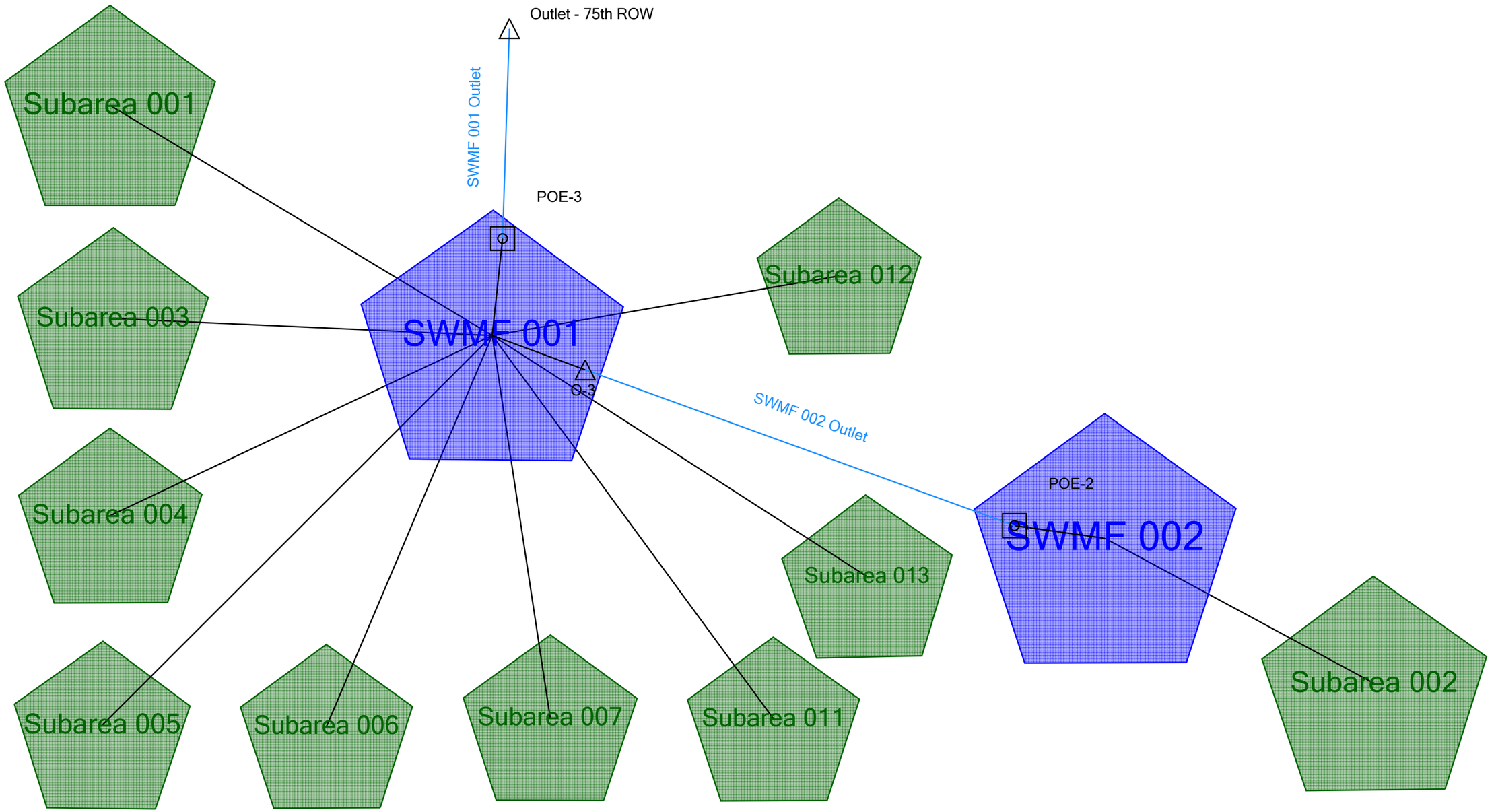
PROPOSED SWMF-002				
BASIN STAGE/ STORAGE RELATIONSHIP				
ELEV.	AREA (S.F.)	AREA (AC.)	INCREM. VOLUME (AC.-Ft.)	**CUMULATIVE VOLUME (Ac-Ft)**
744.0	22180	0.509	0.000	**0.000**
745.0	29180	0.670	0.590	**0.590**
746.0	36536	0.839	0.754	**1.344**
747.0	44309	1.017	0.928	**2.272**
748.0	52380	1.202	1.110	**3.382**
748.6	57360	1.317	0.756	**4.137**
749.0	60729	1.394	0.542	**4.680**
749.5	64998	1.492	0.722	**5.401**

EXHIBIT 2F

“DEV-ONLY” PROPOSED CONDITIONS

PONDPACK MODEL & OUTPUT

Scenario: 100Yr-24Hr



Scenario Calculation Summary

Scenario Summary	
ID	1
Label	100Yr-24Hr
Notes	
Active Topology	Base Active Topology
Hydrology	Base Hydrology
Rainfall Runoff	100Yr 24Hr RR
Physical	Base Physical
Initial Condition	Base Initial Condition
Boundary Condition	Base Boundary Condition
Infiltration and Inflow	Base Infiltration and Inflow
Output	Base Output
User Data Extensions	Base User Data Extensions
PondPack Engine Calculation Options	72Hr Simluation - Typical

Output Summary			
Output Increment	0.050 hours	Duration	72.000 hours

Rainfall Summary			
Return Event Tag	100	Rainfall Type	Time-Depth Curve
Total Depth	8.6 in	Storm Event	100YR-24HR

Executive Summary (Nodes)

Label	Scenario	Return Event (years)	Truncation	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
Outlet - 75th ROW	100Yr-24Hr	100	None	9.717	29.550	2.14	(N/A)	(N/A)
SWMF 001 (IN)	100Yr-24Hr	100	None	12.415	16.000	9.71	(N/A)	(N/A)
SWMF 001 (OUT)	100Yr-24Hr	100	None	9.717	29.550	2.14	736.24	6.596
SWMF 002 (IN)	100Yr-24Hr	100	None	6.591	16.000	8.27	(N/A)	(N/A)
SWMF 002 (OUT)	100Yr-24Hr	100	None	6.528	20.250	2.48	748.56	4.092
Subarea 001	100Yr-24Hr	100	None	4.168	16.000	5.21	(N/A)	(N/A)
Subarea 002	100Yr-24Hr	100	None	6.591	16.000	8.27	(N/A)	(N/A)
Subarea 003	100Yr-24Hr	100	None	0.131	16.000	0.19	(N/A)	(N/A)
Subarea 004	100Yr-24Hr	100	None	0.110	16.000	0.14	(N/A)	(N/A)
Subarea 005	100Yr-24Hr	100	None	0.530	16.000	0.71	(N/A)	(N/A)
Subarea 006	100Yr-24Hr	100	None	0.340	16.000	0.43	(N/A)	(N/A)
Subarea 007	100Yr-24Hr	100	None	0.205	16.000	0.28	(N/A)	(N/A)
Subarea 011	100Yr-24Hr	100	None	0.073	16.000	0.10	(N/A)	(N/A)
Subarea 012	100Yr-24Hr	100	None	0.109	16.000	0.15	(N/A)	(N/A)
Subarea 013	100Yr-24Hr	100	None	0.222	16.000	0.32	(N/A)	(N/A)

Executive Summary (Links)

Label	Type	Location	Hydrograph Volume (ac-ft)	Peak Time (hours)	Peak Flow (ft^3/s)	End Point	Node Flow Direction
SWMF 001 Outlet	Pond Outlet	Upstream	12.415	16.000	9.71	SWMF 001	Pond Inflow
SWMF 001 Outlet	Pond Outlet	Outflow	9.717	29.550	2.14	SWMF 001	Pond Outflow
SWMF 001 Outlet	Pond Outlet	Link	9.717	29.550	2.14		

Scenario Calculation Summary

Executive Summary (Links)

Label	Type	Location	Hydrograph Volume (ac-ft)	Peak Time (hours)	Peak Flow (ft^3/s)	End Point	Node Flow Direction
SWMF 001 Outlet	Pond Outlet	Downstream	9.717	29.550	2.14	Outlet - 75th ROW	
SWMF 002 Outlet	Pond Outlet	Upstream	6.591	16.000	8.27	SWMF 002	Pond Inflow
SWMF 002 Outlet	Pond Outlet	Outflow	6.528	20.250	2.48	SWMF 002	Pond Outflow
SWMF 002 Outlet	Pond Outlet	Link	6.528	20.250	2.48		
SWMF 002 Outlet	Pond Outlet	Downstream	12.415	16.000	9.71	SWMF 001	

Messages

Message Id	67
Scenario	100Yr-24Hr
Element Type	Composite Outlet Structure
Element Id	20
Label	SWMF 001 Outlet Structure
Time	(N/A)
Message	Flow direction set to reverse for one ore more structures in composite outlet structure SWMF 001 Outlet Structure. To eliminate this warning, edit outlet data and select forward only. If reverse flow analysis is required, then the tailwater conditions must be set to interconnected pond.
Source	Warning

Table of Contents

Time-Depth Curve: 100YR-24HR	
Label	100YR-24HR
Start Time	0.000 hours
Increment	1.000 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 1.000 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.2	0.4	0.6	0.8
5.000	1.0	1.2	1.4	1.7	2.0
10.000	2.3	2.7	3.1	3.8	4.5
15.000	5.2	6.0	6.7	7.3	7.7
20.000	8.0	8.2	8.3	8.4	8.6

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	7.090 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	5.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	5.21 ft³/s

Drainage Area	
SCS CN (Composite)	87.400
Area (User Defined)	7.090 acres
Maximum Retention (Pervious)	1.4 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	4.168 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4.168 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	32.13 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	11.290 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	8.27 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	8.27 ft³/s

Drainage Area	
SCS CN (Composite)	87.000
Area (User Defined)	11.290 acres
Maximum Retention (Pervious)	1.5 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	6.591 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6.591 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	51.17 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.290 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.19 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.19 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.290 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.131 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.131 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.94 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.14 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	86.600
Area (User Defined)	0.190 acres
Maximum Retention (Pervious)	1.5 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	0.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.58 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	1.010 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.71 ft³/s

Drainage Area	
SCS CN (Composite)	81.100
Area (User Defined)	1.010 acres
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.530 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.530 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.63 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.590 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.43 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.43 ft³/s

Drainage Area	
SCS CN (Composite)	86.200
Area (User Defined)	0.590 acres
Maximum Retention (Pervious)	1.6 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.9 in
Runoff Volume (Pervious)	0.340 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.340 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.46 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.28 ft³/s

Drainage Area	
SCS CN (Composite)	80.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.2 in
Runoff Volume (Pervious)	0.205 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.205 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.02 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.073 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.073 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.81 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.267 hours
Total unit time, Tb	0.333 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.109 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.109 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.72 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.267 hours
Total unit time, Tb	0.333 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	72.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.32 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.222 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.222 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.55 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.267 hours
Total unit time, Tb	0.333 hours

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
732.00	0.000
733.00	1.295
734.00	2.742
735.00	4.350
736.00	6.125
737.00	8.074
737.80	9.762
738.00	10.202

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
744.00	0.000
745.00	0.590
746.00	1.344
747.00	2.272
748.00	3.382
748.60	4.137
749.00	4.680
749.50	5.401

Requested Pond Water Surface Elevations	
Minimum (Headwater)	732.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	738.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	100-Yr Orifice	Forward	TW	732.00	738.00
Rectangular Weir	Emer. Spillway/Berm Weir	Forward	TW	737.80	738.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: 100-Yr Orifice Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	732.00 ft
Orifice Diameter	6.400 in
Orifice Coefficient	0.600

Structure ID: Emer. Spillway/Berm Weir Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	737.80 ft
Weir Length	30.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	744.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	749.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	100-Yr Orifice	Forward	TW	744.00	749.50
Rectangular Weir	Emer. Spillway/Berm Weir	Forward	TW	748.60	749.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: 100-Yr Orifice Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	744.00 ft
Orifice Diameter	6.750 in
Orifice Coefficient	0.600

Structure ID: Emer. Spillway/Berm Weir Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	748.60 ft
Weir Length	30.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

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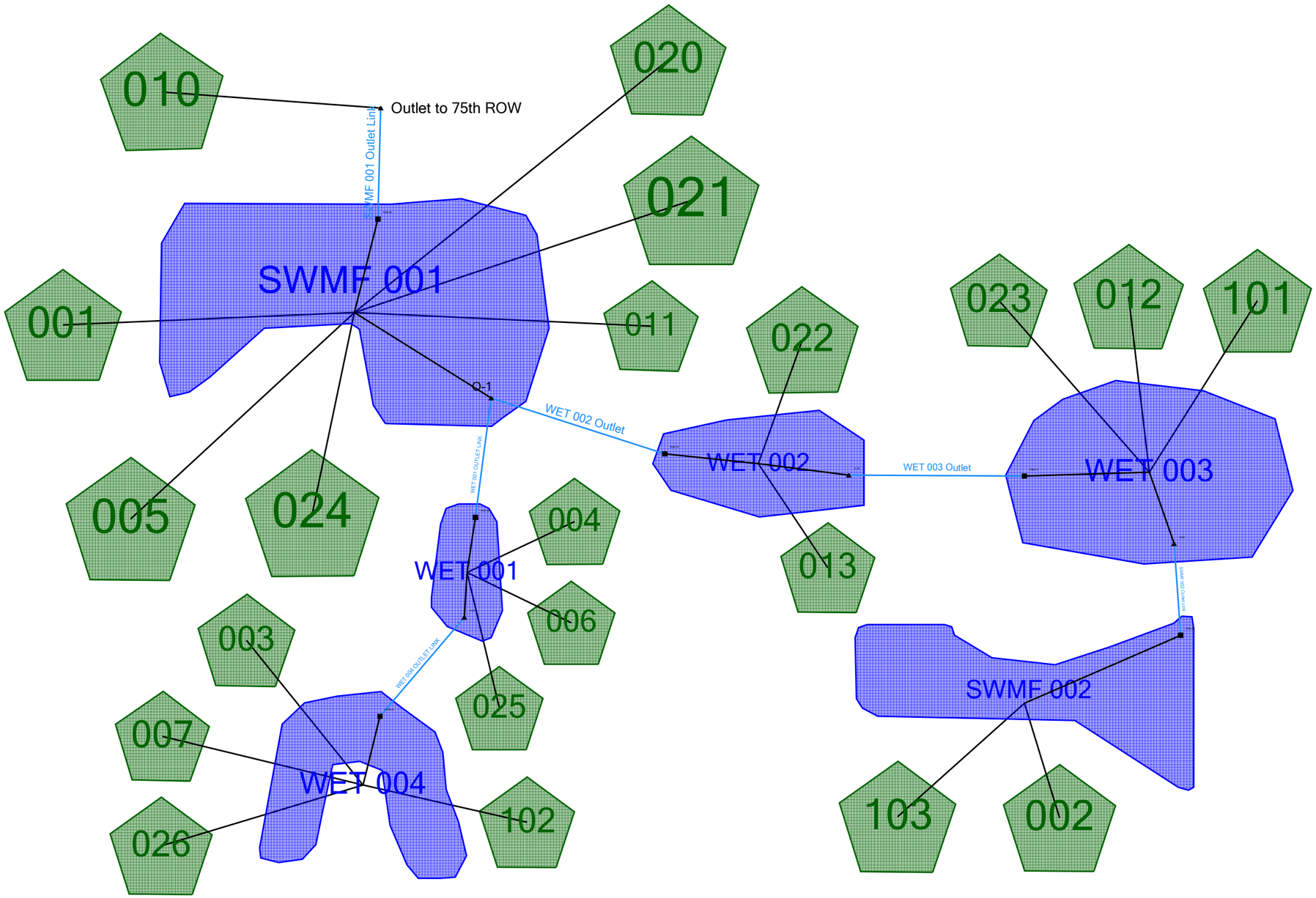
EXHIBIT 2G

“BY-PASS” PROPOSED CONDITIONS

PONDPACK MODEL & OUTPUT

Scenario: 100YR-24HR



Scenario Calculation Summary

Scenario Summary	
ID	1
Label	100YR-24HR
Notes	
Active Topology	Base Active Topology
Hydrology	Base Hydrology
Rainfall Runoff	100YR-24HR
Physical	Base Physical
Initial Condition	Base Initial Condition
Boundary Condition	Base Boundary Condition
Infiltration and Inflow	Base Infiltration and Inflow
Output	Base Output
User Data Extensions	Base User Data Extensions
PondPack Engine Calculation Options	48-240

Output Summary			
Output Increment	0.100 hours	Duration	360.000 hours

Rainfall Summary			
Return Event Tag	100	Rainfall Type	Time-Depth Curve
Total Depth	8.6 in	Storm Event	100YR-24HR

ICPM Output Summary			
Target Convergence	0.00 ft³/s	ICPM Time Step	0.100 hours
Maximum Iterations	35		

Executive Summary (Nodes)

Label	Scenario	Return Event (years)	Truncation	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
001	100YR-24HR	100	None	4.168	16.000	5.21	(N/A)	(N/A)
002	100YR-24HR	100	None	6.591	16.000	8.27	(N/A)	(N/A)
003	100YR-24HR	100	None	0.131	16.000	0.19	(N/A)	(N/A)
004	100YR-24HR	100	None	0.110	16.000	0.14	(N/A)	(N/A)
005	100YR-24HR	100	None	0.530	16.000	0.71	(N/A)	(N/A)
006	100YR-24HR	100	None	0.340	16.000	0.43	(N/A)	(N/A)
007	100YR-24HR	100	None	0.205	16.000	0.28	(N/A)	(N/A)
010	100YR-24HR	100	None	0.163	16.000	0.23	(N/A)	(N/A)
011	100YR-24HR	100	None	0.072	16.000	0.10	(N/A)	(N/A)
012	100YR-24HR	100	None	0.109	16.000	0.15	(N/A)	(N/A)
013	100YR-24HR	100	None	0.222	16.000	0.32	(N/A)	(N/A)
020	100YR-24HR	100	None	0.174	16.000	0.25	(N/A)	(N/A)
021	100YR-24HR	100	None	0.235	16.000	0.35	(N/A)	(N/A)
022	100YR-24HR	100	None	1.038	16.000	1.46	(N/A)	(N/A)
023	100YR-24HR	100	None	1.250	16.000	1.55	(N/A)	(N/A)
024	100YR-24HR	100	None	0.198	16.000	0.29	(N/A)	(N/A)
025	100YR-24HR	100	None	0.395	16.000	0.56	(N/A)	(N/A)
026	100YR-24HR	100	None	2.471	16.000	3.52	(N/A)	(N/A)
101	100YR-24HR	100	None	0.066	16.000	0.09	(N/A)	(N/A)
102	100YR-24HR	100	None	3.385	16.000	4.55	(N/A)	(N/A)
103	100YR-24HR	100	None	0.750	16.000	1.02	(N/A)	(N/A)
Outlet to 75th ROW	100YR-24HR	100	None	22.561	20.000	10.48	(N/A)	(N/A)
SWMF 001 (IN)	100YR-24HR	100	None	22.398	16.000	22.45	(N/A)	(N/A)

Scenario Calculation Summary

Executive Summary (Nodes)

Label	Scenario	Return Event (years)	Truncation	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
SWMF 001 (OUT)	100YR-24HR	100	None	22.398	20.200	10.39	737.28	8.655
SWMF 002 (IN)	100YR-24HR	100	None	7.341	16.000	9.29	(N/A)	(N/A)
SWMF 002 (OUT)	100YR-24HR	100	None	7.341	20.200	2.85	748.70	4.269
WET 001 (IN)	100YR-24HR	100	None	7.037	16.000	9.58	(N/A)	(N/A)
WET 001 (OUT)	100YR-24HR	100	None	6.995	16.100	9.56	747.40	0.168
WET 002 (IN)	100YR-24HR	100	None	10.025	16.000	6.09	(N/A)	(N/A)
WET 002 (OUT)	100YR-24HR	100	None	10.025	16.200	6.03	738.69	0.498
WET 003 (IN)	100YR-24HR	100	None	8.765	17.000	4.37	(N/A)	(N/A)
WET 003 (OUT)	100YR-24HR	100	None	8.765	17.000	4.35	742.03	0.850
WET 004 (IN)	100YR-24HR	100	None	6.192	16.000	8.53	(N/A)	(N/A)
WET 004 (OUT)	100YR-24HR	100	None	6.192	16.100	8.46	748.49	0.319

Executive Summary (Links)

Label	Type	Location	Hydrograph Volume (ac-ft)	Peak Time (hours)	Peak Flow (ft^3/s)	End Point	Node Flow Direction
SWMF 001 Outlet Link	Pond Outlet	Upstream	22.398	16.000	22.45	SWMF 001	Pond Inflow
SWMF 001 Outlet Link	Pond Outlet	Outflow	22.398	20.200	10.39	SWMF 001	Pond Outflow
SWMF 001 Outlet Link	Pond Outlet	Link	22.398	20.200	10.39		
SWMF 001 Outlet Link	Pond Outlet	Downstream	22.561	20.000	10.48	Outlet to 75th ROW	
SWMF 002 Outlet Link	Pond Outlet	Upstream	7.341	16.000	9.29	SWMF 002	Pond Inflow
SWMF 002 Outlet Link	Pond Outlet	Outflow	7.341	20.200	2.85	SWMF 002	Pond Outflow
SWMF 002 Outlet Link	Pond Outlet	Link	7.341	20.200	2.85		
SWMF 002 Outlet Link	Pond Outlet	Downstream	8.765	17.000	4.37	WET 003	
WET 001 OUTLET LINK	Pond Outlet	Upstream	7.037	16.000	9.58	WET 001	Pond Inflow
WET 001 OUTLET LINK	Pond Outlet	Outflow	6.995	16.100	9.56	WET 001	Pond Outflow
WET 001 OUTLET LINK	Pond Outlet	Link	6.995	16.100	9.56		
WET 001 OUTLET LINK	Pond Outlet	Downstream	22.398	16.000	22.45	SWMF 001	
WET 002 Outlet	Pond Outlet	Upstream	10.025	16.000	6.09	WET 002	Pond Inflow
WET 002 Outlet	Pond Outlet	Outflow	10.025	16.200	6.03	WET 002	Pond Outflow
WET 002 Outlet	Pond Outlet	Link	10.025	16.200	6.03		
WET 002 Outlet	Pond Outlet	Downstream	22.398	16.000	22.45	SWMF 001	
WET 003 Outlet	Pond Outlet	Upstream	8.765	17.000	4.37	WET 003	Pond Inflow
WET 003 Outlet	Pond Outlet	Outflow	8.765	17.000	4.35	WET 003	Pond Outflow
WET 003 Outlet	Pond Outlet	Link	8.765	17.000	4.35		
WET 003 Outlet	Pond Outlet	Downstream	10.025	16.000	6.09	WET 002	

Scenario Calculation Summary

Executive Summary (Links)

Label	Type	Location	Hydrograph Volume (ac-ft)	Peak Time (hours)	Peak Flow (ft^3/s)	End Point	Node Flow Direction
WET 004 OUTLET LINK	Pond Outlet	Upstream	6.192	16.000	8.53	WET 004	Pond Inflow
WET 004 OUTLET LINK	Pond Outlet	Outflow	6.192	16.100	8.46	WET 004	Pond Outflow
WET 004 OUTLET LINK	Pond Outlet	Link	6.192	16.100	8.46		
WET 004 OUTLET LINK	Pond Outlet	Downstream	7.037	16.000	9.58	WET 001	

Messages

Message Id	67
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	295
Label	SWMF 001 Outlet
Time	(N/A)
Message	Flow direction set to reverse for one ore more structures in composite outlet structure SWMF 001 Outlet. To eliminate this warning, edit outlet data and select forward only. If reverse flow analysis is required, then the tailwater conditions must be set to interconnected pond.
Source	Warning
Message Id	-1
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	260
Label	WET 003 Outlet
Time	(N/A)
Message	A user defined rating table is being used with a non-free outfall tailwater setting. For user defined rating tables it is suggested to use only free outfall tailwater as tailwater effects are not handled.
Source	Precalculation
Message Id	39
Scenario	100YR-24HR
Element Type	Composite Outlet Structure
Element Id	312
Label	WET 004 OUTLET
Time	(N/A)
Message	Reverse flow conditions encountered for one or more headwater elevations. Calculated reverse flows may be approximate.
Source	Warning

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Time-Depth Curve: 100YR-24HR	
Label	100YR-24HR
Start Time	0.000 hours
Increment	1.000 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 1.000 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.2	0.4	0.6	0.8
5.000	1.0	1.2	1.4	1.7	2.0
10.000	2.3	2.7	3.1	3.8	4.5
15.000	5.2	6.0	6.7	7.3	7.7
20.000	8.0	8.2	8.3	8.4	8.6

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	7.090 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	5.21 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	5.21 ft³/s

Drainage Area	
SCS CN (Composite)	87.400
Area (User Defined)	7.090 acres
Maximum Retention (Pervious)	1.4 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	4.168 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4.168 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	32.13 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	11.290 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	8.27 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	8.27 ft³/s

Drainage Area	
SCS CN (Composite)	87.000
Area (User Defined)	11.290 acres
Maximum Retention (Pervious)	1.5 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	6.591 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6.591 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	51.17 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.290 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.19 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.19 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.290 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.131 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.131 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.94 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.14 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	86.600
Area (User Defined)	0.190 acres
Maximum Retention (Pervious)	1.5 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	0.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.58 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	1.010 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.71 ft³/s

Drainage Area	
SCS CN (Composite)	81.100
Area (User Defined)	1.010 acres
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	0.530 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.530 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.63 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.590 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.43 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.43 ft³/s

Drainage Area	
SCS CN (Composite)	86.200
Area (User Defined)	0.590 acres
Maximum Retention (Pervious)	1.6 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.9 in
Runoff Volume (Pervious)	0.340 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.340 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.46 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.28 ft³/s

Drainage Area	
SCS CN (Composite)	80.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.2 in
Runoff Volume (Pervious)	0.205 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.205 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.02 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.23 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.23 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.163 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.163 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.89 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.073 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.072 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.81 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.267 hours
Total unit time, Tb	0.333 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.109 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.109 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.72 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.267 hours
Total unit time, Tb	0.333 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.100 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.013 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.32 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.222 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.222 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.100 hours
Computational Time Increment	0.013 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.55 ft³/s
Unit peak time, Tp	0.067 hours
Unit receding limb, Tr	0.267 hours
Total unit time, Tb	0.333 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.200 hours
Area (User Defined)	0.420 acres

Computational Time Increment	0.027 hours
Time to Peak (Computed)	16.027 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	70.000
Area (User Defined)	0.420 acres
Maximum Retention (Pervious)	4.3 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.174 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.174 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.200 hours
Computational Time Increment	0.027 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.38 ft³/s
Unit peak time, Tp	0.133 hours
Unit receding limb, Tr	0.533 hours
Total unit time, Tb	0.667 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.570 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.35 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.35 ft³/s

Drainage Area	
SCS CN (Composite)	70.000
Area (User Defined)	0.570 acres
Maximum Retention (Pervious)	4.3 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.236 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.235 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.31 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.250 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.033 hours
Time to Peak (Computed)	16.033 hours
Flow (Peak, Computed)	1.47 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	1.46 ft³/s

Drainage Area	
SCS CN (Composite)	74.200
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	3.5 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.5 in
Runoff Volume (Pervious)	1.038 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.038 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.250 hours
Computational Time Increment	0.033 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.33 ft³/s
Unit peak time, Tp	0.167 hours
Unit receding limb, Tr	0.667 hours
Total unit time, Tb	0.833 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.200 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.027 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	1.55 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	1.55 ft³/s

Drainage Area	
SCS CN (Composite)	88.400
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	1.3 in
Maximum Retention (Pervious, 20 percent)	0.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.2 in
Runoff Volume (Pervious)	1.250 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.250 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.200 hours
Computational Time Increment	0.027 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft³/s
Unit peak time, Tp	0.133 hours
Unit receding limb, Tr	0.533 hours
Total unit time, Tb	0.667 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.480 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.29 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.29 ft³/s

Drainage Area	
SCS CN (Composite)	70.000
Area (User Defined)	0.480 acres
Maximum Retention (Pervious)	4.3 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.198 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.198 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.63 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.150 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.020 hours
Time to Peak (Computed)	16.000 hours
Flow (Peak, Computed)	0.56 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.56 ft³/s

Drainage Area	
SCS CN (Composite)	74.600
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	3.4 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.5 in
Runoff Volume (Pervious)	0.395 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.395 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.150 hours
Computational Time Increment	0.020 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.50 ft³/s
Unit peak time, Tp	0.100 hours
Unit receding limb, Tr	0.400 hours
Total unit time, Tb	0.500 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	5.600 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	16.040 hours
Flow (Peak, Computed)	3.52 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	3.52 ft³/s

Drainage Area	
SCS CN (Composite)	72.800
Area (User Defined)	5.600 acres
Maximum Retention (Pervious)	3.7 in
Maximum Retention (Pervious, 20 percent)	0.7 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.3 in
Runoff Volume (Pervious)	2.471 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.471 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.15 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.800 hours
Total unit time, Tb	1.000 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.110 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.015 hours
Time to Peak (Computed)	16.001 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	79.500
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	2.6 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.1 in
Runoff Volume (Pervious)	0.066 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.066 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.110 hours
Computational Time Increment	0.015 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.34 ft³/s
Unit peak time, Tp	0.073 hours
Unit receding limb, Tr	0.293 hours
Total unit time, Tb	0.367 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.170 hours
Area (User Defined)	6.580 acres

Computational Time Increment	0.023 hours
Time to Peak (Computed)	16.003 hours
Flow (Peak, Computed)	4.55 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	4.55 ft³/s

Drainage Area	
SCS CN (Composite)	80.100
Area (User Defined)	6.580 acres
Maximum Retention (Pervious)	2.5 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.2 in
Runoff Volume (Pervious)	3.385 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3.385 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.170 hours
Computational Time Increment	0.023 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.86 ft³/s
Unit peak time, Tp	0.113 hours
Unit receding limb, Tr	0.453 hours
Total unit time, Tb	0.567 hours

Storm Event	100YR-24HR
Return Event	100 years
Duration	360.000 hours
Depth	8.6 in
Time of Concentration (Composite)	0.170 hours
Area (User Defined)	1.490 acres

Computational Time Increment	0.023 hours
Time to Peak (Computed)	16.003 hours
Flow (Peak, Computed)	1.02 ft³/s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	16.000 hours
Flow (Peak Interpolated Output)	1.02 ft³/s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	1.490 acres
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.750 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.750 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.170 hours
Computational Time Increment	0.023 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.93 ft³/s
Unit peak time, Tp	0.113 hours
Unit receding limb, Tr	0.453 hours
Total unit time, Tb	0.567 hours

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
732.00	0.000
733.00	1.295
734.00	2.742
735.00	4.350
736.00	6.125
737.00	8.074
737.80	9.762
738.00	10.202

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
744.00	0.000
745.00	0.590
746.00	1.344
747.00	2.272
748.00	3.382
748.60	4.137
749.00	4.680
749.50	5.401

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
747.00	0.000
748.00	0.420
749.00	2.014

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
737.00	0.000
738.00	0.192
739.00	0.635
740.00	1.365

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
741.20	0.000
742.00	0.821
743.00	1.918

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ac-ft)
748.20	0.000
749.00	0.895

Requested Pond Water Surface Elevations	
Minimum (Headwater)	732.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	738.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 1	Forward	TW	732.00	738.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: Orifice - 1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	732.00 ft
Orifice Diameter	13.5 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	744.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	749.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 1	Forward	TW	744.01	749.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: Orifice - 1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	743.50 ft
Orifice Diameter	7.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	747.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	749.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	User Defined Rating Table - 1	Forward	TW	0.00	749.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: User Defined Rating Table - 1
Structure Type: User Defined Table

Elevation (ft)	Flow (ft³/s)
747.00	0.00
747.10	0.00
747.20	1.22
747.30	4.32
747.40	9.48
747.50	16.96
747.60	27.03
747.70	39.98
747.80	56.04
747.90	75.49
748.00	98.55
748.10	125.47
748.20	156.48
748.30	191.78
748.40	231.62
748.50	276.19
748.60	325.70
748.70	380.36
748.80	440.36
748.90	505.91
749.00	577.20

Structure ID: TW
Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	737.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	740.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	User Defined Rating Table - 1	Forward	TW	0.00	740.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: User Defined Rating Table - 1
Structure Type: User Defined Table

Elevation (ft)	Flow (ft³/s)
737.00	0.00
737.10	0.00
737.20	0.00
737.30	0.00
737.40	0.00
737.50	0.00
737.60	0.00
737.70	0.00
737.80	0.00
737.90	0.00
738.00	0.00
738.10	0.00
738.20	0.23
738.30	0.79
738.40	1.64
738.50	2.82
738.60	4.34
738.70	6.22
738.80	8.50
738.90	11.20
739.00	14.34
739.10	17.95
739.20	22.05
739.30	26.66
739.40	31.81
739.50	37.51
739.60	43.80
739.70	50.69
739.80	58.20
739.90	66.36
740.00	75.18

Structure ID: TW
Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

Requested Pond Water Surface Elevations	
Minimum (Headwater)	741.20 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	743.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	User Defined Rating Table - 1	Forward + Reverse	TW	0.00	743.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: User Defined Rating Table - 1
Structure Type: User Defined Table

Elevation (ft)	Flow (ft^3/s)
741.20	0.00
741.30	0.00
741.40	0.00
741.50	0.00
741.60	0.00
741.70	0.00
741.80	0.00
741.90	0.00
742.00	0.00
742.10	16.56
742.20	53.21
742.30	105.96
742.40	173.48
742.50	255.17
742.60	350.74
742.70	460.10
742.80	583.26
742.90	720.31
743.00	871.40

Requested Pond Water Surface Elevations	
Minimum (Headwater)	748.20 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	749.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	Weir - 1	Forward + Reverse	TW	748.20	749.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

Structure ID: Weir - 1
Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	749.00
100.00	748.20
143.00	749.00

Lowest Elevation	748.20 ft
Weir Coefficient	3.00 (ft^0.5)/s

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TAB 4

WETLAND SUBMITTAL

TAB 4A

INDIRECT IMPACT ANALYSIS SUMMARY

PREPARED BY: CEMCON, Ltd.

Job No.: 402.181
By: JMH
Date: 21-Nov-25
Rev: 12-Mar-26 CMZ

Wetland 001		1/2YR-24HR	1YR-24HR	2YR-24HR
EXISTING WETLAND	Elevation (FT)	747.18	747.21	747.23
	Drawn Down Time (HR)	9.80	10.70	11.50
PROPOSED WETLAND	Elevation (FT)	747.20	747.22	747.24
	Drawn Down Time (HR)	10.90	10.40	11.90

Wetland 001		25YR-24HR	100YR-24HR
EXISTING WETLAND	INUNDATION (HR)	30.5	30.7
PROPOSED WETLAND	INUNDATION (HR)	30.3	30.5

PREPARED BY: CEMCON, Ltd.

Job No.: 402.181
By: JMH
Date: 21-Nov-25
Rev: 12-Mar-26 CMZ

Wetland 002		**1/2YR-24HR**	**1YR-24HR**	**2YR-24HR**
EXISTING WETLAND	Elevation (FT)	738.32	738.39	738.45
	Drawn Down Time (HR)	13.30	14.30	14.70
PROPOSED WETLAND	Elevation (FT)	738.39	738.43	738.47
	Drawn Down Time (HR)	16.50	19.00	22.20

Wetland 002		25YR-24HR	100YR-24HR
EXISTING WETLAND	INUNDATION (HR)	33.0	33.2
PROPOSED WETLAND	INUNDATION (HR)	51.7	59.2

PREPARED BY: CEMCON, Ltd.

Job No.: 402.181
By: JMH
Date: 21-Nov-25
Rev: 12-Mar-26 CMZ

Wetland 003		**1/2YR-24HR**	**1YR-24HR**	**2YR-24HR**
EXISTING WETLAND	Elevation (FT)	742.00	742.01	742.01
	Drawn Down Time (HR)	7.80	7.90	7.90
PROPOSED WETLAND	Elevation (FT)	742.01	742.01	742.01
	Drawn Down Time (HR)	5.70	5.90	5.90

Wetland 003		25YR-24HR	100YR-24HR
EXISTING WETLAND	INUNDATION (HR)	21.5	24.1
PROPOSED WETLAND	INUNDATION (HR)	40.8	48.3

PREPARED BY: CEMCON, Ltd.

Job No.: 402.181
By: JMH
Date: 21-Nov-25
Rev: 12-Mar-26 CMZ

Wetland 004		1/2YR-24HR	1YR-24HR	2YR-24HR
EXISTING WETLAND	Elevation (FT)	748.31	748.33	748.35
	Drawn Down Time (HR)	10.60	12.30	12.70
PROPOSED WETLAND	Elevation (FT)	748.32	748.34	748.36
	Drawn Down Time (HR)	10.50	13.10	13.50

Wetland 004		25YR-24HR	100YR-24HR
EXISTING WETLAND	INUNDATION (HR)	31.6	31.8
PROPOSED WETLAND	INUNDATION (HR)	31.5	31.6

TAB 4B

WETLAND DELINEATION REPORT BY V3 COMPANIES OF ILLINOIS, LTD.

WETLAND & WATERS DELINEATION REPORT

PROJECT SITE:

75th Street Parcel

Unincorporated DuPage County, Illinois

PREPARED FOR:

Pulte Home Corporation
1900 E. Golf Road
Schaumburg, Illinois 60173

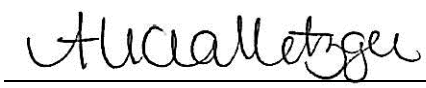
PREPARED BY:

V3 Companies
7325 Janes Avenue
Woodridge, Illinois 60517
630.724.9200

August 21, 2025

We hereby certify that this Wetland & Waters Delineation Report has been prepared by V3 Companies for use by Pulte Home Corporation, their affiliates, lenders, and assignees.

Project Staff:



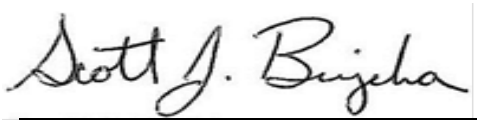
Alicia Metzger, CPSC, PWS
Soil Scientist

Daniel Jablonski
Wetland Scientist

Caden LaFond
Wetland Scientist

Erin McKenna
Wetland Scientist

Approved by:



Scott J. Brejcha, PWS
Wetland Consulting Group Leader
Natural Resources Group

Thomas E. Slowinski, PWS
Technical Director, Wetlands and Ecology
Natural Resources Group

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APPENDICES

FIGURES

EXECUTIVE SUMMARY

The approximately 32.30-acre project area was investigated by V3 Companies (V3) on June 20, and June 26, 2025 to determine the presence, extent, and quality of any wetlands or Waters under U.S. Army Corps of Engineers (USACE) and/or DuPage County jurisdiction.

Delineation Summary

Two (2) wetlands (Areas 1 and 2) and two (2) Waters of DuPage (Areas 3 and 4) were delineated within the project area, as described below. One (1) off-site wetland (Area 5) was identified within 100 feet of the project area, per the DuPage County 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 (1.11 acres) is a critical emergent wetland located in the southwest portion of the project area that continues off-site to the south. Area 1 flows north towards Area 3 and is not adjacent to a Waters of the U.S.
- Area 2 (0.41 acres) is a critical emergent wetland located in the northeast portion of the project area at the east end of Area 4, a Waters of DuPage.
- Area 3 (0.08 acres) is located in the north-central portion of the project area and consists of an ephemeral Waters of DuPage that connects to a culvert at 75th Street.
- Area 4 (0.04 acres) is located in the north-central portion of the project area and consists of an ephemeral Waters of DuPage that connects Area 2 and Area 3.

The delineated boundaries for Areas 1, 2, 3, 4, and 5 were field verified by Ms. Jenna Fahey and Mr. Luke Engel of DuPage County Stormwater on July 11, 2025 (**Appendix VI**).

In V3's professional opinion, Areas 1, 2, and 5 are wetlands subject to DuPage County jurisdiction, and Areas 3 and 4 are Waters of DuPage subject to DuPage County jurisdiction. It is also V3's professional opinion that Areas 3 and 4 are ephemeral (i.e., are not relatively permanent, standing or continuously flowing bodies of water) and are not under USACE jurisdiction, and that Areas 1, 2 and 5 do not qualify as adjacent wetlands under USACE jurisdiction. A No Permit Required (NPR) Determination, including an Approved Jurisdictional Determination (AJD) submittal to the USACE is recommended 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**	USACE Jurisdiction	Buffer Required
1	1.11	0.01	3.02	21.77	Critical	No	100'
2	0.41	0.00	2.94	20.13	Critical	No	100'
3	0.08	<0.01	N/A	N/A	Waters	No	15'
4	0.04	0.00	N/A	N/A	Waters	No	15'
5	0.00	~1.09	N/A	N/A	Regulatory	No	50'
Total	**1.56**	**~1.11**					

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

** **Regulatory** = Non-HQAR Isolated Wetland (NMC ≤ 3.5 and FQI ≤ 20, DuPage County jurisdiction); **Critical** = High Quality Isolated Wetland (NMC ≥ 3.5 or FQI ≥ 20, DuPage County jurisdiction)

Table 2. Data Point Summary Table

Area	Data Point	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Wetland/ Waters
1	X01	Y	Y	Y	Y
	X02	Y	Y	Y	Y
2	X04	Y	Y	Y	Y
3	X14	N	Y	Y	Y
4	X15	N	Y	Y	Y
Upland	X03	N	N	N	N
	X05	N	Y	N	N
	X06	N	Y	N	N
	X07	N	Y	N	N
	X08	N	N	N	N
	X09	N	N	N	N
	X10	N	N	N	N
	X11	N	Y	N	N
	X12	N	Y	N	N
	X13	N	N	N	N

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;
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 of minimal environmental impact. On January 13, 2021, the USACE reissued and modified 12 previous NWPs, issued 4 new NWPs, and reissued general conditions and definitions. These 16 NWPs went into effect on March 15, 2021. On December 27, 2021, the USACE reissued or issued 41 NWPs which went into effect on February 25, 2022. The 57 NWPs in effect will all expire on March 14, 2026. Wetland impacts greater than 0.5 acre may require authorization under an Individual Permit (IP), which requires greater scrutiny of the proposed project by the USACE and other concerned government agencies and includes a public notice comment period available to the general public.

Pursuant to the September 2022 *DuPage County Countywide Stormwater and Flood Plain Ordinance* (Ordinance), any development that affects a special management area (i.e., floodplain, wetland, wetland buffer, or waterway buffer) requires a Stormwater Management Permit. Wetland delineations for review under the Ordinance are made following the methods given in the 1987 *Corps of Engineers Wetlands Delineation Manual*. Wetland delineations conducted in DuPage County do not rely on federal jurisdiction, so both adjacent and isolated wetlands are regulated. Field verification of wetland delineations is

conducted by the DuPage County, or by village staff in full waiver communities.

All delineated wetlands are to be classified as critical or regulatory wetlands according to the criteria defined in Section 15-85 of the Ordinance. If any one of the criteria is satisfied, that wetland is considered Critical and mitigation for impacts will be required at a ratio of 3:1. If none of the criteria is satisfied, that wetland is considered Regulatory and mitigation will be required at a ratio of 1.5:1. The DuPage County Wetland Assessment is provided in Appendix V.

INTRODUCTION AND BACKGROUND

The approximately 32.30-acre project area was investigated by V3 Companies (V3) on June 20 and 26, 2025 to determine the presence, extent, and quality of any wetlands or Waters under U.S. Army Corps of Engineers (USACE) and/or DuPage County jurisdiction. Any 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 areas investigated. The delineated boundaries for Areas 1, 2, 3, 4, and 5 were field verified by Ms. Jenna Fahey and Mr. Luke Engel of DuPage County Stormwater on July 11, 2025 (Appendix VI).

The project area is located north of 79th Street, south of 75th street, east of Yackley Avenue, and west of Gladstone Drive in Unincorporated DuPage County, Illinois (Section 27, T38N, R10E; 41.7475°N, – 88.0865°W; Romeoville quadrangle, Figure 1).

Two palustrine, forested, broad-leaved deciduous, seasonally flooded (PFO1C) wetlands are mapped in the project area on the National Wetlands Inventory (NWI) Map (Figure 2).

Two regulatory wetlands are identified in the project area on the DuPage County Wetlands Map (Figure 3).

The USGS Hydrologic Atlas (Figure 4) does not show the presence of any streams or creeks in the project area.

The 12-Digit Hydrologic Unit Code (HUC) Map (Figure 5) shows that the project area is in the East Branch DuPage River subwatershed (HUC 071200040804) which is located within the larger Des Plaines River (07120004) watershed.

The FEMA Flood Insurance Rate Map (FIRM) (Figure 6) does not show flood zone in the project area.

The Flood Zones of DuPage County, Illinois (2024) Map (Figure 7) does not show flood zone in the project area.

The soil series mapped in the project area on the Soil Survey of DuPage County, Illinois Map (Figure 8) are listed below.

Table 3. Soils Information

Soil Map Unit	Soil Name	Hydric?
23A	Blount silt loam	No
146A	Elliott silt loam	No
232A	Ashkum silty clay loam	Yes
530B/530C2/530D2	Ozaukee silt loam	No

The Wetland & Waters Delineation Map (Figure 9) shows the location of all data points and the locations of the identified areas as professionally surveyed by V3 Companies.

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).

As part of a delineation report, data forms and technical information are required by the U.S. Army Corps of Engineers, to document the three parameters for any area determined to be wetland. The Wetland Determination Data Forms and Ordinary High Water Mark (OHWM) Forms for the identified areas in the project area, provided in **Appendix I,** follow the methodologies outlined in both the *Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Midwest Region* and the *National Ordinary High Water Mark Field Delineation manual for Rivers and Streams: Final Version*. The vegetation data calculated on the data forms reflects the changes made to *The National Wetland Plant List* as of 2022. Representative photographs of the project area at each data point are provided in **Appendix II**. A brief description of the field methods used, and a description of the three wetland parameters are provided in **Appendix IV**.

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**.

As part of the wetland delineation assessment, Illinois Department of Natural Resources (IDNR) and US Fish and Wildlife Service (USFWS) threatened and endangered species evaluations were conducted (**Appendix V**).

The IDNR EcoCAT report shows the following protected resources may be within the vicinity of the project area:

- Black-Billed Cuckoo (*Coccyzus erythropthalamus*)
- Short-Eared Owl (*Asio flammeus*)

The IDNR confirmed that adverse effects to threatened or endangered species from the proposed project are unlikely and the EcoCAT consultation was terminated in a letter dated July 30, 2025. *However, to avoid adverse impacts to the Black-Billed Cuckoo, the IDNR recommends no brush or tree clearing between May 1st and August 15th.* A copy of the termination letter is included in **Appendix V**.

The USFWS Information for Planning and Consultation (IPaC) is a project planning tool used to streamline the USFWS environmental review process for Section 7 Consultation. An IPaC Species and Resource List generated for the project on July 25, 2025 did not identify any Critical Habitat in the project area. A list of the candidate, experimental, threatened, proposed endangered, and endangered species which may occur near the project area is summarized in **Table 4** below.

Table 4. T&E Species Information

Species Name	Status	Habitat Present In Project Area
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	Yes
Tricolored Bat (*Perimyotis subflavus)*	Proposed Endangered	Yes
Whooping Crane (*Grus americana*)	Experimental	No
Hine's Emerald Dragonfly (*Somatochlora hineana*)	Endangered	No
Monarch Butterfly (*Danaus plexippus*)	Proposed Threatened	No
Western Regal Fritillary (*Argynnis idalia occidentalis*)	Proposed Threatened	No
Eastern Prairie Fringed Orchid (*Platanthera leucophaea*)	Threatened	No
Leafy Prairie Clover (*Dalea foliosa*)	Endangered	No

The project area consists of forest and scrub-shrub vegetation with habitat to support the Northern Long-eared Bat and Tricolored Bat. Habitat for other listed species is not present.

Please note: Further consultation with the USFWS on potential effects to the Northern Long-eared Bat and Tricolored Bat will be required prior to the commencement of project activities.

RESULTS OF THE FIELD INVESTIGATION

AREAS INVESTIGATED

Area 1 – Critical Wetland

Data Points X01 & X02

Area 1 (1.11 acres) is a critical emergent wetland located in the southwest portion of the project area that continues off-site to the south. Area 1 flows north towards Area 3 and is not adjacent to a Waters of the U.S.

Summary:

- Isolated Emergent Wetland
- Jurisdiction: DuPage County
- Quality: Critical
- Vegetated Buffer Required: 100'

Vegetation:

- The dominant plant species at Data Point X01 are common buckthorn (*Rhamnus cathartica*), highbush cranberry (*Viburnum opulus*), jewelweed (*Impatiens capensis*), Virginia creeper (*Parthenocissus quinquefolia*), and poison ivy (*Toxicodendron radicans*). 80% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.
- The dominant plant species at Data Point X02 are swamp white oak (*Quercus bicolor*), shagbark hickory (*Carya ovata*), American elm (*Ulmus americana*), common buckthorn (*Rhamnus cathartica*), gray dogwood (*Cornus racemosa*), fowl manna grass (*Glyceria striata*), marsh waterpepper (*Persicaria hydropiper*), and riverbank grape (*Vitis riparia*). 87.50% 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)	**3.02**	Species Richness (all)	69
Mean C (all species)	2.28	Species Richness (native)	52
Mean C (native trees)	3.33	% Non-native	0.25
Mean C (native shrubs)	4.33	Wet Indicator (all)	-0.14
Mean C (native herbaceous)	2.89	Wet Indicator (native)	-0.27
FQAI (native species)	**21.77**	% hydrophyte (Midwest)	0.70
FQAI (all species)	18.90	% native perennial	0.67
Adjusted FQAI	26.21	% native annual	0.07
% C value 0	0.35	% annual	0.10
% C Value 1-3	0.30	% perennial	0.86
% C value 4-6	0.32		
% C value 7-10	0.03		

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(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	0	Tree	Perennial	Native
AGEALT	*Ageratina altissima*	*Eupatorium rugosum*	White Snakeroot	3	FACU	1	Forb	Perennial	Native
AGRGRY	*Agrimonia gryposepala*	*Agrimonia gryposepala*	Tall Hairy Grooveburr	2	FACU	1	Forb	Perennial	Native
ALLPET	*Alliaria petiolata*	*ALLIARIA PETIOLATA*	Garlic-Mustard	0	FAC	0	Forb	Biennial	Adventive

AMBTRI	*Ambrosia trifida*	*Ambrosia trifida*	Great Ragweed	0	FAC	0	Forb	Annual	Native
ARCMIN	*Arctium minus*	*ARCTIUM MINUS*	Lesser Burrdock	0	FACU	1	Forb	Biennial	Adventive
ARIDRA	*Arisaema dracontium*	*Arisaema dracontium*	Greendragon	6	FACW	-1	Forb	Perennial	Native
ARITRI	*Arisaema triphyllum*	*Arisaema triphyllum ssp. pusillum; Arisaema triphyllum ssp. stewardsonii*	Jack-In-The-Pulpit	5	FACW	-1	Forb	Perennial	Native
BIDFRO	*Bidens frondosa*	*Bidens frondosa*	Devil's-Pitchfork	1	FACW	-1	Forb	Annual	Native
CXBLAN	*Carex blanda*	*Carex blanda*	Eastern Woodland Sedge	1	FAC	0	Sedge	Perennial	Native
CXCRIS	*Carex cristatella*	*Carex cristatella*	Crested Sedge	4	FACW	-1	Sedge	Perennial	Native
CXGRAE	*Carex gracilescens*	*Carex gracilescens*	Slender Wood Sedge	7	UPL	2	Sedge	Perennial	Native
CXGRAN	*Carex granularis*	*Carex granularis*	Limestone-Meadow Sedge	3	FACW	-1	Sedge	Perennial	Native
CXGRIS	*Carex grisea*	*Carex grisea*	Inflated Narrow-Leaf Sedge	3	FAC	0	Sedge	Perennial	Native
CXPELL	*Carex pellita*	*Carex pellita*	Woolly Sedge	4	OBL	-2	Sedge	Perennial	Native
CXROSE	*Carex rosea*	*Carex rosea*	Rosy Sedge	5	UPL	2	Sedge	Perennial	Native
CXTRIB	*Carex tribuloides*	*Carex tribuloides*	Blunt Broom Sedge	7	OBL	-2	Sedge	Perennial	Native
CXVULP	*Carex vulpinoidea*	*Carex vulpinoidea*	Common Fox Sedge	2	FACW	-1	Sedge	Perennial	Native
CAROVT	*Carya ovata*	*Carya ovata*	Shag-Bark Hickory	5	FACU	1	Tree	Perennial	Native
CATSPE	*Catalpa speciosa*	*CATALPA SPECIOSA*	Northern Catalpa	0	FACU	1	Tree	Perennial	Adventive
CIRARV	*Cirsium arvense*	*CIRSIUM ARVENSE*	Canadian Thistle	0	FACU	1	Forb	Perennial	Adventive
COROBL	*Cornus obliqua*	*Cornus obliqua*	Pale Dogwood	5	FACW	-1	Shrub	Perennial	Native
CRACRU	*Crataegus crus-galli*	*Crataegus crus-galli; Crataegus acutifolia*	Cock-Spur Hawthorn	3	FAC	0	Tree	Perennial	Native
CRYCAN	*Cryptotaenia canadensis*	*Cryptotaenia canadensis*	Canadian Honewort	4	FAC	0	Forb	Perennial	Native
EPICOL	*Epilobium coloratum*	*Epilobium coloratum*	Purple-Leaf Willowherb	3	OBL	-2	Forb	Perennial	Native
EPIHEL	*Epipactis helleborine*	*EPIPACTIS HELLEBORINE*	Helleborine	0	FACU	1	Forb	Perennial	Adventive
ERIANN	*Erigeron annuus*	*Erigeron annuus*	Eastern Daisy Fleabane	0	FACU	1	Forb	Biennial	Native
EUPSER	*Eupatorium serotinum*	*Eupatorium serotinum*	Late-Flowering Thoroughwort	0	FAC	0	Forb	Perennial	Native
FRAPEN	*Fraxinus pennsylvanica*	*Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata*	Green Ash	4	FACW	-1	Tree	Perennial	Native
GEUCAN	*Geum canadense*	*Geum canadense*	White Avens	1	FAC	0	Forb	Perennial	Native
GLYSTR	*Glyceria striata*	*Glyceria striata var. stricta*	Fowl Manna Grass	4	OBL	-2	Grass	Perennial	Native
HACVIR	*Hackelia virginiana*	*Hackelia virginiana*	Beggar's-Lice	1	FACU	1	Forb	Perennial	Native
HIECAE	*Hieracium caespitosum*	*HIERACIUM CAESPITOSUM*	Field Hawkweed	0	UPL	2	Forb	Perennial	Adventive
IMPCAP	*Impatiens capensis*	*Impatiens capensis*	Spotted Touch-Me-Not	3	FACW	-1	Forb	Annual	Native
JUNTEN	*Juncus tenuis*	*Juncus tenuis*	Lesser Poverty Rush	0	FAC	0	Forb	Perennial	Native

LIGOBT	*Ligustrum obtusifolium*	*LIGUSTRUM OBTUSIFOLIUM*	Blunt-Leaf Privet	0	UPL	2	Shrub	Perennial	Adventive
LYCAME	*Lycopus americanus*	*Lycopus americanus*	Cut-Leaf Water-Horehound	4	OBL	-2	Forb	Perennial	Native
LYSNUM	*Lysimachia nummularia*	*LYSIMACHIA NUMMULARIA*	Creeping-Jenny	0	FACW	-1	Forb	Perennial	Adventive
LYTSAL	*Lythrum salicaria*	*LYTHRUM SALICARIA*	Purple Loosestrife	0	OBL	-2	Forb	Perennial	Adventive
MORALB	*Morus alba*	*MORUS ALBA VAR. TATARICA*	White Mulberry	0	FAC	0	Tree	Perennial	Adventive
OXASTR	*Oxalis stricta*	*Oxalis europaea*	Upright Yellow Wood-Sorrel	0	FACU	1	Forb	Perennial	Native
PACGLA	*Packera glabella*	*SENECIO GLABELLUS*	Cress-Leaf Groundsel	0	FACW	-1	Forb	Annual	Adventive
PARQUI	*Parthenocissus quinquefolia*	*Parthenocissus quinquefolia*	Virginia-Creeper	4	FACU	1	Vine	Perennial	Native
POLHYD	*Persicaria hydropiper*	*Polygonum hydropiper*	Mild Water-Pepper	2	OBL	-2	Forb	Annual	Native
PERLON	*Persicaria longiseta*	*POLYGONUM CESPITOSUM LONGISETUM*	Bristly Lady's-Thumb	0	FAC	0	Forb	Annual	Adventive
POLVIR	*Persicaria virginiana*	*Polygonum virginianum*	Jumpseed	4	FAC	0	Forb	Perennial	Native
PHAARU	*Phalaris arundinacea*	*PHALARIS ARUNDINACEA*	Reed Canary Grass	0	FACW	-1	Grass	Perennial	Adventive
PILPUM	*Pilea pumila*	*Pilea pumila*	Canadian Clearweed	2	FACW	-1	Forb	Annual	Native
POLBIF	*Polygonatum biflorum*	*Polygonatum canaliculatum*	King Solomon's-Seal	4	FACU	1	Forb	Perennial	Native
POPDEL	*Populus deltoides*	*Populus deltoides*	Eastern Cottonwood	0	FAC	0	Tree	Perennial	Native
QUEBIC	*Quercus bicolor*	*Quercus bicolor*	Swamp White Oak	5	FACW	-1	Tree	Perennial	Native
QUEPAU	*Quercus palustris*	*Quercus palustris*	Pin Oak	5	FACW	-1	Tree	Perennial	Native
QUERUB	*Quercus rubra*	*Quercus rubra*	Northern Red Oak	5	FACU	1	Tree	Perennial	Native
RHACAT	*Rhamnus cathartica*	*RHAMNUS CATHARTICA*	European Buckthorn	0	FAC	0	Shrub	Perennial	Adventive
RIBAME	*Ribes americanum*	*Ribes americanum*	Wild Black Currant	4	FACW	-1	Shrub	Perennial	Native
ROSMUL	*Rosa multiflora*	*ROSA MULTIFLORA*	Rambler Rose	0	FACU	1	Shrub	Perennial	Adventive
SAMCAN	*Sambucus nigra ssp. canadensis*	*Sambucus canadensis*	Black Elder	4	FAC	-1	Shrub	Perennial	Native
SCIATV	*Scirpus atrovirens*	*Scirpus atrovirens*	Dark-Green Bulrush	4	OBL	-2	Sedge	Perennial	Native
SMIECI	*Smilax ecirrhata*	*Smilax ecirrhata*	Upright Carrion Flower	5	UPL	2	Forb	Perennial	Native
SOLDUL	*Solanum dulcamara*	*SOLANUM DULCAMARA*	Climbing Nightshade	0	FAC	0	Vine	Perennial	Adventive
SOLALT	*Solidago altissima*	*Solidago altissima*	Tall Goldenrod	1	FACU	1	Forb	Perennial	Native
ASTSIM	*Symphyotrichum lanceolatum*	*Aster simplex*	White Panicled American-Aster	3	FAC	0	Forb	Perennial	Native
TOXRAD	*Toxicodendron radicans*	*Rhus radicans*	Eastern Poison-Ivy	2	FAC	0	Vine	Perennial	Native
TRIREC	*Trillium recurvatum*	*Trillium recurvatum*	Bloody-Butcher	5	FACU	1	Forb	Perennial	Native
ULMAME	*Ulmus americana*	*Ulmus americana*	American Elm	3	FACW	-1	Tree	Perennial	Native
URTDIO	*Urtica dioica ssp. gracilis*	*Urtica procera; Urtica gracilis*	Tall Nettle	1	FACW	-1	Forb	Perennial	Native
VIBOPU	*Viburnum opulus var. opulus*	*VIBURNUM OPULUS*	Highbush-Cranberry	0	FAC	0	Shrub	Perennial	Adventive
VIOSOR	*Viola sororia*	*Viola priceana*	Hooded Blue Violet	3	FAC	0	Forb	Perennial	Native

VITRIP	*Vitis riparia*	*Vitis riparia var. syrticola*	River-Bank Grape	1	FACW	-1	Vine	Perennial	Native

Soils:

- The soil profile at Data Point X01 consisted of 0-8 inches of black (10YR 2/1) silt loam underlain by 18 inches, to 26 inches below the surface, of very dark gray (10YR 3/1) silty clay loam with 20% yellowish brown (10YR 5/8) redoximorphic concentrations and 10% grayish brown (10YR 5/2) redoximorphic depletions. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

- The soil profile at Data Point X02 consisted of 0-15 inches of black (10YR 2/1) silt loam with 10% dark yellowish brown (10YR 5/6) redoximorphic concentrations. This profile exhibits hydric soil field indicators F6, Redox Dark Surface, and F8, Redox Depressions, and satisfies the soils criterion.

Hydrology:

- The presence of primary wetland hydrology indicator A1, Surface Water to a depth of ½ inch, satisfies the hydrology criterion at Data Point X01.

- The presence of five primary wetland hydrology indicators: A1, Surface Waters to a depth of 2 inches; B1, Water Marks; B3, Drift Deposits; B8, Sparsely Vegetated Concave Surface; and B9, Water-Stained Leaves; and two secondary wetland hydrology indicators D2, Geomorphic Position, and D5, FAC-neutral Test, satisfies the hydrology criterion at Data Point X02.

Conclusion: Data Point X01 and Data Point X02 satisfy all three criteria and therefore, Area 1 qualifies as wetland. In V3's professional opinion, Area 1 is not subject to USACE jurisdiction because it does not have a continuous surface connection to a Waters of the U.S.

Area 2 – Critical Wetland

Data Point X04

Area 2 (0.41 acres) is a critical emergent wetland located in the northeast portion of the project area at the east end of Area 4, a Waters of DuPage.

Summary:

- Isolated Emergent Wetland
- Jurisdiction: DuPage County
- Quality: Critical
- Vegetated Buffer Required: 100'

Vegetation: The dominant plant species at Data Point X04 are American elm (*Ulmus americana*), reed canary grass (*Phalaris arundinacea*), butterweed (*Packera glabella*), common nettle (*Urtica dioica*), and riverbank grape (*Vitis riparia*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 2 are provided below.

Conservatism-Based Metrics		**Additional Metrics**	
Mean C (native species)	**2.94**	Species Richness (all)	55
Mean C (all species)	2.51	Species Richness (native)	47
Mean C (native trees)	3.00	% Non-native	15%
Mean C (native shrubs)	4.33	Wet Indicator (all)	-0.33

Mean C (native herbaceous)	2.86	Wet Indicator (native)	-0.49
FQAI (native species)	**20.13**	% hydrophyte (Midwest)	69%
FQAI (all species)	18.61	% native perennial	69%
Adjusted FQAI	27.14	% native annual	13%
% C value 0	25%	% annual	16%
% C Value 1-3	42%	% perennial	78%
% C value 4-6	29%		
% C value 7-10	4%		

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(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	0	Tree	Perennial	Native
ALITRI	*Alisma triviale*	*Alisma triviale*	Northern Water-Plantain	3	OBL	-2	Forb	Perennial	Native
ALLCAN	*Allium canadense*	*Allium canadense*	Meadow Garlic	3	FACU	1	Forb	Perennial	Native
AMBART	*Ambrosia artemisiifolia*	*Ambrosia artemisiifolia elatior*	Annual Ragweed	0	FACU	1	Forb	Annual	Native
ARIDRA	*Arisaema dracontium*	*Arisaema dracontium*	Greendragon	6	FACW	-1	Forb	Perennial	Native
ASCINC	*Asclepias incarnata*	*Asclepias incarnata*	Swamp Milkweed	3	OBL	-2	Forb	Perennial	Native
BIDFRO	*Bidens frondosa*	*Bidens frondosa*	Devil's-Pitchfork	1	FACW	-1	Forb	Annual	Native
CXBLAN	*Carex blanda*	*Carex blanda*	Eastern Woodland Sedge	1	FAC	0	Sedge	Perennial	Native
CXCRIS	*Carex cristatella*	*Carex cristatella*	Crested Sedge	4	FACW	-1	Sedge	Perennial	Native
CXGRAN	*Carex granularis*	*Carex granularis*	Limestone-Meadow Sedge	3	FACW	-1	Sedge	Perennial	Native
CXGRIS	*Carex grisea*	*Carex grisea*	Inflated Narrow-Leaf Sedge	3	FAC	0	Sedge	Perennial	Native
CXMOLE	*Carex molesta*	*Carex molesta*	Troublesome Sedge	2	FAC	0	Sedge	Perennial	Native
CXPELL	*Carex pellita*	*Carex pellita*	Woolly Sedge	4	OBL	-2	Sedge	Perennial	Native
CXROSE	*Carex rosea*	*Carex rosea*	Rosy Sedge	5	UPL	2	Sedge	Perennial	Native
CXTRIB	*Carex tribuloides*	*Carex tribuloides*	Blunt Broom Sedge	7	OBL	-2	Sedge	Perennial	Native
CXVULP	*Carex vulpinoidea*	*Carex vulpinoidea*	Common Fox Sedge	2	FACW	-1	Sedge	Perennial	Native
CIRARV	*Cirsium arvense*	*CIRSIUM ARVENSE*	Canadian Thistle	0	FACU	1	Forb	Perennial	Adventive
COMCOM	*Commelina communis*	*COMMELINA COMMUNIS*	Asiatic Dayflower	0	FACU	1	Forb	Annual	Adventive
CRYCAN	*Cryptotaenia canadensis*	*Cryptotaenia canadensis*	Canadian Honewort	4	FAC	0	Forb	Perennial	Native
DAUCAR	*Daucus carota*	*DAUCUS CAROTA*	Queen Anne's Lace	0	UPL	2	Forb	Biennial	Adventive
ECHMUR	*Echinochloa muricata*	*Echinochloa muricata*	Rough Barnyard Grass	4	OBL	-2	Grass	Annual	Native

ELEPAL	*Eleocharis palustris*	*Eleocharis erythropoda; Eleocharis palustris major; Eleocharis smallii; Eleocharis xyridiformis; Eleocharis macrostachya*	Common Spike-Rush	1	OBL	-2	Sedge	Perennial	Native
ERIANN	*Erigeron annuus*	*Erigeron annuus*	Eastern Daisy Fleabane	0	FACU	1	Forb	Biennial	Native
FRAPEN	*Fraxinus pennsylvanica*	*Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata*	Green Ash	4	FACW	-1	Tree	Perennial	Native
GEUCAN	*Geum canadense*	*Geum canadense*	White Avens	1	FAC	0	Forb	Perennial	Native
GLYSTR	*Glyceria striata*	*Glyceria striata var. stricta*	Fowl Manna Grass	4	OBL	-2	Grass	Perennial	Native
IMPCAP	*Impatiens capensis*	*Impatiens capensis*	Spotted Touch-Me-Not	3	FACW	-1	Forb	Annual	Native
JUGNIG	*Juglans nigra*	*Juglans nigra*	Black Walnut	3	FACU	1	Tree	Perennial	Native
JUNDUD	*Juncus dudleyi*	*Juncus dudleyi*	Dudley's Rush	2	FACW	-1	Forb	Perennial	Native
JUNTEN	*Juncus tenuis*	*Juncus tenuis*	Lesser Poverty Rush	0	FAC	0	Forb	Perennial	Native
LONTAT	*Lonicera tatarica*	*LONICERA TATARICA*	Twinsisters	0	FACU	1	Shrub	Perennial	Adventive
OXASTR	*Oxalis stricta*	*Oxalis europaea*	Upright Yellow Wood-Sorrel	0	FACU	1	Forb	Perennial	Native
PACGLA	*Packera glabella*	*SENECIO GLABELLUS*	Cress-Leaf Groundsel	0	FACW	-1	Forb	Annual	Adventive
PARQUI	*Parthenocissus quinquefolia*	*Parthenocissus quinquefolia*	Virginia-Creeper	4	FACU	1	Vine	Perennial	Native
PERHYR	*Persicaria hydropiper*	*Polygonum hydropiper*	Mild Water-Pepper	2	OBL	-2	Forb	Annual	Native
PERPEN	*Persicaria pensylvanica*	*Polygonum pensylvanicum*	Pinkweed	0	FACW	-1	Forb	Annual	Native
PHAARU	*Phalaris arundinacea*	*PHALARIS ARUNDINACEA*	Reed Canary Grass	0	FACW	-1	Grass	Perennial	Adventive
PILPUM	*Pilea pumila*	*Pilea pumila*	Canadian Clearweed	2	FACW	-1	Forb	Annual	Native
POLBIF	*Polygonatum biflorum*	*Polygonatum canaliculatum*	King Solomon's-Seal	4	FACU	1	Forb	Perennial	Native
QUEBIC	*Quercus bicolor*	*Quercus bicolor*	Swamp White Oak	5	FACW	-1	Tree	Perennial	Native
RIBAME	*Ribes americanum*	*Ribes americanum*	Wild Black Currant	4	FACW	-1	Shrub	Perennial	Native
ROSMUL	*Rosa multiflora*	*ROSA MULTIFLORA*	Rambler Rose	0	FACU	1	Shrub	Perennial	Adventive
ROSSET	*Rosa setigera*	*Rosa setigera var. tomentosa*	Climbing Rose	5	FACU	1	Shrub	Perennial	Native
SAMCAN	*Sambucus nigra ssp. canadensis*	*Sambucus canadensis*	Black Elder	4	FAC	-1	Shrub	Perennial	Native
SANCAA	*Sanicula canadensis*	*Sanicula canadensis*	Canadian Black-Snakeroot	5	FACU	1	Forb	Biennial	Native
SOLCAR	*Solanum carolinense*	*SOLANUM CAROLINENSE*	Carolina Horse-Nettle	0	FACU	1	Forb	Perennial	Adventive
SOLALT	*Solidago altissima*	*Solidago altissima*	Tall Goldenrod	1	FACU	1	Forb	Perennial	Native
SPAAME	*Sparganium americanum*	*Sparganium americanum*	American Burr-Reed	10	OBL	-2	Forb	Perennial	Native
ASTSIM	*Symphyotrichum lanceolatum*	*Aster simplex*	White Panicled American-Aster	3	FAC	0	Forb	Perennial	Native

THADAS	*Thalictrum dasycarpum*	*Thalictrum dasycarpum hypoglaucum*	Purple Meadow-Rue	6	FACW	-1	Forb	Perennial	Native
TOXRAD	*Toxicodendron radicans*	*Rhus radicans*	Eastern Poison-Ivy	2	FAC	0	Vine	Perennial	Native
ULMAME	*Ulmus americana*	*Ulmus americana*	American Elm	3	FACW	-1	Tree	Perennial	Native
URTDIO	*Urtica dioica ssp. gracilis*	*Urtica procera; Urtica gracilis*	Tall Nettle	1	FACW	-1	Forb	Perennial	Native
VIOSOR	*Viola sororia*	*Viola priceana*	Hooded Blue Violet	3	FAC	0	Forb	Perennial	Native
VITRIP	*Vitis riparia*	*Vitis riparia var. syrticola*	River-Bank Grape	1	FACW	-1	Vine	Perennial	Native

Soils: The soil profile at Data Point X04 consisted of 0-6 inches of black (10YR 2/1) loamy mucky silt underlain by 6 inches, to a depth of 12 inches below the surface, of dark gray (10YR 4/1) silt loam with 10% yellowish brown (10YR 5/6) redoximorphic concentrations and 5% gray (10YR 6/1) redoximorphic depletions. This profile exhibits hydric soil field indicators F1, Loamy Mucky Mineral, and F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The presence of primary wetland hydrology indicator B7, Inundation Visible on Aerial Imagery, and two secondary wetland hydrology indicators D2, Geomorphic Position, and D5, FAC-neutral Test, satisfies the hydrology criterion at Data Point X04.

Conclusion: Data Point X04 satisfies all three criteria; therefore Area 2 qualifies as wetland. In V3's professional opinion, Area 2 is not subject to USACE jurisdiction because it does not have a continuous surface connection to a Waters of the U.S.

Area 3 – Waters of DuPage

Data Point X14

Area 3 (0.08 acres) is located in the north-central portion of the project area and consists of an ephemeral Waters of DuPage that connects to a culvert at 75th Street.

Summary:

- Waters of DuPage
- Jurisdiction: DuPage County
- Buffer Required: 15'

OHWM Indicators: The observed indicators at Data Point X14 include a break in the slope on the bank, a change in the density of vegetation and the presence of large wood. Mature trees were observed above the OHWM. The top of the bank was approximately 6 inches high. In V3's professional opinion, this area is an erosional feature that is characterized by low volume or infrequent flow, does not have a continuous surface connection to a Waters of the U.S., and qualifies as a Waters of DuPage.

Area 4 – Waters of DuPage

Data Point X15

Area 4 (0.04 acres) is located in the north-central portion of the project area and consists of an ephemeral Waters of DuPage that connects Area 2 and Area 3.

Summary:

- Waters of DuPage
- Jurisdiction: DuPage County
- Buffer Required: 15'

OHWM Indicators: The observed indicators at Data Point X15 include a break in the slope on the bank and the presence of large wood. Mature trees were observed above the OHWM. The top of the bank was approximately 6 inches high. In V3's professional opinion, this area is an erosional feature that is characterized by low volume or infrequent flow, does not have a continuous surface connection to a Waters of the U.S., and qualifies as a Waters of DuPage.

Upland

Data Points X03, X05, X06, X07, X08, X09, X10, X11, X12 and X13

This area represents all upland areas located throughout the project area.

Vegetation:

- The dominant plant species at Data Point X03 are white oak (*Quercus alba*), American elm (*Ulmus americana*), Tatarian honeysuckle (*Lonicera tatartica*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 25% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X05 are Tatarian honeysuckle (*Lonicera tatartica*), American elm (*Ulmus americana*), creeping thistle (*Cirsium arvense*), Devil's beggarticks (*Bidens frondosa*), cinnamon willow herb (*Epilobium coloratum*), and tall goldenrod (*Solidago altissima*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X06 are red oak (*Quercus rubra*), shagbark hickory (*Carya ovata*), American elm (*Ulmus americana*), Tatarian honeysuckle (*Lonicera tatarica*), path rush (*Juncus tenuis*), tall goldenrod (*Solidago altissima*), poison oak (*Toxicodendron pubescens*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 33.33% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X07 are swamp white oak (*Quercus bicolor*), red oak (*Quercus rubra*), common buckthorn (*Rhamnus cathartica*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X08 are swamp white oak (*Quercus bicolor*), common buckthorn (*Rhamnus cathartica*), Tatarian honeysuckle (*Lonicera tatartica*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

- The dominant plant species at Data Point X09 are swamp white oak (*Quercus bicolor*), common buckthorn (*Rhamnus cathartica*), Tatarian honeysuckle (*Lonicera tatartica*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X10 are red oak (*Quercus rubra*), swamp white oak (*Quercus bicolor*), Tatarian honeysuckle (*Lonicera tatarica*), common buckthorn (*Rhamnus cathartica*), green ash (*Fraxnius pennsylvanica*), poison ivy (*Toxicodendron radicans*), and multiflora rose (*Rosa multiflora*). Only 44.44% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X11 are shagbark hickory (*Carya ovata*), black walnut (*Juglans nigra*), pin oak (*Quercus palustris*), white snakeroot (*Ageratina altissima*), white avens (*Geum canadense*), American black currant (*Ribes americanum*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 42.86% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X12 are American elm (*Ulmus americana*), Tatarian honeysuckle (*Lonicera tatarica*), common buckthorn (*Rhamnus cathartica*), tall goldenrod (*Solidago altissima*), path rush (*Juncus tenuis*), and Virginia creeper (*Parthenocissus quinquefolia*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.
- The dominant plant species at Data Point X13 are common pear (*Pyrus calleryana*), and tall goldenrod (*Solidago altissima*). None of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

Soils:

- The soil profile at Data Point X03 consisted of 0-4 inches of very dark grayish brown (10YR 3/2) silt loam underlain by 2 inches, to 6 inches below the surface, of brown (10YR 4/3) silt loam. Below that, from 6 to 9 inches below the surface the soil profile was brown (10YR 5/4) silt loam. Hydric soil indicators were not observed, so the soils criterion is not satisfied.
- The soil profile at Data Point X05 consisted of 0-6 inches of very dark gray (10YR 3/1) silt loam with 20% dark yellowish brown (10YR 3/6) redoximorphic concentrations. Below that, from 6 to 16 inches below the surface, the soil profile was dark gray (10YR 4/1) silt loam with 30% dark yellowish brown (10YR 3/6) redoximorphic concentrations and 20% grayish brown (10YR 5/2) redoximorphic depletions. This profile exhibits hydric soil field indicators A11, Depleted Below Dark Surface, and F6, Redox Dark Surface, and satisfies the soils criterion.
- The soil profile at Data Point X06 consisted of 0-4 inches of very dark grayish brown (10YR 3/2) silt loam with 10% dark yellowish brown (10YR 3/6) redoximorphic concentrations underlain by 9 inches, to 13 inches below the surface, of dark grayish brown (10YR 4/2) silt loam with 25% gray (10YR 5/1) redoximorphic depletions and 15% dark yellowish brown (10YR 4/6) redoximorphic concentrations. This profile exhibits hydric soil field indicators A11, Depleted Below Dark Surface, and F6, Redox Dark Surface, and satisfies the soils criterion.
- The soil profile at Data Point X07 consisted of 0-18 inches of black (10YR 2/1) silt loam with 10% yellowish brown (10YR 5/6) redoximorphic concentrations. Below that, from 18 to 24 inches below the surface, the soil profile was dark gray (10YR 4/1) silty clay loam with 30% yellowish brown (10YR

5/6) redoximorphic concentrations and 10% grayish brown (10YR 5/2) redoximorphic depletions. This profile exhibits hydric soil field indicators A12, Thick Dark Surface, and F6, Redox Dark Surface, and satisfies the soils criterion.

- The soil profile at Data Point X08 consisted of 0-4 inches of very dark grayish brown (10YR 3/2) silt loam underlain by 8 inches, to 12 inches below the surface, of brown (10RY 4/3) silt loam. Hydric soil indicators were not observed, so the soils criterion is not satisfied.
- The soil profile at Data Point X09 consisted of 0-4 inches of very dark grayish brown (10YR 3/2) silt loam underlain by 8 inches, to 12 inches below the surface, of brown (10RY 4/3) silt loam. Hydric soil indicators were not observed, so the soils criterion is not satisfied.
- The soil profile at Data Point X10 consisted of 0-3 inches of very dark grayish brown (10YR 3/2) silt loam underlain by 7 inches, to 10 inches below the surface, of brown (10YR 5/3) silt loam. Hydric soil indicators were not observed, so the soils criterion is not satisfied.
- The soil profile at Data Point X11 consisted of 0-8 inches of very dark grayish brown (10YR 3/2) silty clay loam underlain by 6 inches, to 14 inches below the surface, of gray (10YR 5/1) silty clay loam. This profile exhibits hydric soil field indicator A11, Depleted Below Dark Surace, and satisfies the soils criterion.
- The soil profile at Data Point X12 consisted of 0-4 inches of very dark gray (10YR 3/1) silt loam underlain by 12 inches, to 16 inches below the surface, of gray (10YR 5/1) silt loam with 25% yellowish brown (10YR 5/8) redoximorphic concentrations. This profile exhibits hydric soil field indicator F3, Depleted Matrix, and satisfies the soils criterion.
- The soil profile at Data Point X13 consisted of 0-8 inches of very dark grayish brown (10YR 3/2) silt loam underlain by 6 inches, to 14 inches below the surface, of brown (10YR 4/3) silt loam. Hydric soil indicators were not observed, 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 X03.
- The presence of one secondary wetland hydrology indicator D2, Geomorphic Position, is not enough to satisfy the hydrology criterion at Data Point X05.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X06.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied 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.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X10.

- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X11.
- The presence of one secondary wetland hydrology indicator D2, Geomorphic Position, is not enough to satisfy the hydrology criterion at Data Point X12.
- Neither primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is not satisfied at Data Point X13.

Conclusion: Data Points X03, X08, X09, X10, and X13 fail to satisfy all three criteria and Data Points X05, X06, X07, X11, and X12 fail to satisfy the vegetation and hydrology criteria; therefore, these areas do 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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-20
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X01
Investigator(s): CL, AM, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Swale | Local relief (concave, convex, none): Concave
Slope (%): | Lat: 41.745916 | Long: -88.088411 | Datum: WGS84
Soil Map Unit Name: Ozaukee 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
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.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Rhamnus cathartica	50	Y	FAC
2. Viburnum opulus	30	Y	FAC
3.			
4.			
5.			
	80.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Impatiens capensis	10	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	10.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Parthenocissus quinquefolia	20	Y	FACU
2. Toxicodendron radicans	15	Y	FAC
	35.0	=Total Cover	

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	95	x 3 =	285
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	125 (A)		385.00 (B)

Prevalence Index = B/A = 3.08

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.)
Greater than 50% of the dominant species are hydrophytic, so the vegetation criterion is 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 2/1						SIL	
8-26	10YR 3/1		10YR 5/8	20			SICL	
			10YR 5/2	10			SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

This profile satisfies F6 Redox Dark Surface and satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present?	Yes ✓	No ___	Depth (inches): .5
Water Table Present?	Yes ___	No ✓	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No ✓	Depth (inches): ___

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

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

Remarks:

The presence of primary and 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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-20
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X02
Investigator(s): CL, AM, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): | Lat: 41.746916 | Long: -88.087914 | Datum: WGS84
Soil Map Unit Name: Ozaukee silt loam, 2 to 4 percent slopes | NWI classification: PFO1C
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.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus bicolor	40	Y	FACW
2. Carya ovata	20	Y	FACU
3. Ulmus americana	20	Y	FACW
4.			
5.			
	80.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Rhamnus cathartica	30	Y	FAC
2. Cornus racemosa	20	Y	FAC
3.			
4.			
5.			
	50.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Glyceria striata	35	Y	OBL
2. Persicaria hydropiper	20	Y	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	55.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Vitis riparia	10	Y	FACW
2.			
	10.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
Total Number of Dominant Species Across All Strata: 8 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 87.50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	55	x 1 =	55
FACW species	70	x 2 =	140
FAC species	50	x 3 =	150
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	195 (A)		425.00 (B)

Prevalence Index = B/A = 2.18

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.)
Greater than 50% of the dominant species are hydrophytic, so the vegetation criterion is 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	10YR 2/1		10YR 5/6	10	C	M	SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

The presence of two hydric soil indicators satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

Surface Water Present?	Yes ✓	No ___	Depth (inches): 2		
Water Table Present?	Yes ___	No ✓	Depth (inches): ___		
Saturation Present? (includes capillary fringe)	Yes ___	No ✓	Depth (inches): ___	**Wetland Hydrology Present?**	**Yes** ✓ **No** ___

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

Remarks:

The presence of primary and 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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-20
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X03
Investigator(s): CL, AM, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Crest | Local relief (concave, convex, none): Convex
Slope (%): | Lat: 41.748035 | Long: -88.087114 | Datum: WGS84
Soil Map Unit Name: Blount silt loam, Lake Michigan Lobe, 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 ✓
Hydric Soil Present?	Yes	No ✓
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus alba	50	Y	FACU
2. Ulmus americana	40	Y	FACW
3.			
4.			
5.			
	90.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Lonicera tatarica	70	Y	FACU
2. Prunus virginiana	10	N	FACU
3.			
4.			
5.			
	80.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Parthenocissus quinquefolia	20	Y	FACU
2.			
	20.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 25.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	40	x 2 =	80
FAC species	0	x 3 =	0
FACU species	150	x 4 =	600
UPL species	0	x 5 =	0
Column Totals:	190 (A)		680.00 (B)

Prevalence Index = B/A = 3.58

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: X03

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2						SIL	
4-6	10YR 4/3						SIL	
6-9	10YR 5/4						SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

Hydric soil indicators were not observed, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-20
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X04
Investigator(s): CL, AM, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Depression | Local relief (concave, convex, none): Concave
Slope (%): | Lat: 41.748354 | Long: -88.086369 | Datum: WGS84
Soil Map Unit Name: Ozaukee silt loam, 2 to 4 percent slopes | NWI classification: PFO1C
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.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Ulmus americana	50	Y	FACW
2.			
3.			
4.			
5.			
	50.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Phalaris arundinacea	50	Y	FACW
2. Packera glabella	30	Y	FACW
3. Urtica dioica	20	Y	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Vitis riparia	20	Y	FACW
2.			
	20.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	170	x 2 =	340
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	170 (A)		340.00 (B)

Prevalence Index = B/A = 2.0

Hydrophytic Vegetation Indicators:
✓ 1 - Rapid Test for Hydrophytic Vegetation
✓ 2 - Dominance Test is >50%
✓ 3 - Prevalence Index is ≤3.0[1]
4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes ✓** **No**

Remarks: (Include photo numbers here or on a separate sheet.)
All 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1						LMM	
6-12	10YR 4/1		10YR 5/6	10			SIL	
			10YR 6/1	5			SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

The presence of two hydric soil indicators satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

The presence of primary wetland hydrology indicator B7, Inundation Visible on Aerial Imagery, and two secondary wetland hydrology indicators D2, Geomorphic Position, and D5, FAC-neutral Test, 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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X05
Investigator(s): AM, DJ, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.747712 | Long: -88.084800 | Datum: WGS84
Soil Map Unit Name: Ashkum silty clay 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 the vegetation and hydrology criteria and does not qualify as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Lonicera tatarica	20	Y	FACU
2. Ulmus americana	10	Y	FACW
3. Rosa multiflora	5	N	FACU
4.			
5.			
	35.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Cirsium arvense	25	Y	FACU
2. Bidens frondosa	15	Y	FACW
3. Epilobium coloratum	15	Y	OBL
4. Solidago altissima	15	Y	FACU
5. Juncus tenuis	5	N	FAC
6. Glyceria striata	5	N	OBL
7.			
8.			
9.			
10.			
	80.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 6 (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	20	x 1 =	20
FACW species	25	x 2 =	50
FAC species	5	x 3 =	15
FACU species	65	x 4 =	260
UPL species	0	x 5 =	0
Column Totals:	115 (A)		345.00 (B)

Prevalence Index = B/A = 3.0

Hydrophytic Vegetation Indicators:
- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- ✓ 3 - Prevalence Index is ≤3.0[1]
- 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes No ✓

Remarks: (Include photo numbers here or on a separate sheet.)
Only 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/1		10YR 3/6	20	C	M	SIL	
6-16	10YR 4/1		10YR 3/6	30				
			10YR 5/2	20				

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ✓ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

The presence of two hydric soil indicators satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X06
Investigator(s): AM , DJ, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.746476 | Long: -88.084142 | Datum: WGS84
Soil Map Unit Name: Blount silt loam, Lake Michigan Lobe, 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 ✓
Hydric Soil Present?	Yes ✓	No
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus rubra	20	Y	FACU
2. Carya ovata	15	Y	FACU
3. Ulmus americana	10	Y	FACW
4.			
5.			
	45.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Lonicera tatarica	40	Y	FACU
2. Ulmus americana	15	Y	FACW
3. Viburnum opulus	5	N	FAC
4. Fraxinus pennsylvanica	5	N	FACW
5.			
	65.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Juncus tenuis	20	Y	FAC
2. Solidago altissima	20	Y	FACU
3. Toxicodendron pubescens	15	Y	FACU
4. Potentilla simplex	10	N	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	65.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Parthenocissus quinquefolia	15	Y	FACU
2.			
	15.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 9 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 33.33 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	30	x 2 =	60
FAC species	25	x 3 =	75
FACU species	135	x 4 =	540
UPL species	0	x 5 =	0
Column Totals:	190 (A)		675.00 (B)

Prevalence Index = B/A = 3.55

Hydrophytic Vegetation Indicators:
- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0[1]
- 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes No ✓

Remarks: (Include photo numbers here or on a separate sheet.)
Less than 50% of the dominant species are hydrophytic, so the vegetation criterion is not 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2		10YR 3/6	10	C	M	SIL	
4-13	10YR 4/2		10YR 5/1	25			SIL	
			10YR 4/6	15			SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ✓ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

The presence of three hydric soil indicators satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X07
Investigator(s): EM , DJ, AM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.746058 | Long: -88.083984 | Datum: WGS84
Soil Map Unit Name: Blount silt loam, Lake Michigan Lobe, 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 ✓
Hydric Soil Present?	Yes ✓	No
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus bicolor	40	Y	FACW
2. Quercus rubra	25	Y	FACU
3.			
4.			
5.			
	65.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Rhamnus cathartica	75	Y	FAC
2. Ulmus americana	15	N	FACW
3.			
4.			
5.			
	90.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Parthenocissus quinquefolia	15	Y	FACU
2.			
	15.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	55	x 2 =	110
FAC species	75	x 3 =	225
FACU species	40	x 4 =	160
UPL species	0	x 5 =	0
Column Totals:	170 (A)		495.00 (B)

Prevalence Index = B/A = 2.91

Hydrophytic Vegetation Indicators:
- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- ✓ 3 - Prevalence Index is ≤3.0[1]
- 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes No ✓

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

SOIL

Sampling Point: X07

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-18	10YR 2/1		10YR 5/6	10	C	M	SIL	
18-24	10YR 4/1		10YR 5/6	30			SICL	
			10YR 5/2	10			SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ✓ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

The presence of two hydric soil indicators satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X08
Investigator(s): AM , DJ, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Crest | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.746937 | Long: -88.087696 | Datum: WGS84
Soil Map Unit Name: Ozaukee silt loam, 2 to 4 percent slopes | NWI classification: PFO1C
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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus bicolor	25	Y	FACW
2.			
3.			
4.			
5.			
	25.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Rhamnus cathartica	70	Y	FAC
2. Lonicera tatarica	70	Y	FACU
3.			
4.			
5.			
	140.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Parthenocissus inserta	20	Y	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	20.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	70	x 3 =	210
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column Totals:	185 (A)		620.00 (B)

Prevalence Index = B/A = 3.35

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: X08

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2						SIL	
4-12	10YR 4/3						SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

Hydric soil indicators were not observed, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X09
Investigator(s): AM , DJ, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.7473 | Long: -88.0869 | Datum: WGS84
Soil Map Unit Name: Blount silt loam, Lake Michigan Lobe, 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus bicolor	25	Y	FACW
2.			
3.			
4.			
5.			
	25.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Rhamnus cathartica	70	Y	FAC
2. Lonicera tatarica	70	Y	FACU
3.			
4.			
5.			
	140.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Parthenocissus quinquefolia	20	Y	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	20.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	70	x 3 =	210
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column Totals:	185 (A)		620.00 (B)

Prevalence Index = B/A = 3.35

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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2						SIL	
4-12	10YR 4/3						SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

Hydric soil indicators were not observed, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X10
Investigator(s): AM , EM , DJ | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.7475 | Long: -88.0865 | Datum: WGS84
Soil Map Unit Name: Ozaukee 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 ✓
Hydric Soil Present?	Yes	No ✓
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus rubra	30	Y	FACU
2. Quercus bicolor	20	Y	FACW
3. Thuja occidentalis	10	N	FACW
4.			
5.			
	60.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Lonicera tatarica	35	Y	FACU
2. Rhamnus cathartica	15	Y	FAC
3. Fraxinus pennsylvanica	15	Y	FACW
4.			
5.			
	65.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Toxicodendron radicans	15	Y	FAC
2. Rosa multiflora	5	Y	FACU
3. Erigeron annuus	5	Y	FACU
4. Symphyotrichum drummondii	5	Y	
5.			
6.			
7.			
8.			
9.			
10.			
	30.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 9 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 44.44 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	45	x 2 =	90
FAC species	30	x 3 =	90
FACU species	75	x 4 =	300
UPL species	0	x 5 =	0
Column Totals:	150 (A)		480.00 (B)

Prevalence Index = B/A = 3.2

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: X10

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 3/2						SIL	
3-10	10YR 5/3						SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

Hydric soil indicators were not observed, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X11
Investigator(s): AM, DJ, EM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.748406 | Long: -88.086510 | Datum: WGS84
Soil Map Unit Name: Ozaukee 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 ✓
Hydric Soil Present?	Yes ✓	No
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Carya ovata	20	Y	FACU
2. Juglans nigra	20	Y	FACU
3. Quercus palustris	15	Y	FACW
4.			
5.			
	55.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Ageratina altissima	20	Y	FACU
2. Geum canadense	10	Y	FAC
3. Ribes americanum	10	Y	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	40.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Parthenocissus quinquefolia	45	Y	FACU
2.			
	45.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 42.86 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	10	x 3 =	30
FACU species	105	x 4 =	420
UPL species	0	x 5 =	0
Column Totals:	140 (A)		500.00 (B)

Prevalence Index = B/A = 3.57

Hydrophytic Vegetation Indicators:
- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is ≤3.0[1]
- 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? Yes No ✓

Remarks: (Include photo numbers here or on a separate sheet.)
Less than 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2						SICL	
8-14	10YR 5/1		10YR 5/8	30			SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ✓ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

This profile satisfies hydric soil indicator A11 Depleted Below Dark Surface and satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-23
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X12
Investigator(s): EM , DJ, AM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Flat | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.749043 | Long: -88.086255 | Datum: WGS84
Soil Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded | 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 ✓
Hydric Soil Present?	Yes ✓	No
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. Ulmus americana	15	Y	FACW
2.			
3.			
4.			
5.			
	15.0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Lonicera tatarica	35	Y	FACU
2. Rhamnus cathartica	10	Y	FAC
3.			
4.			
5.			
	45.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Solidago altissima	10	Y	FACU
2. Juncus tenuis	5	Y	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	15.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. Parthenocissus quinquefolia	70	Y	FACU
2.			
	70.0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	15	x 3 =	45
FACU species	115	x 4 =	460
UPL species	0	x 5 =	0
Column Totals:	145 (A)		535.00 (B)

Prevalence Index = B/A = 3.69

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: X12

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/1						SIL	
4-16	10YR 5/1		10YR 5/8	25			SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

This profile satisfies F3 Depleted Matrix and satisfies the soils criterion.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

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

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

Remarks:

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)

Project/Site: 75th St Parcel | City/County: DuPage County | Sampling Date: 2025-06-26
Applicant/Owner: Pulte Home Corporation | State: Illinois | Sampling Point: X13
Investigator(s): EM, DJ, AM | Section, Township, Range: sec 27 T038N R010E
Landform (hillside, terrace, etc.): Crest | Local relief (concave, convex, none): None
Slope (%): | Lat: 41.7477 | Long: -88.0883 | Datum: WGS84
Soil Map Unit Name: Ozaukee 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 ✓
Hydric Soil Present?	Yes	No ✓
Wetland Hydrology Present?	Yes	No ✓

Is the Sampled Area within a Wetland? 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: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15' radius)			
1. Pyrus calleryana	20	Y	FACU
2.			
3.			
4.			
5.			
	20.0	=Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. Solidago altissima	75	Y	FACU
2. Rosa multiflora	15	N	FACU
3. Dipsacus laciniatus	10	N	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100.0	=Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1.			
2.			
	0	=Total Cover	

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	110	x 4 =	440
UPL species	10	x 5 =	50
Column Totals:	120 (A)		490.00 (B)

Prevalence Index = B/A = 4.08

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.)
The dominant species are not 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 Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2						SIL	
8-14	10YR 4/3						SIL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ 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 Soils[3]:

- ___ 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.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

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

Remarks:

Hydric soil indicators were not observed, so the soils criterion is not satisfied.

HYDROLOGY

Wetland Hydrology Indicators:

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

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

Secondary Indicators (minimum of two required)

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

Field Observations:

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

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

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

Remarks:

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

U.S. Army Corps of Engineers (USACE)

RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET

The proponent agency is Headquarters USACE CECW-COR.

Form Approved -
OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0024, is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

Project ID #: X14	Site Name: 75th Street Site (#250597)	Date and Time: 06/20/2025
Location (lat/long): 41.748610, -88.087660	Investigator(s): AM, CL, EM	

Step 1 Site overview from remote and online resources.
Check boxes for online resources used to evaluate site:

- [ ] gage data
- [x] LiDAR
- [ ] geologic maps
- [ ] climatic data
- [x] satellite imagery
- [ ] land use maps
- [x] aerial photos
- [x] topographic maps
- [x] Other: NWI, Hydro Atlas

Describe land use and flow conditions from online resources.
Were there any recent extreme events (floods or drought)?
No flow, dry and full of leaves, no flow indicated throughout the area, scouring observed at OHWM

Step 2 Site conditions during field assessment. First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or human-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls, etc.

Erosional feature, no water or flow observed throughout the area, originates from wetland and flows to culvert at 75th St, captures surface water from surrounding properties to the south and flows north

Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM.
OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM.
Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.

Geomorphic indicators

- [x] **Break in slope**
  - [x] *on the bank*
  - [ ] *undercut bank*
  - [ ] *valley bottom*
  - [ ] Other: _____
- [ ] **Shelving**
  - [ ] *shelf at top of bank*
  - [ ] *natural levee*
  - [ ] *human-made berms or levees*
  - [ ] *other berms:* _____
- [ ] **Secondary channels**
- [ ] **Channel bar**
  - [ ] *shelving (berms) on bar*
  - [ ] *unvegetated*
  - [ ] *vegetation transition (go to veg. indicators)*
  - [ ] *sediment transition (go to sed. indicators)*
  - [ ] *upper limit of deposition on bar*
- [ ] **Instream bedforms and other bedload transport evidence**
  - [ ] *deposition bedload indicators (e.g., imbricated clasts, gravel sheets, etc.)*
  - [ ] *bedforms (e.g., pools, riffles, steps, etc.)*
  - [ ] *Weathered clasts or bedrock*
  - [ ] *erosional bedload indicators (e.g., obstacle marks, scour, smoothing, etc.)*

Sediment indicators

- [ ] **Soil development**
- [ ] **Changes in character of soil**
- [ ] **Mudcracks**
- [ ] **Changes in particle-sized distribution**
  - [ ] *transition from* _____ to _____
  - [ ] *upper limit of sand-sized particles*
  - [ ] *silt deposits*

Vegetation indicators (*Consider the vegetation transition looking from the middle of the channel, up the banks, and into the floodplain*)

- [ ] **Change in vegetation type from** _____ **to** _____
- [x] **Change in density of vegetation**
- [ ] **Exposed roots below intact soil layer**
- [ ] **Vegetation matted down and/or bent**
- [ ] **Other vegetation observations**

Other physical indicators

- [ ] **Sediment deposited on vegetation or structures**
- [ ] **Wracking/presence of organic litter**
- [x] **Presence of large wood**
- [ ] **Leaf litter disturbed or washed away**
- [ ] **Water staining**

Other observed indicators? Describe:

Erosional feature with scour/break in slope at high water mark, presence of larger trees outside of area, bed and bank observed appx 6 inches high

Project ID #: X14

Step 4 Was additional information used to support identification of the OHWM? ☐ Yes ☒ No

If yes, describe and attach information to data sheet:

Step 5 Is an OHWM present at this site? ☒ Yes ☐ No

Describe rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).

This area is an erosional feature with a high water mark indicated by presence of large wood outside of area, a break in the slope at the OHWM. At the time of the site visit, the area was dry and did not contain water, evidence of leaves was observed throughout, indicating flow is low and not continuous

Additional observations or notes

Attach an imagery log of the site.

Imagery log attached? ☒ Yes ☐ No If no, explain why not: _____

List photographs, or other imagery/sketches, and include descriptions in the table below.

Number photographs in the order that they are taken. Attach imagery and include annotations of features.

Imagery Number	Imagery description

U.S. Army Corps of Engineers (USACE)

RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET

The proponent agency is Headquarters USACE CECW-COR.

Form Approved -
OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0024, is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

Project ID #: X15	Site Name: 75th Street Site (#250597)	Date and Time: 06/20/2025
Location (lat/long): 41.748500, -88.087410	Investigator(s): AM, CL, EM	

Step 1 Site overview from remote and online resources.
Check boxes for online resources used to evaluate site:

- [ ] gage data
- [X] LiDAR
- [ ] geologic maps
- [ ] climatic data
- [X] satellite imagery
- [ ] land use maps
- [X] aerial photos
- [X] topographic maps
- [X] Other: NWI, Hydro Atlas

Describe land use and flow conditions from online resources.
Were there any recent extreme events (floods or drought)?
No flow, dry, trees observed throughout

Step 2 Site conditions during field assessment. First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or human-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls, etc.

Erosional feature, no water or flow observed throughout the area, connects Area 2 and Area 3

Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM.
OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM.
Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.

Geomorphic indicators

- [X] **Break in slope**
  - [X] *on the bank*
  - [ ] *undercut bank*
  - [ ] *valley bottom*
  - [ ] Other: _____
- [ ] **Shelving**
  - [ ] *shelf at top of bank*
  - [ ] *natural levee*
  - [ ] *human-made berms or levees*
  - [ ] *other berms:* _____
- [ ] **Secondary channels**
- [ ] **Channel bar**
  - [ ] *shelving (berms) on bar*
  - [ ] *unvegetated*
  - [ ] *vegetation transition (go to veg. indicators)*
  - [ ] *sediment transition (go to sed. indicators)*
  - [ ] *upper limit of deposition on bar*
- [ ] **Instream bedforms and other bedload transport evidence**
  - [ ] *deposition bedload indicators (e.g., imbricated clasts, gravel sheets, etc.)*
  - [ ] *bedforms (e.g., pools, riffles, steps, etc.)*
  - [ ] *Weathered clasts or bedrock*
  - [ ] *erosional bedload indicators (e.g., obstacle marks, scour, smoothing, etc.)*

Sediment indicators

- [ ] **Soil development**
- [ ] **Changes in character of soil**
- [ ] **Mudcracks**
- [ ] **Changes in particle-sized distribution**
  - [ ] *transition from* _____ to _____
  - [ ] *upper limit of sand-sized particles*
  - [ ] *silt deposits*

Vegetation indicators (*Consider the vegetation transition looking from the middle of the channel, up the banks, and into the floodplain*)

- [ ] **Change in vegetation type from** _____ **to** _____
- [X] **Change in density of vegetation**
- [ ] **Exposed roots below intact soil layer**
- [ ] **Vegetation matted down and/or bent**
- [ ] **Other vegetation observations**

_____

Other physical indicators

- [ ] **Sediment deposited on vegetation or structures**
- [ ] **Wracking/presence of organic litter**
- [X] **Presence of large wood**
- [ ] **Leaf litter disturbed or washed away**
- [ ] **Water staining**

Other observed indicators? Describe:

Erosional feature with scour/break in slope at top, presence of larger trees outside of area, bed and bank observed < 6 inches high

Project ID #: X15

Step 4 Was additional information used to support identification of the OHWM? ☐ Yes ☒ No

If yes, describe and attach information to data sheet:

Step 5 Is an OHWM present at this site? ☒ Yes ☐ No

Describe rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).

This area is an erosional feature with a high water mark indicated by presence of large wood outside of area, a break in the slope at the OHWM. At the time of the site visit, the area was dry and did not contain water, evidence of leaves was observed throughout, indicating flow is low and not continuous

Additional observations or notes

Attach an imagery log of the site.

Imagery log attached? ☒ Yes ☐ No If no, explain why not: _____

List photographs, or other imagery/sketches, and include descriptions in the table below.

Number photographs in the order that they are taken. Attach imagery and include annotations of features.

Imagery Number	Imagery description

APPENDIX II

REPRESENTATIVE PHOTOGRAPHS

PHOTO #1

Date: 06/20/2025

View of Area 1 at the south end facing northeast.

PHOTO #2

Date: 06/20/2025

View of Area 1 at Data Point X02 facing northwest.

PHOTO #3

Date: 06/20/2025

View of Area 1 facing west.

PHOTO #4

Date: 06/20/2025

View of Area 2 at Data Point X04 facing northeast.

PHOTO #5

Date: 06/20/2025

View of Area 2 facing north.

PHOTO #6

Date: 06/20/2025

View of Area 2 facing northeast.

PHOTO #7

Date: 06/20/2025

View of Area 3 facing south.

PHOTO #8

Date: 06/20/2025

View of Area 3 at Data Point X14 facing west.

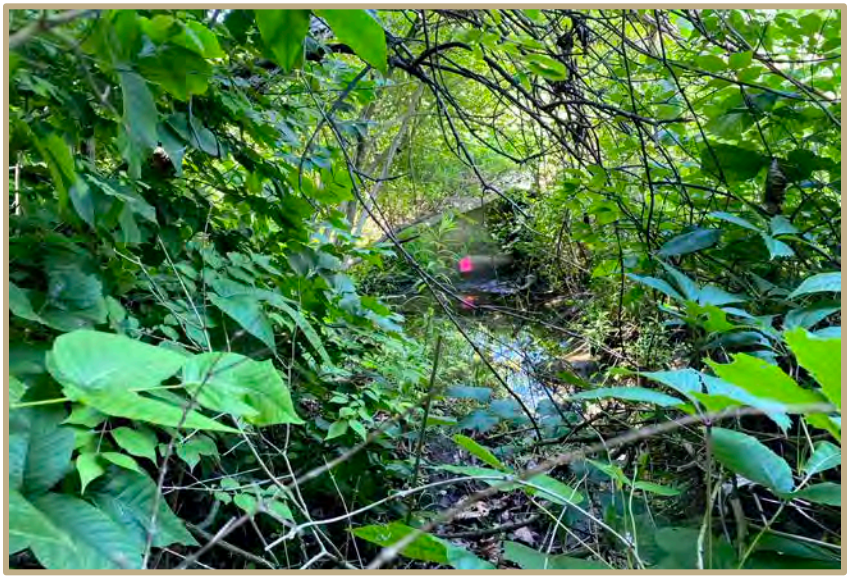

PHOTO #9

Date: 06/20/2025

View of the culvert at the north end of Area 3 under 75th Street, facing northwest.

PHOTO #10

Date: 06/20/2025

View of Area 4 at Data Point X15 facing east.

PHOTO #11

Date: 06/20/2025

View of Area 4 facing east.

PHOTO #12

Date: 06/20/2025

View of Area 4 facing west.

APPENDIX III

REGULATORY INFORMATION

REGULATORY REQUIREMENTS

U.S. Army Corps of Engineers

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 of minimal environmental impact. On January 13, 2021, the USACE reissued and modified 12 previous NWPs, issued 4 new NWPs, and reissued general conditions and definitions. These 16 NWPs went into effect on March 15, 2021. On December 27, 2021, the USACE reissued or issued 41 NWPs which went into effect on February 25, 2022. The 57 NWPs in effect will all expire on March 14, 2026. Wetland impacts greater than 0.5 acre may require authorization under an Individual Permit (IP), which requires greater scrutiny of the proposed project by the USACE and other concerned government agencies and includes a public notice comment period available to the general public.

DuPage County Requirements

Pursuant to the September 2022 *DuPage County Countywide Stormwater and Flood Plain Ordinance* (Ordinance), any development that affects a special management area (i.e., floodplain, wetland, wetland buffer, or waterway buffer) requires a Stormwater Management Permit. Wetland delineations for review under the Ordinance are made following the methods given in the 1987 *Corps of Engineers Wetlands Delineation Manual*. Wetland delineations conducted in DuPage County do not rely on federal jurisdiction, so both adjacent and isolated wetlands are regulated. Field verification of wetland delineations is conducted by the DuPage County, or by village staff in full waiver communities.

All delineated wetlands are to be classified as critical or regulatory wetlands according to the criteria defined in Section 15-85 of the Ordinance. If any one of the criteria is satisfied, that wetland is considered Critical and mitigation will be required at a ratio of 3:1. If none of the criteria is satisfied, that wetland is considered Regulatory and mitigation will be required at a ratio of 1.5:1.

Under the DuPage County Ordinance, a narrative description of measures taken to avoid and minimize wetland impacts is required for all wetlands greater than 0.10 acre in size. Development in or affecting a wetland can be initiated only after an applicant demonstrates that there are no practicable alternatives to impacting a wetland. According to Section 15-92 of the Ordinance, a vegetated buffer 50 feet wide is required around all preserved regulatory wetlands and a vegetated buffer 100 feet wide is required around all critical wetlands unless mitigation for buffer functions is provided.

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 types 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 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

FLORISTIC QUALITY ASSESSMENT

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.

HIGH QUALITY AQUATIC RESOURCES

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*, *Rynchospora*, *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://www2.illinois.gov/dnr/conservation/BiologicalStreamratings/pages/default.aspx

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).

APPENDIX V

DUPAGE COUNTY WETLAND ASSESSMENT

DUPAGE COUNTY ORDINANCE WETLAND ASSESSMENT

The information provided below addresses the additional assessment criteria for wetlands as required in DuPage County under Section 15-85.E.1-5 of the *DuPage County Countywide Stormwater and Flood Plain Ordinance*. Each criterion is addressed independently below, with the County criteria provided in *italics* and the assessment of each following in regular type.

a) *15-85.E.1 The wildlife quality value using the Modified Michigan Department of Natural Resources Method is 5.0 or higher, or alternatively, the mean rated wildlife quality (MRWQ) is determined to be 8.0 or higher, as calculated by the Ludwig wildlife habitat evaluation methodology. (If both methods are performed, the Ludwig value shall prevail as the determining value.)*

- *The Modified Michigan Department of Natural Resource Wildlife Habitat/Use Evaluation Score Sheets* were used to calculate the MRWQ on August 20, 2025. Copies of the score sheets are included.
  - Area 1 yielded a Wildlife Habitat/Use Score of 4.5 and does not qualify as critical habitat.
  - Area 2 yielded a Wildlife Habitat/Use Score of 2.5 and does not qualify as critical habitat.

b) *15-85.E.2 The plant community within the wetland is determined to have a native floristic quality index (FQI) of 20 or higher during a single season assessment or a native mean C-value (NMC) of 3.5 or higher, as calculated by the Swink and Wilhelm methodology.*

- A floristic inventory of all investigated areas was conducted on June 20, 2025. A copy of the floristic quality inventory for each area is provided in the delineation report.
  - The floristic quality data for Area 1 yielded a NMC value of 3.02 and an FQI value of 21.77, therefore Area 1 qualifies as critical wetland.
  - The floristic quality data for Area 2 yielded a NMC value of 2.94 and an FQI value of 20.13, therefore Area 2 qualifies as critical wetland.

c) *15-85.E.3 The wetland is known to be inhabited by a State listed threatened or endangered species.*

- The IDNR confirmed that adverse effects to threatened or endangered species from the proposed project are unlikely and the EcoCAT consultation was terminated in a letter dated July 30, 2025. *However, to avoid adverse impacts to the Black-Billed Cuckoo, the IDNR recommends no brush or tree clearing between May 1st and August 15th.* A copy of the letter from the IDNR is included.

d) 15-85.E.4 *An evaluation of the wetland in accordance with the current US Fish and Wildlife Service review procedures that confirms the presence or use by listed threatened or endangered species.*

- The USFWS Information for Planning and Consultation (IPaC) is a project planning tool used to streamline the USFWS environmental review process for Section 7 Consultation. An IPaC Species and Resource List generated for the project on July 25, 2025 identifies the following experimental, proposed threatened, and threatened and endangered species near the project area:

Species Name	Status	Habitat Present
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	Yes
Tricolored Bat (*Perimyotis subflavus)*	Proposed Endangered	Yes
Whooping Crane (*Grus americana*)	Experimental	No
Hine's Emerald Dragonfly (*Somatochlora hineana*)	Endangered	No
Monarch Butterfly (*Danaus plexippus*)	Proposed Threatened	No
Western Regal Fritillary (*Argynnis idalia occidentalis*)	Proposed Threatened	No
Eastern Prairie Fringed Orchid (*Platanthera leucophaea*)	Threatened	No
Leafy Prairie Clover (*Dalea foliosa*)	Endangered	No

- The project area consists of forest and scrub-shrub vegetation with habitat to support the Northern Long-eared Bat and Tricolored Bat. Habitat for other listed species is not present. *Please note: Further consultation with the USFWS on potential effects to the Northern Long-eared Bat and Tricolored Bat will be required prior to the commencement of project activities*.

e) *15-85.E.5. If the wetland is identified as a critical wetland in the County's wetland inventory, confirmation of the Critical status shall be completed through an evaluation of Sections 15-85.E.1 through 15-85.E.4. If the wetland evaluation does not confirm a critical status, the wetland shall be considered "regulatory" for purposes of the Ordinance.*

- Area 1 is not mapped as critical wetland on the DuPage County Wetland Map (Figure 3).
- Area 2 is not mapped as critical wetland on the DuPage County Wetland Map (Figure 3).

CONCLUSION

Per Section 15-85.E.2 of the Ordinance, Area 1 and Area 2 qualify as critical wetlands based on a FQI value greater than 20.

OBSERVER: AM, CL, EM, DJ

DATE: 6/20/2025

LOCATION: Area 1

WILDLIFE HABITAT/USE EVALUATION SCORE SHEET

To assess the existing and/or potential wildlife habitat use of the subject wetland, the applicant must first complete this score sheet. The attached documentation provides examples of each scoring parameter.

A separate sheet must be completed for each wetland. The wetland system as a whole must be considered. If the wetland extends off-site, aerial photographs, observations from public access areas (roads, etc.) should be considered in the evaluation sheet.

Applicants must document their basis for scoring decisions with field surveys followed by current photographs, and other appropriate information.

A. Utilization by Wildlife

Wildlife Use	Score
Significant	3.0
Evident	2.0
Low	1.0
Occasional	0.5
Non-Existent	0.0
SUB-TOTAL =	**2.0**

Observations/Notes:

B. Interspersion of Vegetative Cover

Interspersion	Score
High	3.0
Medium	2.0
Low	1.0
SUB-TOTAL =	**2.0**

Community Type	% Cover
Emergent	
Scrub Shrub	
Wet Meadow	
Forested	
Aquatic	
Other	

C. Vegetative Cover to Open Water

Cover	Score
>95% Cover	0.5
76%-95% Cover, Peripheral	1.5
76%-95% Cover, Various	2.5
26%-75% Cover, Peripheral	2.0
25%-75% Cover, Patches	3.0
5%-25% Cover, Peripheral	1.0
<5% Cover	0.5
SUB-TOTAL =	**0.5**

TOTAL SCORE (A+B+C) =	**4.5**

Total score ≥ 5.00 wetland receives CRITICAL status

Total score < 5.00 wetland receives REGULATORY status

OBSERVER: AM, CL, EM, DJ

DATE: 6/20/2025

LOCATION: Area 2

WILDLIFE HABITAT/USE EVALUATION SCORE SHEET

To assess the existing and/or potential wildlife habitat use of the subject wetland, the applicant must first complete this score sheet. The attached documentation provides examples of each scoring parameter.

A separate sheet must be completed for each wetland. The wetland system as a whole must be considered. If the wetland extends off-site, aerial photographs, observations from public access areas (roads, etc.) should be considered in the evaluation sheet.

Applicants must document their basis for scoring decisions with field surveys followed by current photographs, and other appropriate information.

A. Utilization by Wildlife

Wildlife Use	Score
Significant	3.0
Evident	2.0
Low	1.0
Occasional	0.5
Non-Existent	0.0
SUB-TOTAL =	**1.0**

Observations/Notes:

B. Interspersion of Vegetative Cover

Interspersion	Score
High	3.0
Medium	2.0
Low	1.0
SUB-TOTAL =	**1.0**

Community Type	% Cover
Emergent	
Scrub Shrub	
Wet Meadow	
Forested	
Aquatic	
Other	

C. Vegetative Cover to Open Water

Cover	Score
>95% Cover	0.5
76%-95% Cover, Peripheral	1.5
76%-95% Cover, Various	2.5
26%-75% Cover, Peripheral	2.0
25%-75% Cover, Patches	3.0
5%-25% Cover, Peripheral	1.0
<5% Cover	0.5
SUB-TOTAL =	**0.5**

TOTAL SCORE (A+B+C) =	**2.5**

Total score ≥ 5.00 wetland receives CRITICAL status

Total score < 5.00 wetland receives REGULATORY status

EcoCAT
Ecological Compliance Assessment Tool

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Applicant:	V3 Comapnies	*IDNR Project Number:*	2601353
Contact:	Caden LaFond	*Date:*	07/25/2025
Address:	7325 Janes Avenue, Woodridge IL Woodridge, IL 60517	*Alternate Number:*	250597

Project: 75th Street Parcel
Address: Northeast of Yackley Ave and 77th St, Unincorporated DuPage County

Description: Residential townhome development with associated infrastructure.

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Black-Billed Cuckoo *(Coccyzus erythropthalmus)*
Short-Eared Owl *(Asio flammeus)*

An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: DuPage

Township, Range, Section:
38N, 10E, 27

IL Department of Natural Resources Contact
Isabella Newingham
217-785-5500
Division of Ecosystems & Environment

Government Jurisdiction
IL Environmental Protection Agency
Bureau of Water Quality
1021 North Grand Avenue East
Springfield, Illinois 62794

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

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EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

Illinois Department of
Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
http://dnr.state.il.us

JB Pritzker, Governor

Natalie Phelps Finnie, Director

July 30, 2025

Caden LaFond
V3 Comapnies
7325 Janes Avenue, Woodridge IL
Woodridge, IL 60517

RE: 75th Street Parcel
Project Number(s): 2601353 [250597]
County: DuPage

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 is terminated.

However, the Department recommends no brush or tree clearing between May 1st and August 15th to avoid impacts to Black-billed Cuckoo (Coccyzus erythropthalmus).

This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Isabella Newingham

Isabella Newingham
Division of Ecosystems and Environment
217-785-5500

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chicago Ecological Service Field Office
1511 47th Ave
Moline, IL 61265-7022
Phone: (309) 757-5800

In Reply Refer To: 07/25/2025 19:41:27 UTC
Project Code: 2025-0127126
Project Name: 75th Street Parcel

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

Additionally, please note that on March 23, 2022, the Service published a proposal to reclassify the northern long-eared bat (NLEB) as endangered under the Endangered Species Act. The U.S. District Court for the District of Columbia has ordered the Service to complete a new final listing

determination for the NLEB by November 2022 (Case 1:15-cv-00477, March 1, 2021). The bat, currently listed as threatened, faces extinction due to the range-wide impacts of white-nose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across the continent. The proposed reclassification, if finalized, would remove the current 4(d) rule for the NLEB, as these rules may be applied only to threatened species. Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective (anticipated to occur by December 30, 2022). If your project may result in incidental take of NLEB after the new listing goes into effect this will first need to addressed in an updated consultation that includes an Incidental Take Statement. If your project may require re-initiation of consultation, please contact our office for additional guidance.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chicago Ecological Service Field Office
1511 47th Ave
Moline, IL 61265-7022
(309) 757-5800

PROJECT SUMMARY

Project Code: 2025-0127126
Project Name: 75th Street Parcel
Project Type: Residential Construction
Project Description: Residential townhome development with associated infrastructure.
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@41.74670985,-88.08636196341484,14z

Counties: DuPage County, Illinois

ENDANGERED SPECIES ACT SPECIES

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

BIRDS

NAME	STATUS
Whooping Crane *Grus americana* Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non-Essential

INSECTS

NAME	STATUS
Hine's Emerald Dragonfly *Somatochlora hineana* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7877	Endangered
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened
Western Regal Fritillary *Argynnis idalia occidentalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/12017	Proposed Threatened

FLOWERING PLANTS

NAME	STATUS
Eastern Prairie Fringed Orchid *Platanthera leucophaea* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/601	Threatened
Leafy Prairie-clover *Dalea foliosa* Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5498	Endangered

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: V3 Companies
Name: Caden LaFond
Address: 7325 Janes Avenue
City: Woodridge
State: IL
Zip: 60517
Email clafond@v3co.com
Phone: 6309071606

APPENDIX VI

DUPAGE COUNTY WETLAND BOUNDARY VERIFICATION

Outlook

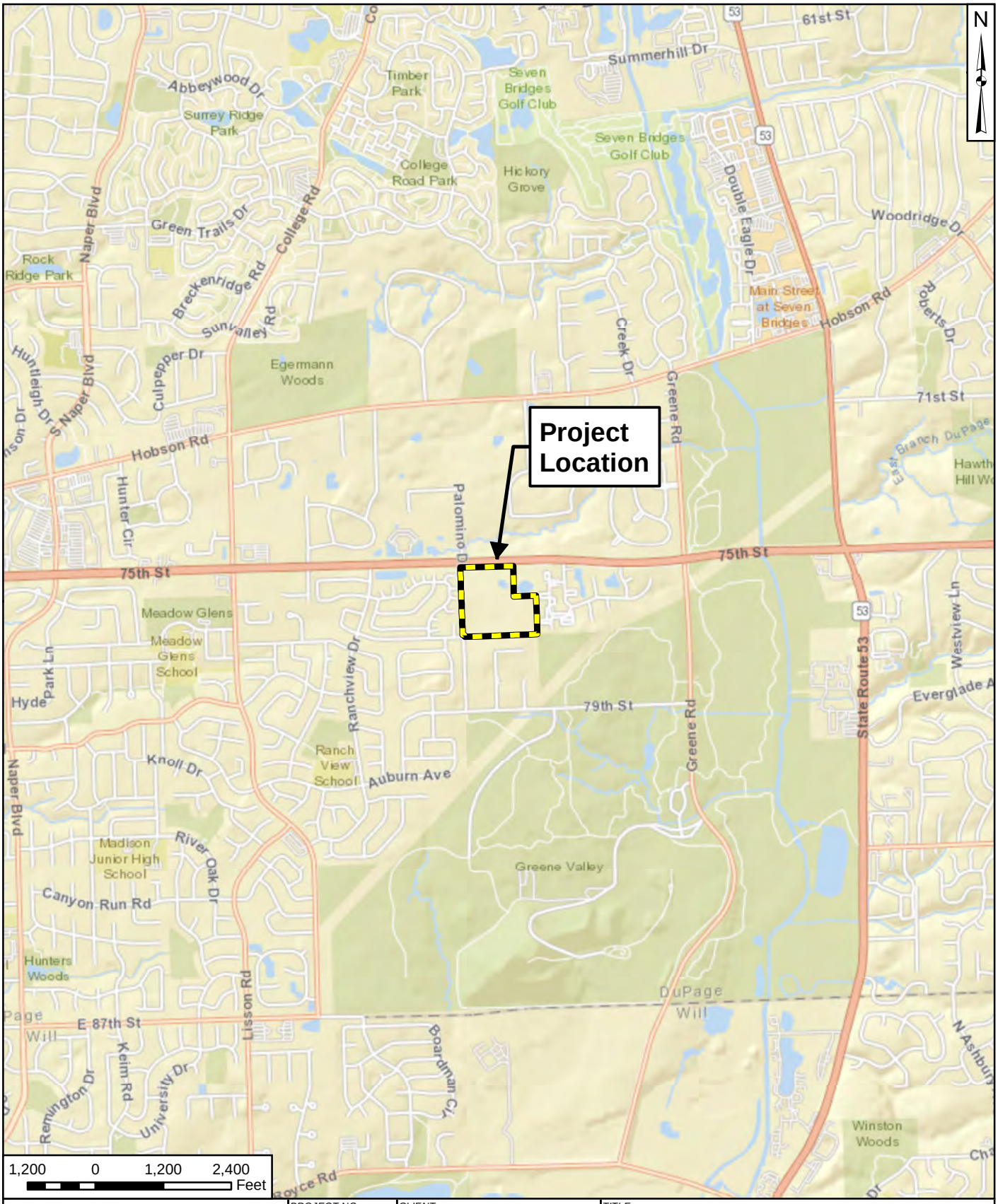
WBV2025-0079

From No Reply <noreply@dupageco.org>
Date Fri 7/11/2025 12:57 PM
To Ty Morris <ty.morris@pultegroup.com>; Caden LaFond <clafond@v3co.com>; pal@lbgalaw.com <pal@lbgalaw.com>
Cc jenna.fahey@dupagecounty.gov <jenna.fahey@dupagecounty.gov>

A wetland boundary verification WBV2025-0079 was completed and approved on 7/11/2025. The verified wetland boundaries are now valid for a two year period (DCSFPO Section 15-85.B). Please note, the wetland boundary verification does not include a complete review of the delineation report. The report will be reviewed upon submission of the stormwater permit application.

Inspector Name: Jenna Fahey

FIGURES



7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com	PROJECT NO.: 250597 CREATED BY: AMM	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **PROJECT LOCATION**
	DATE: 06/19/2025	BASE LAYER: ESRI World Street Map	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois FIGURE: 1
Visio, Vertere, Virtute... *"The Vision To Transform with Excellence"*	SCALE: See Scale Bar		

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7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

Visio, Vertere, Virtute...
"The Vision To Transform with Excellence"

PROJECT NO.: 250597	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **NATIONAL WETLANDS INVENTORY (NWI)**	
CREATED BY: AMM			
DATE: 06/16/2025	BASE LAYER: USGS Topographic Map Romeoville Quadrangle (2024)	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois	FIGURE: 2
SCALE: See Scale Bar			

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7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

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PROJECT NO.: 250597	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **DUPAGE COUNTY WETLANDS**	
CREATED BY: AMM			
DATE: 06/16/2025	BASE LAYER: USGS Topographic Map Romeoville Quadrangle (2024)	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois	FIGURE: 3
SCALE: See Scale Bar			

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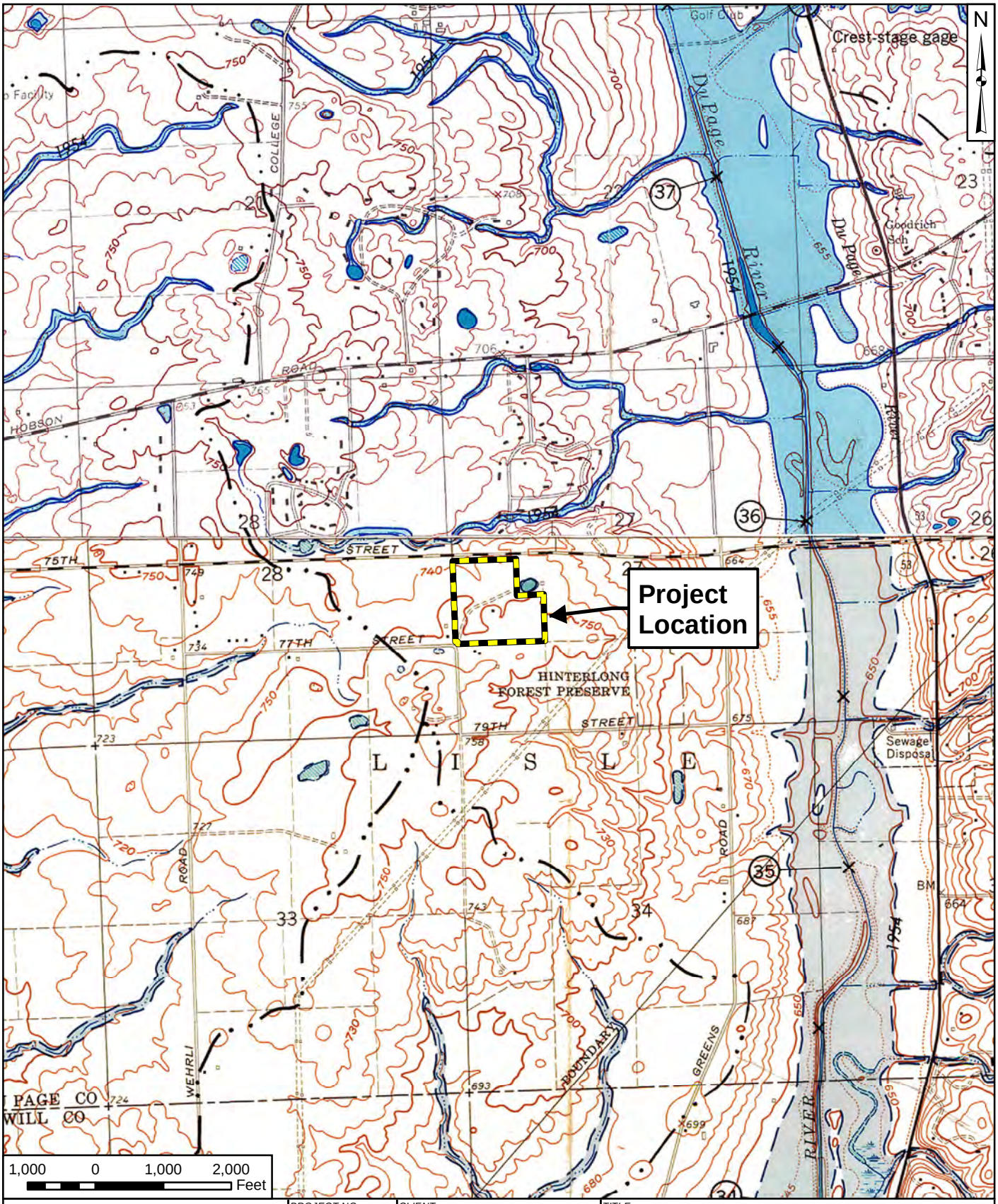

7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com	PROJECT NO.: 250597 CREATED BY: EKM	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **USGS HYDROLOGIC ATLAS**
	DATE: 06/19/2025	BASE LAYER: USGS Hydrologic Atlas Romeoville Quadrangle (1965)	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois FIGURE: 4
Visio, Vertere, Virtute... *"The Vision To Transform with Excellence"*	SCALE: See Scale Bar		

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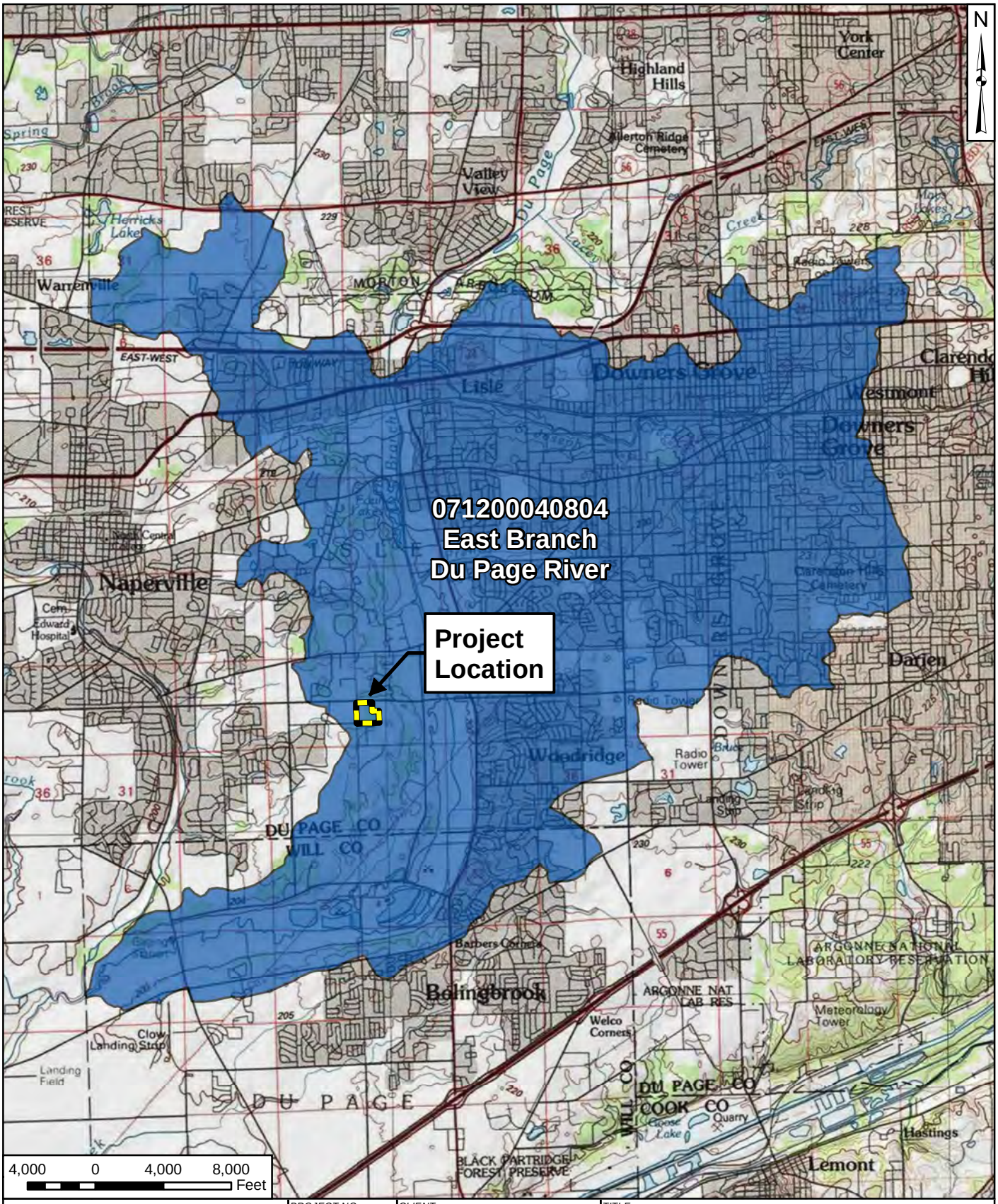

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

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PROJECT NO.: 250597	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **12-DIGIT HYDROLOGIC UNIT CODE (HUC)**	
CREATED BY: AMM			
DATE: 08/18/2025	BASE LAYER: ESRI USA Topographic Map	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois	FIGURE: 5
SCALE: See Scale Bar			

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7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com	PROJECT NO.: 250597 CREATED BY: EKM	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **FEMA FLOOD INSURANCE RATE MAP (FIRM)**
	DATE: 06/19/2025	BASE LAYER: FEMA FIRM Panel 17043C0252J Effective 08/01/2019	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois FIGURE: 6
Visio, Vertere, Virtute... *"The Vision To Transform with Excellence"*	SCALE: See Scale Bar		

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Woodridge, IL 60517
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www.v3co.com

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PROJECT NO.: 250597	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **FLOOD ZONES OF DUPAGE COUNTY, ILLINOIS (2024)**	
CREATED BY: EKM			
DATE: 08/19/2025	BASE LAYER: DuPage County Aerial Imagery (2023)	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois	FIGURE: 7
SCALE: See Scale Bar			

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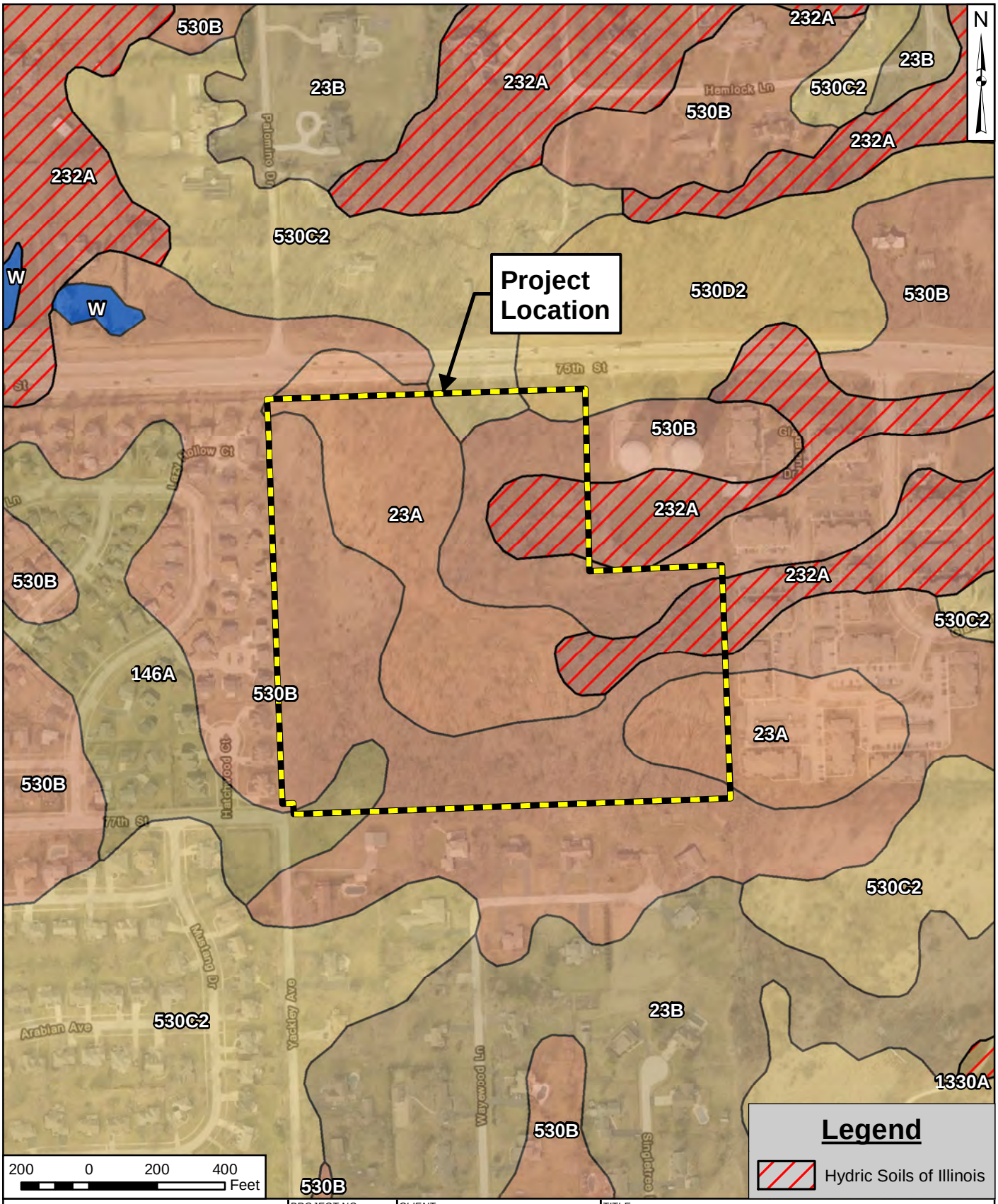

7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com	PROJECT NO.: 250597 CREATED BY: AMM	CLIENT: Pulte Home Corporation 1900 Golf Road, Suite 300 Schaumburg, IL 60173	TITLE: **SOIL SURVEY OF DUPAGE COUNTY, ILLINOIS**
	DATE: 06/19/2025	BASE LAYER: DuPage County Aerial Imagery (2023)	SITE: 75th Street Parcel Unincorporated DuPage Co, Illinois FIGURE: 8
Visio, Vertere, Virtute... *"The Vision To Transform with Excellence"*	SCALE: See Scale Bar		

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N

24W000
23W928
23W928
75th St
23W804
23W784

X12
X14
X15
X11
X04
X03
X13
X10
X09
X02
X08
X01
X05
X06
X07

AREA 4
0.04 ACRES

AREA 5
OFF-SITE

AREA 3
0.08 ACRES
ON-SITE

AREA 2
0.41 ACRES

AREA 1
1.11 ACRES
ON-SITE

7550
7684
8S605
Yackley Ave
8S620
23W800
8S605
Pond Ln

80 0 80 160 Feet

LEGEND

Delineated Features

- Wetland (On-Site; 1.52 acres)
- Wetland (Off-Site)
- Waters of DuPage (On-Site; 0.12 acres)
- Waters of DuPage (Off-Site)

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

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PROJECT NO.: 250597
CREATED BY: CJL
DATE: 08/18/2025
SCALE: See Scale Bar

CLIENT:
Pulte Home Corporation
1900 E Golf Road, Suite 300
Schaumburg, Illinois 60173

BASE LAYER:
DuPage County
Aerial Imagery
(2023)

TITLE:
WETLAND & WATERS DELINEATION

SITE:
75th Street Parcel
Unincorporated DuPage County, Illinois

FIGURE: 9

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TAB 5

BUFFER ASSESSMENT (SEE TAB 4)

TAB 7

SOIL EROSION & SEDIMENT CONTROL

(SESC) SUBMITTAL

EXHIBIT 7A

SOIL EROSION & SEDIMENTATION CONTROL CALCULATIONS

(TO BE SUBMITTED AT FINAL)

TAB 9

MAINTENANCE & MONITORING PROGRAM

(TO BE SUBMITTED AT FINAL)

TAB 10

SECURITY

EXHIBIT 10A

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

(TO BE SUBMITTED AT FINAL)

EXHIBIT 10B

RIGHT TO DRAW ON FINANCIAL SURETY

(TO BE SUBMITTED AT FINAL)

EXHIBIT 10C

INDEMNIFICATION STATEMENT

(TO BE SUBMITTED AT FINAL)

EXHIBIT 10D

AFFIDAVIT OF

UNDERSTANDING AND COMPLIANCE

(TO BE SUBMITTED AT FINAL)