# Phase 1 Stormwater Management Report 1960 West Lucent Lane Naperville, Illinois June 12, 2025

Prepared By:
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Prepared For:
Karis Critical
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Naples, FL 34102





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# **TAB 1**

PROJECT OVERVIEW



### **Stormwater Management Narrative**

### Introduction

The subject property, Lot 2 in the Nokia Campus Subdivision, is located in Naperville, DuPage County, Illinois. The subject property is bound by Lucent Lane and residential property on the west, Warrenville Road along the south, Naperville Road and Weatherbee Lane on the east, and an office/light industrial property to the north. The total site area is approximately 41-acres.

### **Existing Site Characteristics**

The existing site previously held an office building with two parking garages and a surface parking lot, with a stormwater detention pond located in the southeast corner. The office building was connected by a pedestrian bridge to the existing building to the north (2000 West Lucent Lane), currently owned by Nokia and still in operation. The subject property was subdivided from the 2000 Lucent Lane building property in 2020.

In the previous two years, the office building, parking garages, and parking lot have been demolished and the pedestrian bridge to the Nokia building disconnected. Existing building foundations, underground utilities, some pavement, and the stormwater detention pond remain on site. Existing storm sewer crossing through the site conveys stormwater runoff from the subject property, in addition to stormwater runoff from a portion of the Nokia building property. It appears none of the existing on site storm sewer has been demolished and the existing stormwater detention pond has not been impacted by demolition activities.

Pursuant to a review of the USGS 7.5-min map for the Wheaton Quadrangle, a DuPage County GIS map, and a Topographic Survey of the site pre-demolition prepared by V3 Companies in December of 2022, the existing on site pond outfalls to existing storm sewer on the eastern side of Naperville Road. The receiving water for the subject property is the Eastern Branch of the DuPage River, which is tributary to the DuPage River and ultimately, the Des Plaines River.

### **Proposed Site Characteristics**

The proposed development consists of a two story building with an associated equipment yard, car parking, drive aisles around the building, and two driveway accesses from Lucent Lane. The eastern portion of the site is proposed to be mass graded to achieve proper site drainage, stabilized, and left as pervious area. A possible future land banked parking area is also shown on the Site Improvement Plans.

Stormwater detention will be provided by the existing detention basin at the southeast corner of the site. Under proposed conditions, storm sewer will collect local runoff from buildings and pavement and outfall into the existing detention basin. The storm sewer network will be designed to convey runoff from a 100 year design storm event. In emergency overflow events, excess runoff will be conveyed overland to the existing stormwater detention basin. Storm sewer will be designed such that upstream stormwater flows from the Nokia building will be maintained.

Based on a review of historic aerials, it also appears that roadway and sidewalk improvements were made to Naperville Road in 2007. Per a review of the topographic survey dated February 3,



2025, prepared by Jacob & Hefner Associates, the top of the bank of the existing detention basin and emergency overflow weir at the southeast portion of the site were lowered by these improvements, effectively reducing the detention storage volume provided in the basin. Minor pond grading work is proposed to re-establish the original top of pond bank and emergency weir elevations and ensure the detention basin volume meets the original as built volume.

### **Stormwater Regulations**

Stormwater design will be regulated by the DuPage County Countywide Stormwater and Floodplain Ordinance. Per DuPage County, stormwater detention is required for developments with 25,000 square feet or more of net new impervious area when compared to site conditions as of February 15, 1992. The previously existing office building and parking garages were constructed post-1992, and detention was provided for the impervious area constructed at that time. Existing conditions impervious area (prior to demolition work) was measured and compared to the proposed impervious area of the development. The comparison determined that the proposed development will result in a net reduction in impervious area of 301,468 square feet, therefore additional stormwater detention will not be required. When the landbanked parking is constructed, the net reduction in impervious area is reduced to 261,717 square feet, however, additional stormwater detention is still not required.

Additionally, installation of post construction best management practices (PCBMPs) is required for developments with 2,500 square feet or more net new impervious area when compared to site conditions as of April 23, 2013. PCBMPs must provide volume and pollutant control using infiltration of 1.25 inches of rainfall for all new impervious surfaces or a native vegetated wetland bottom site runoff storage basin. The proposed development will result in a net reduction in impervious area of 343,401 square feet when compared to 2013, therefore not requiring any PCBMPs. When the landbanked parking is constructed, the net reduction in impervious area is reduced to 303,650 square feet, however, PCBMPs are still not required. Because the building tenant would like to incorporate a stormwater best management practice feature into the initial phase of the project, PCBMPs are proposed as part of Phase 1 in the form of a Rain Garden. The Rain Garden has a proposed volume of 37,300 cf that will be used to offset required PCBMP volume when it is triggered during Phase 2 of the development.



March 18, 2025

Illinois State Historic Preservation Office Illinois Department of Natural Resources One Natural Resources Way Springfield, IL 62702-1271

Re: Site Improvements at 1960 Lucent Lane City of Naperville, DuPage County, Illinois

Dear Cultural Resource Protection Review and Compliance Team,

Jacob & Hefner Associates, Inc. is currently preparing Site Improvement Plans for a proposed development at 1960 Lucent Lane in the City of Naperville in DuPage County that lies within Section 5, Township 38 North, Range 10 East. The proposed development area (site) is approximately ±40.86 acres.

The site has been previously developed and demolition of the previously existing primary structures has been completed by the previous owner. The site is outlined in the aerial and topographic maps enclosed with this document.

The project consists of mass grading and soil erosion practices for the purpose of developing office and industrial facilities with associated parking lots and infrastructure. The site is currently razed, but was previously used for office and industrial purposes. There is one remaining structure within the project limits, which was constructed around 2000. This project anticipates removal of this structure. According to the Historic & Architectural Resources GIS, there there are no apparent resources of interest.

Persuant to the Illinois State Agency Historic Resources Preservation Act, we are requesting that the SHPO review the above-referenced information for its effect on cultural resources prior to submitting the development to the IEPA for their approval. Enclosed for the SHPO review are the project location aerial maps, the USGS topographic map of the site, the DuPage County topographic map of the site, the Historic and Architectural Resources GIS map, and color photos of the structure to be removed. If you have any questions or need any further information, please do not hesitate to call at (630) 652-4669 or email at <a href="mailto:rgilbert@jhainc.com">rgilbert@jhainc.com</a>.

Sincerely,

JACOB & HEFNER ASSOCIATES, INC.

Robert Gilbert Project Manager

Encl: Project Location Aerial Maps

USGS Topographic Map DuPage County Topographic Map

HAR GIS Map Photos of Structure

SHPO LOG #029031825

PLEASE REFER TO:



DuPage County
Naperville
1960 Lucent Ln.
Section:5-Township:38N-Range:10E
IEPA
New Construction, Office and Industrial Facilities

April 7, 2025

Robert Gilbert Jacob and Hefner Associates Inc. 1333 Butterfield Road, Suite 300 Downers Grove, IL 60515

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) to review all state funded, permitted, or licensed undertakings for their effect on cultural resources. Pursuant to this, we have received information regarding the referenced project for our comment.

Our staff has reviewed the specifications under the state law and assessed the impact of the project as submitted by your office. We have determined, based on the available information, that no significant historic, architectural, or archaeological resources will be affected within the proposed project area.

According to the information you have provided there is no federal involvement in your project. Be aware that 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.

This approval remains in effect for two (2) years from date of issuance. It 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).

Please retain this letter in your files as evidence of compliance with the Illinois State Agency Historic Resources Preservation Act.

If further assistance is needed, please contact Jeff Kruchten, Principal Archaeologist, at 217/785-1279 or jeff.kruchten@illinois.gov.

Sincerely,

Carey L. Mayer, AIA

Deputy State Historic Preservation Officer





03/17/2025

H477

IDNR Project Number: 2510813

Date:

Alternate Number:

Applicant: Jacob and Hefner Associates

Contact: Robert Gilbert

Address: 1333 Butterfield Rd Suite #300

Downers Grove, IL 60515

Project: Site Improvement Plans
Address: 1960 Lucent Lane, Naperville

Description: The proposed project includes redevelopment of existing office and industrial use. The proposed redevelopment includes proposed pavement and utility improvements.

### **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:

Herrick Lake Forest Preserve INAI Site

Black-Billed Cuckoo (Coccyzus erythropthalmus)

Black-Crowned Night Heron (Nycticorax nycticorax)

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, 5

IL Department of Natural Resources Contact Isabella Newingham

217-785-5500

Division of Ecosystems & Environment



**Government Jurisdiction** 

IL Environmental Protection Agency Bureau of Water 1021 North Grand Ave Springfield, Illinois 62702 -4059

### 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.

### Security

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.

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

Natalie Phelps Finnie, Director

JB Pritzker, Governor

March 19, 2025

Robert Gilbert Jacob and Hefner Associates 1333 Butterfield Rd Suite #300 Downers Grove, IL 60515

**RE: Site Improvement Plans** 

**Project Number(s): 2510813 [H477]** 

**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 any vegetation clearing work occur on the project area from August 16th through April 30th to avoid the prime nesting season for the Black-billed Cuckoo.

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.

**Bradley Hayes** 

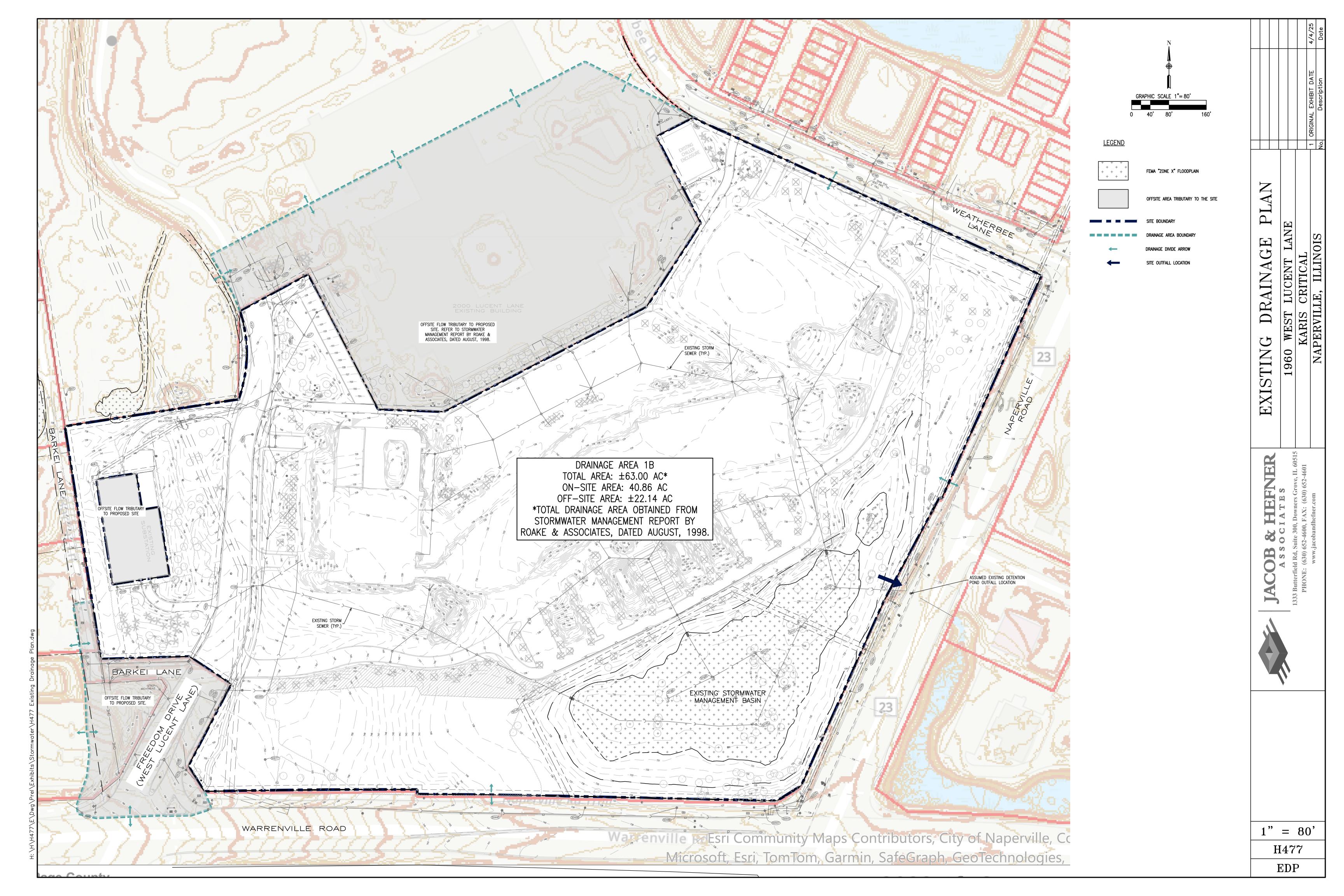
Division of Ecosystems and Environment

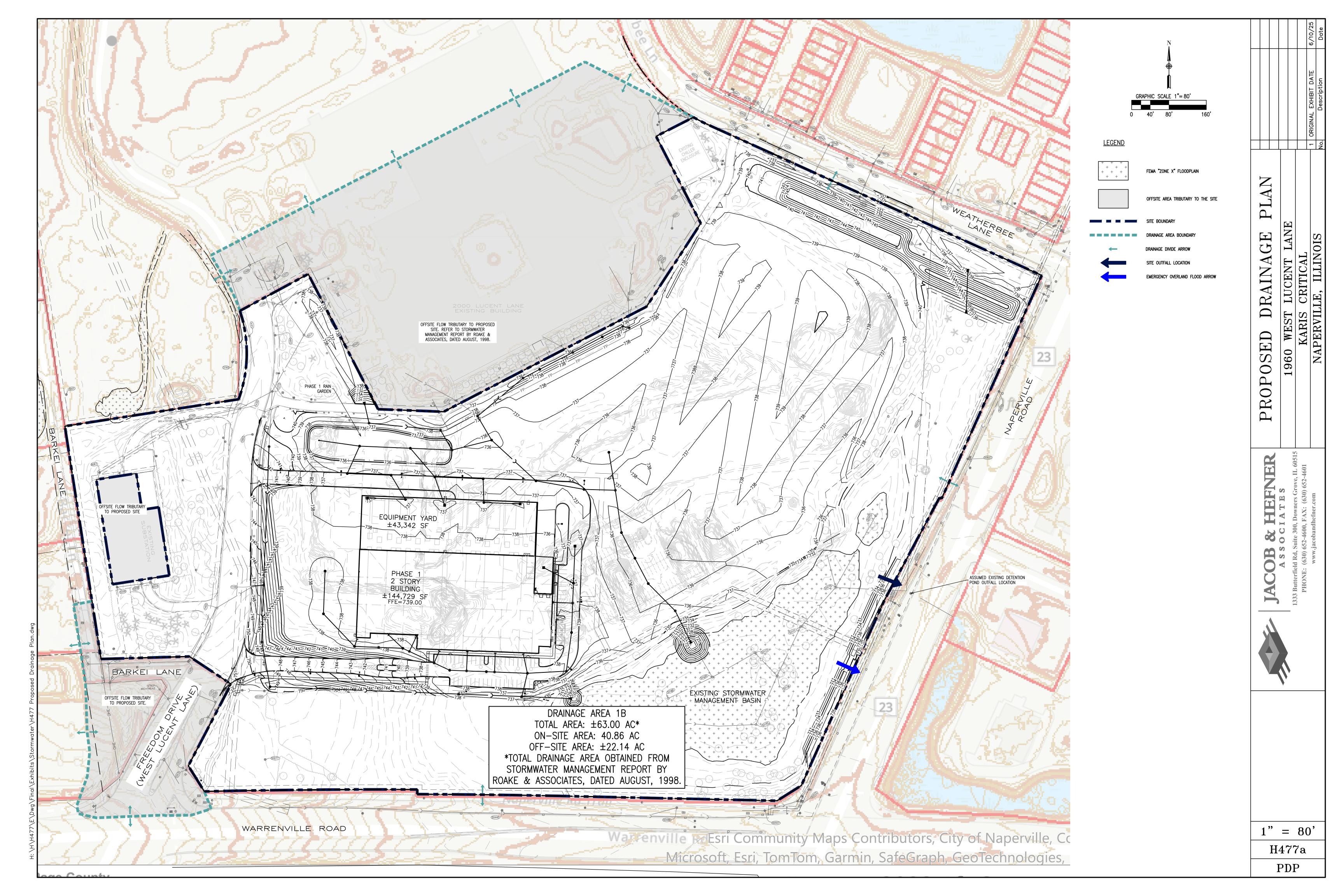
radley play

217-785-5500

# **TAB 2**

SITE RUNOFF STORAGE





# PERVIOUS AND IMPERVIOUS AREA CALCULATIONS



# **Net New Impervious Area Summary**

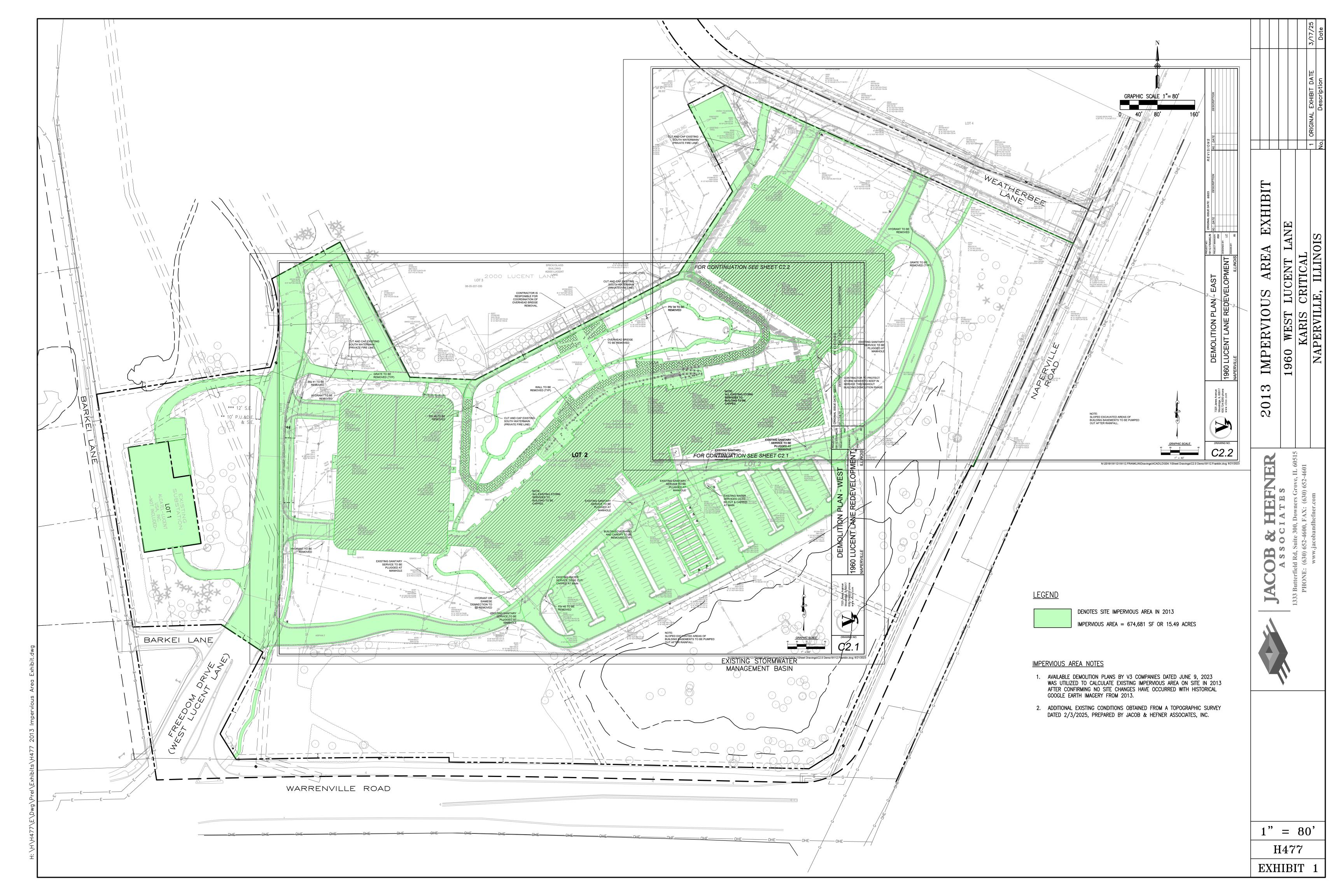
	Impervious Area (sf)	Gross New Impervious Area (sf)	Net New Impervious Area (sf) 1992 Comparison	Net New Impervious Area (sf) 2013 Comparison
1992 Site Conditions	632,748	-	-	-
2013 Existing Conditions (pre-demolition)	674,681	-	-	-
<b>Existing Impervious to Remain</b>	118,874	-	-	-
<b>Proposed Conditions (Phase 1)</b>	212,406	212,406	-301,468	-343,401
Future Land Banked Parking	39,751	252,157	-261,717	-303,650

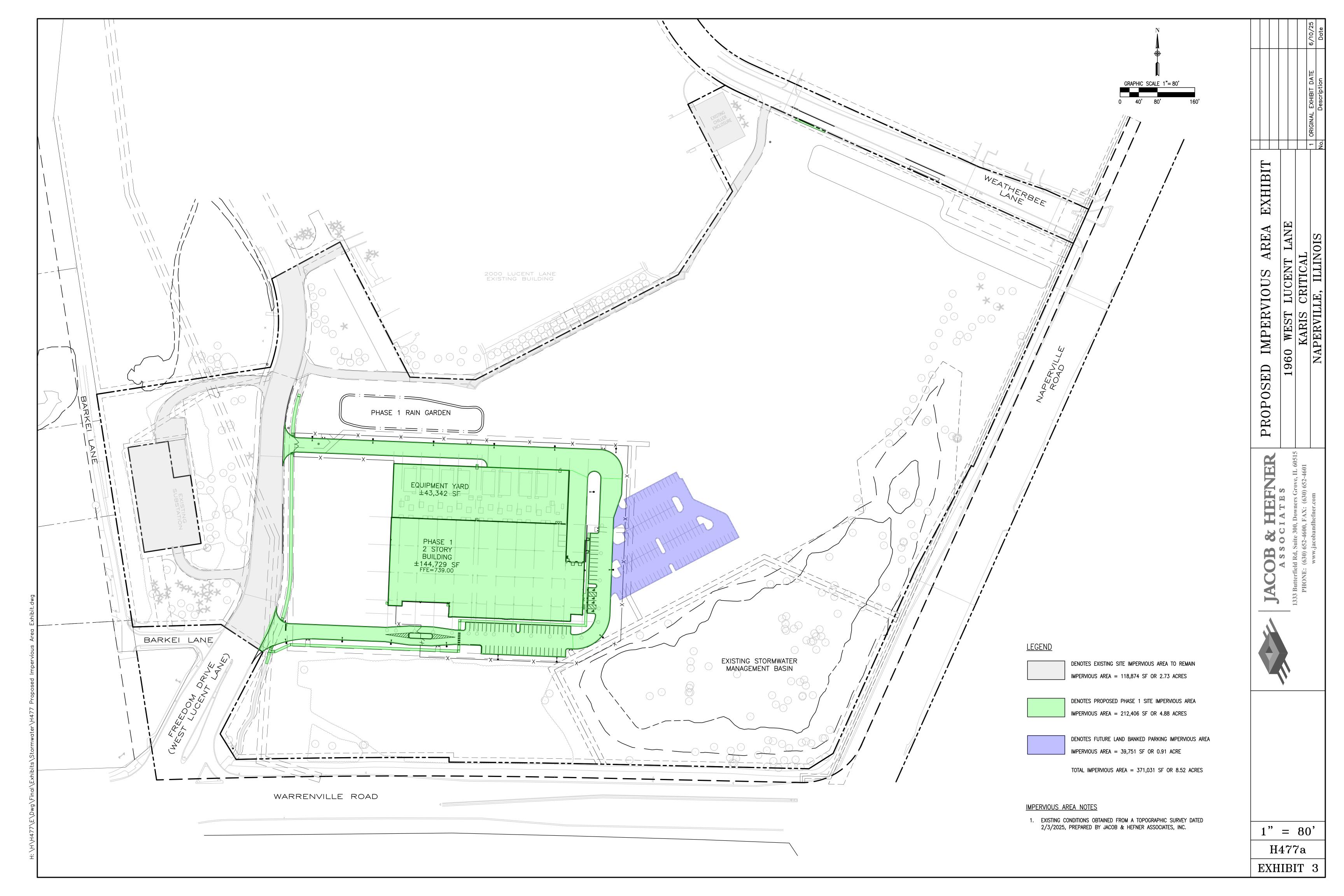
Refer to 1992, 2013, and Proposed Impervious Area Exhibits under this tab for impervious area calculations referenced in the table above.

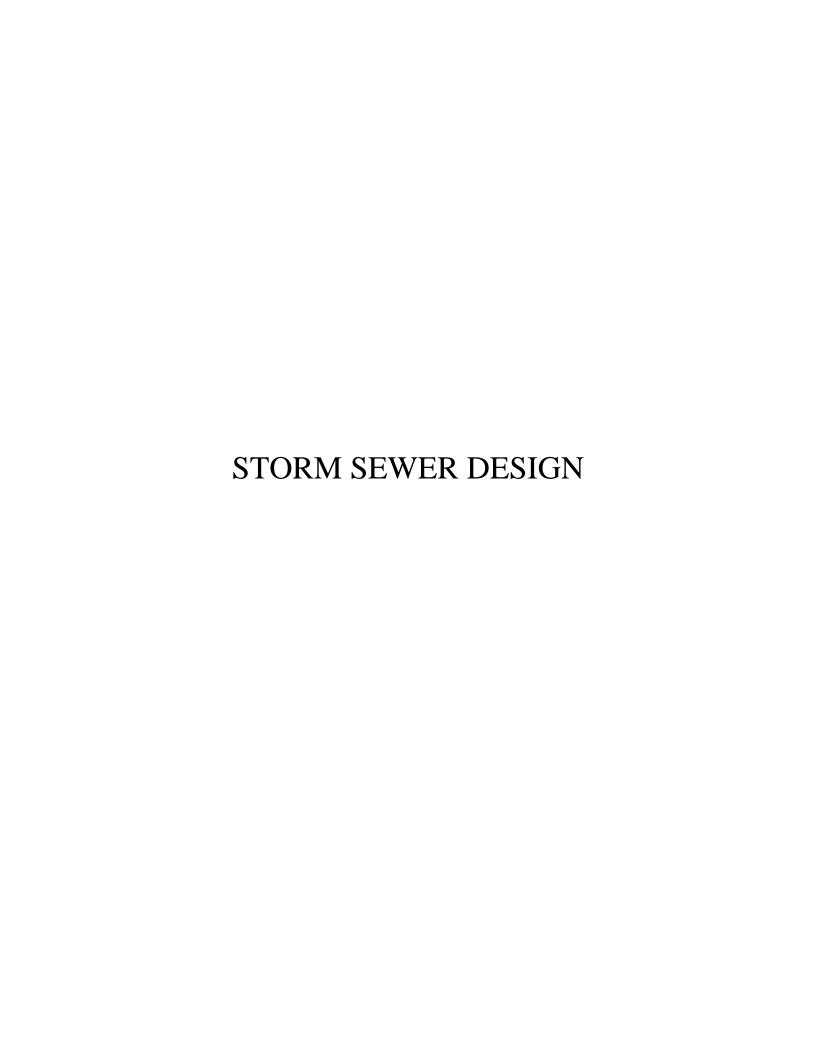


1" = 80'

EXHIBIT 1









# Storm Sewer Design Criteria

Rainfall Return Period:	100-Year Event
Rainfall Duration:	Time of Concentration (Tc)
Rainfall Intensity:	ISWS Bulletin 75, Northeast Zone
Runoff Coefficients (Rc):	Impervious Area: Rc=0.95
	Pervious Area: Rc=0.45
Inlet Time:	10 minutes
Pipe Capacity:	Manning's Equation for full pipe flow capacity N=0.013 (RCP)



# Runoff Coefficient (RC) Calculations

Project: 1960 Lucent	By: RJC/JRL	Date:	6/10/2025
Location: Naperville, Illinois	Revised	Date:	

Project #: H477

### PROPOSED STORM SEWER

Sub Basin	$A_{i}$	$A_{i}$	$A_p$	$A_p$	$A_T$	$A_T$	RC
	(SQ FT)	(AC)	(SQ FT)	(AC)	(SQ FT)	(AC)	
		SE	RIES 100 (10	0-YR DESI	GN)		
CB-103	1,292	0.03	50,964	1.17	52,256	1.20	0.46
CB-110	8,682	0.20	0	0.00	8,682	0.20	0.95
CB-111	7,031	0.16	0	0.00	7,031	0.16	0.95
CB-112	22,869	0.53	12,719	0.29	35,588	0.82	0.77
CB-113	823	0.02	5,624	0.13	6,447	0.15	0.51
CB-115	270	0.01	4,816	0.11	5,086	0.12	0.48
CB-116	818	0.02	28,998	0.67	29,816	0.68	0.46
CB-117	564	0.01	21,455	0.49	22,019	0.51	0.46
CB-131	3,539	0.08	0	0.00	3,539	0.08	0.95
CB-132	6,795	0.16	0	0.00	6,795	0.16	0.95
INL-132A	7,899	0.18	3,272	0.08	11,171	0.26	0.80
INL-132B	2,890	0.07	0	0.00	2,890	0.07	0.95
RD-110A	15,206	0.35	0	0.00	15,206	0.35	0.95
RD-111A	12,745	0.29	0	0.00	12,745	0.29	0.95
RD-112A	12,915	0.30	0	0.00	12,915	0.30	0.95
RD-112B	9,793	0.22	0	0.00	9,793	0.22	0.95
RD-114	8,532	0.20	0	0.00	8,532	0.20	0.95
RD-115	9,578	0.22	0	0.00	9,578	0.22	0.95
RD-131A	12,747	0.29	0	0.00	12,747	0.29	0.95
			ERIES 200 (10	0-YR DESI			
CB-202	0	0.00	39,638	0.91	39,638	0.91	0.45
CB-203	0	0.00	127,517	2.93	127,517	2.93	0.45
CB-204	0	0.00	16,942	0.39	16,942	0.39	0.45
CB-205A	0	0.00	154,777	3.55	154,777	3.55	0.45
CB-206	4,657	0.11	339	0.01	4,996	0.11	0.92
CB-207	5,330	0.12	0	0.00	5,330	0.12	0.95
CB-208	5,379	0.12	0	0.00	5,379	0.12	0.95
CB-209	2,983	0.07	1,476	0.03	4,459	0.10	0.78
CB-210	2,910	0.07	1,549	0.04	4,459	0.10	0.78
CB-211	19,935	0.46	18,004	0.41	37,939	0.87	0.71
INL-212	5,259	0.12	3,506	0.08	8,765	0.20	0.75
CB-213	5,098	0.12	3,399	0.08	8,497	0.20	0.75
INL-214	6,786	0.16	4,524	0.10	11,310	0.26	0.75
CB-215	3,616	0.08	2,410	0.06	6,026	0.14	0.75



1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

Project: 1960 Lucent	By: RJC/JRL	Date:	6/10/2025
Location: Naperville, Illinois	Revised	Date:	

Project #: H477

### PROPOSED STORM SEWER

Sub Basin	$A_{i}$	$A_{i}$	$A_{p}$	$A_p$	$A_T$	$A_T$	RC
	(SQ FT)	(AC)	(SQ FT)	(AC)	(SQ FT)	(AC)	
INL-216	5,247	0.12	3,498	0.08	8,745	0.20	0.75
CB-220	0	0.00	27,918	0.64	27,918	0.64	0.45
CB-220 COMB	48,350	1.11	60,376	1.39	108,726	2.50	0.67
CB-221	0	0.00	14,313	0.33	14,313	0.33	0.45
CB-222	816	0.02	35,238	0.81	36,054	0.83	0.46
CB-225	4,348	0.10	6,881	0.16	11,229	0.26	0.64
CB-227	2,684	0.06	8,260	0.19	10,944	0.25	0.57

### **Notes**

1) Impervious Runoff Coefficient = 0.95 MH = Manhole  $A_T$  = Total Area 2) Pervious Runoff Coefficient = 0.45 INL = Inlet Ai = Impervious Area 3) Areas are assumed to be fully developed (both proposed and future condition) RD = Roof Drain Ap = Pervious Area CB = Catch Basin

4) Assumes all areas to be fully impervious unless otherwise noted.



1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

### **INLET CAPACITY CALCULATIONS**

Project: 1960 Lucent	By: <i>RJC/JRL</i>	Date:	6/10/2025
Location: Naperville, Illinois	Checked:	Date:	
Project #: <i>H477</i>	·		

STRUCTURE #	DRAINAGE AREA (AC)	RUNOFF COEFFICIENT	FLOW (CFS)	HEIGHT (FT)	PERIMETER OF GRATE (FT)	OPEN AREA OF GRATE (S.F.)	WEIR FLOW CAPACITY (CFS)	ORIFICE FLOW CAPACITY (CFS)	GRATE TYPE
				SERI	ES 100 (100-YR DE	SIGN)			
CB-103	1.20	0.46	6.86	0.35	10.2	5.40	6.97	15.38	9P
CB-110	0.20	0.95	2.34	0.30	6.0	0.90	3.25	2.37	1P
CB-111	0.16	0.95	1.90	0.25	6.0	0.90	2.48	2.17	1P
CB-112	0.82	0.77	7.79	0.40	9.9	3.00	8.26	9.14	2P
CB-113	0.15	0.51	0.94	0.15	6.0	1.10	1.15	2.05	8P
CB-115	0.12	0.48	0.69	0.15	6.0	1.10	1.15	2.05	8P
CB-116	0.68	0.46	3.92	0.55	6.0	1.10	8.08	3.93	8P
CB-117	0.51	0.46	2.89	0.30	6.0	1.10	3.25	2.90	8P
CB-131	0.08	0.95	0.95	0.15	6.0	0.90	1.15	1.68	1P
CB-132	0.16	0.95	1.83	0.25	6.0	0.90	2.48	2.17	1P
INL-132A	0.26	0.80	2.55	0.35	6.0	0.90	4.10	2.56	1P
INL-132B	0.07	0.95	0.78	0.15	6.0	0.90	1.15	1.68	1P
				SERI	ES 200 (100-YR DE	SIGN)			
CB-202	0.91	0.45	5.06	0.95	6.0	1.10	18.33	5.16	8P
CB-203	2.93	0.45	16.28	0.65	10.2	5.40	17.64	20.96	9P
CB-204	0.39	0.45	2.16	0.25	6.0	1.10	2.48	2.65	8P
CB-205A	3.55	0.45	19.76	0.75	10.2	5.40	21.86	22.52	9P
CB-206	0.11	0.92	1.30	0.20	6.0	0.90	1.77	1.94	1P
CB-207	0.12	0.95	1.44	0.20	6.0	0.90	1.77	1.94	1P
CB-208	0.12	0.95	1.45	0.20	6.0	0.90	1.77	1.94	1P
CB-209	0.10	0.78	0.99	0.15	6.0	0.90	1.15	1.68	1P
CB-210	0.10	0.78	0.98	0.15	6.0	0.90	1.15	1.68	1P
CB-211	0.87	0.71	7.67	0.40	9.9	3.00	8.26	9.14	2P
INL-212	0.20	0.75	1.87	0.25	6.0	0.90	2.48	2.17	1P
CB-213	0.20	0.75	1.81	0.25	6.0	0.90	2.48	2.17	1P
INL-214	0.26	0.75	2.41	0.35	6.0	0.90	4.10	2.56	1P
CB-215	0.14	0.75	1.28	0.20	6.0	0.90	1.77	1.94	1P
INL-216	0.20	0.75	1.86	0.25	6.0	0.90	2.48	2.17	1P
CB-220	0.64	0.45	3.56	0.50	6.0	1.10	7.00	3.75	8P
CB-220 COMB			5.40	21.86	22.52	9P			
	CB-221 0.33 (		1.83	0.25	6.0	1.10	2.48	2.65	8P
CB-222	0.83	0.46	4.72	0.80	6.0	1.10	14.17	4.74	8P
CB-225	0.26	0.64	2.05	0.25	6.0	1.10	2.48	2.65	8P
CB-227	0.25	0.57	1.78	0.25	6.0	1.10	2.48	2.65	8P

## **EQUATIONS**:

flow weir flow orifice flow Q=cia  $Q=3.3 P (h)^1.5 Q=CA(2gh)\frac{1}{2}$ 

c = Runoff Coefficient i = Intensity - 7.44 in/hr Bulletin 75 NE - 10-Yr 5-min Storm i = Intensity - 12.36 in/hr

Bulletin 75 NE - 100-Yr 5-min Storm a = Drainage Area A = Open Area of Grate

C = 0.6 g = 32.2 ft/s

h = Ponding Above Rim (6" Max., 9" Max. adjacent to B9.12 C&G)

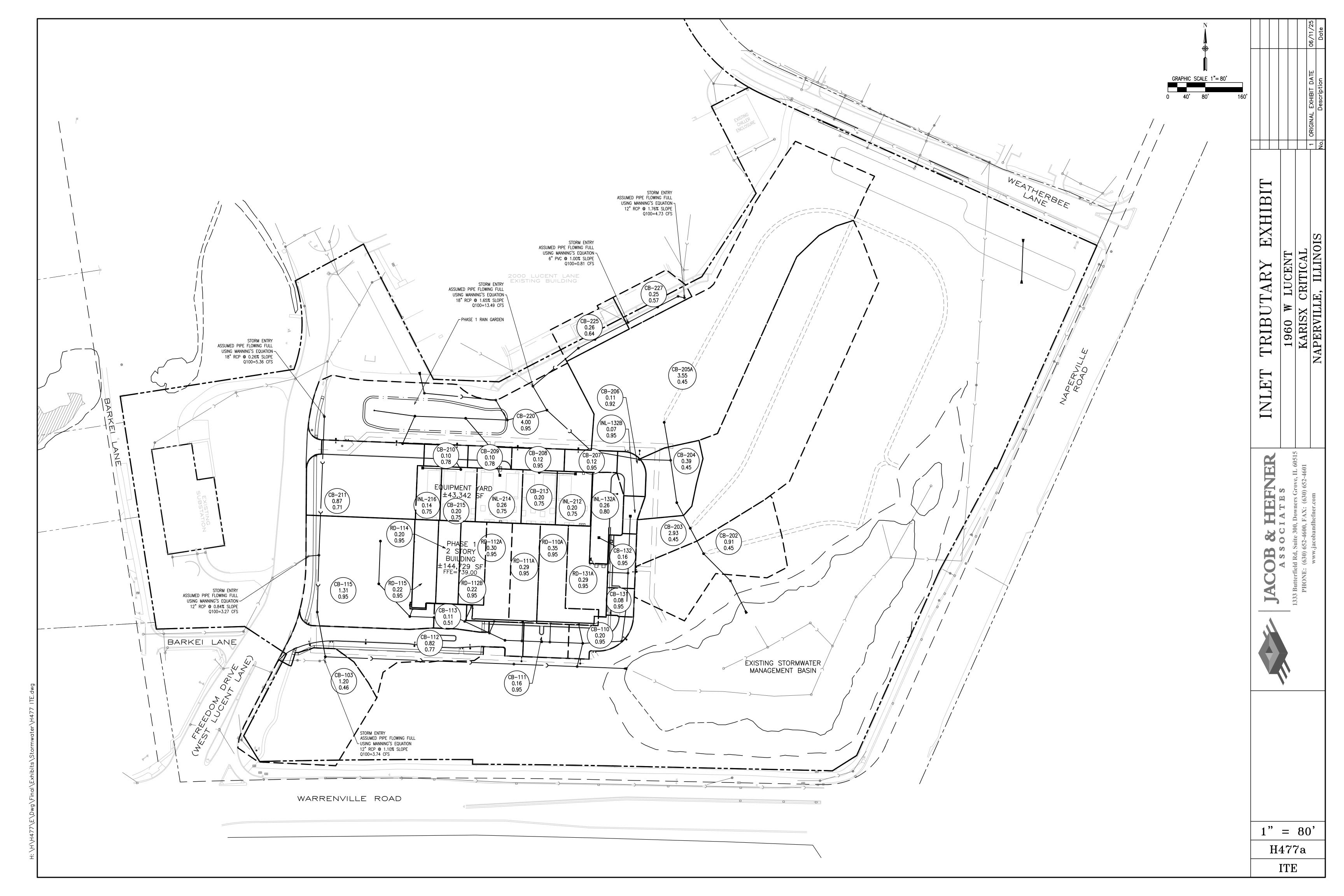
P = Perimeter of grate in feet

## Grate Geometry:

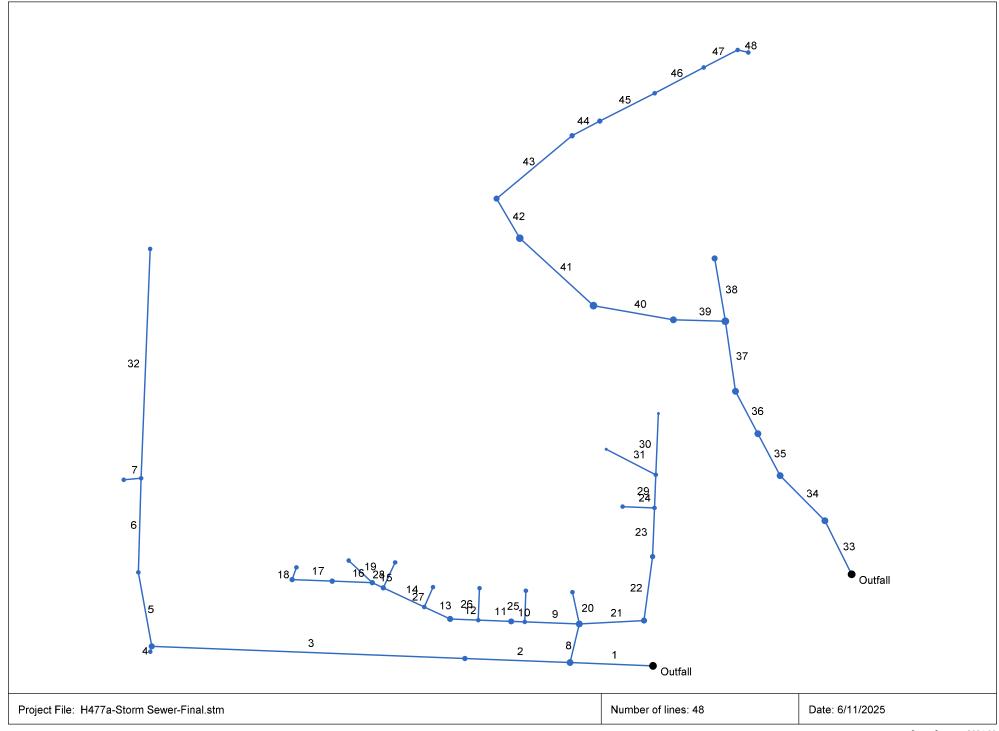
Grate	Perimeter (ft)	Area (sq ft)	Plan Symbol
Neenah R-2502-D	6.0	0.9	1P
Neenah R-2502-E	6.0	1.5	1PP
Neenah R-3278-A (IDOT TYPE 3)	4.6	1.2	3P
Neenah R-4340-B (IDOT TYPE 8)	6.0	1.1	8P
Neenah R-1772 (CLOSED)	N/A	N/A	1C
Neenah R2580-C Grate G	9.9	3.0	2P
Neenah R-4349-D	10.2	5.4	9P

### **Assumptions**

All storm sewers with a runoff coefficient of 0.95 are assumed to have fully impervious tributary drainage areas.



# Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



# **Storm Sewer Tabulation**

Statio	n	Len	Drng A	rea	Rnoff	Area x	С	Тс		Rain	Total	Сар	Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
Line	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	107.063	0.00	6.24	0.00	0.00	5.11	0.0	55.4	4.3	34.14	94.16	6.53	48	0.43	727.00	727.46	728.74	729.20	731.68	737.93	MH-101
2	1	135.762	0.00	1.20	0.00	0.00	0.55	0.0	11.8	10.2	17.98	21.98	4.90	30	0.29	727.43	727.82	729.20	729.55	737.93	736.97	MH-102
3	2	404.219	1.20	1.20	0.46	0.55	0.55	10.0	10.0	10.8	18.35	20.80	4.79	30	0.26	727.82	728.86	729.64	730.68	736.97	748.00	CB-103
4	3	7.256	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	3.74	6.61	7.04	12	3.45	745.00	745.25	745.54	746.07	748.00	750.30	MH-103A
5	3	97.273	0.00	0.00	0.00	0.00	0.00	0.0	2.4	0.0	8.63	11.23	2.75	24	0.25	728.86	729.10	731.03	731.17	748.00	747.40	MH-104
6	5	121.970	0.00	0.00	0.00	0.00	0.00	0.0	1.6	0.0	8.63	11.59	2.76	24	0.26	729.10	729.42	731.20	731.37	747.40	745.34	MH-105
7	6	22.493	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	3.27	3.10	4.45	12	0.76	739.00	739.17	739.88	740.05	745.34	747.67	MH-105A
8	1	51.235	0.20	5.04	0.95	0.19	4.55	10.0	55.2	4.3	19.46	24.36	2.81	42	0.06	727.43	727.46	729.80	729.82	737.93	737.11	CB-110
9	8	70.429	0.00	3.98	0.00	0.00	3.59	0.0	11.4	10.3	36.88	64.07	6.68	36	0.92	727.46	728.11	729.95	730.08	737.11	737.28	MH-110A
10	9	17.542	0.16	3.63	0.95	0.15	3.25	10.0	11.4	10.3	33.54	63.70	7.00	36	0.91	728.11	728.27	730.08	730.15	737.28	737.10	CB-111
11	10	42.458	0.00	3.47	0.00	0.00	3.10	0.0	11.2	10.4	32.15	63.92	6.99	36	0.92	728.27	728.66	730.15	730.50	737.10	737.47	MH-111A
12	11	36.282	0.82	3.18	0.77	0.63	2.83	10.0	11.1	10.4	29.44	63.61	6.67	36	0.91	728.66	728.99	730.50	730.75	737.47	737.10	CB-112
13	12	36.810	0.00	2.36	0.00	0.00	2.19	0.0	10.9	10.5	22.97	39.42	6.51	30	0.92	728.99	729.33	730.75	730.96	737.10	737.57	MH-112A
14	13	58.507	0.00	2.06	0.00	0.00	1.91	0.0	10.7	10.6	20.16	39.40	6.19	30	0.92	729.33	729.87	730.96	731.39	737.57	737.39	MH-112B
15	14	15.550	0.11	1.84	0.51	0.06	1.70	10.0	10.6	10.6	18.00	40.28	5.96	30	0.96	729.87	730.02	731.39	731.46	737.39	737.20	CB-113
16	15	51.778	0.00	1.53	0.00	0.00	1.45	0.0	10.4	10.7	15.54	39.07	5.60	30	0.91	730.02	730.49	731.46	731.82	737.20	737.75	MH-114
17	16	51.778	1.31	1.53	0.95	1.24	1.45	10.0	10.1	10.8	15.70	39.49	5.90	30	0.93	730.49	730.97	731.82	732.31	737.75	737.20	CB-115
18	17	16.825	0.22	0.22	0.95	0.21	0.21	10.0	10.0	10.8	2.27	3.88	4.69	12	1.19	732.80	733.00	733.35	733.64	737.20	738.30	RD-115
19	15	41.796	0.20	0.20	0.95	0.19	0.19	10.0	10.0	10.8	2.06	3.70	4.46	12	1.08	732.55	733.00	733.08	733.61	737.20	738.43	RD-114
20	8	42.163	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.01	4.25	1.03	12	1.42	732.40	733.00	732.44	733.04	737.11	738.24	RD-110
21	8	83.617	0.00	0.86	0.00	0.00	0.78	0.0	12.8	9.8	7.64	15.54	1.57	30	0.14	727.46	727.58	729.95	729.97	737.11	738.12	MH-130
22	21	83.505	0.08	0.86	0.95	0.08	0.78	10.0	12.0	10.1	7.86	15.55	1.63	30	0.14	727.58	727.70	730.01	730.04	738.12	738.00	CB-131
Proje	Project File: H477a-Storm Sewer-Final.stm												Number	of lines: 4	8	1	Run Da	te: 6/11/20	)25			

NOTES:Intensity = 157.45 / (Inlet time + 12.90) ^ 0.85; Return period =Yrs. 100; c = cir e = ellip b = box

# **Storm Sewer Tabulation**

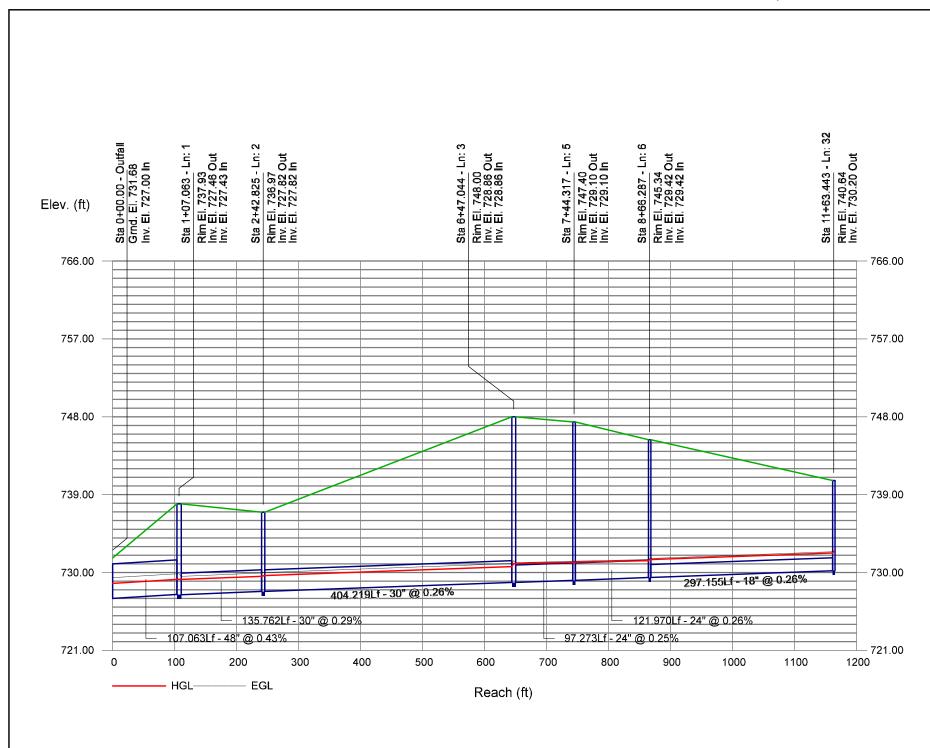
Statio	n	Len	Drng A	rea	Rnoff	Area x	С	Тс		Rain	Total	Сар	Vel	Pipe		Invert Ele	ev	HGL Ele	v	Grnd / Ri	Line ID	
Line	То		Incr	Total	coeff	Incr	Total	Inlet	Syst	(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
23	22	63.123	0.00	0.78	0.00	0.00	0.70	0.0	11.7	10.2	7.15	7.59	4.89	18	0.52	729.80	730.13	730.96	731.29	738.00	737.44	MH-131A
24	23	41.208	0.29	0.29	0.95	0.28	0.28	10.0	10.0	10.8	2.99	4.30	5.35	12	1.46	732.40	733.00	733.01	733.74	737.44	738.37	RD-131A
25	9	40.376	0.35	0.35	0.95	0.33	0.33	10.0	10.0	10.8	3.60	4.34	5.74	12	1.49	732.40	733.00	733.10	733.81	737.28	738.24	RD-110A
26	11	41.334	0.29	0.29	0.95	0.28	0.28	10.0	10.0	10.8	2.99	4.29	5.35	12	1.45	732.40	733.00	733.01	733.74	737.47	738.42	RD-111A
27	13	28.012	0.30	0.30	0.95	0.29	0.29	10.0	10.0	10.8	3.09	5.21	5.89	12	2.14	732.40	733.00	732.95	733.75	737.57	738.32	RD-112A
28	14	36.333	0.22	0.22	0.95	0.21	0.21	10.0	10.0	10.8	2.27	4.58	5.03	12	1.65	732.40	733.00	732.90	733.64	737.39	738.97	RD-112B
29	23	42.836	0.16	0.49	0.95	0.15	0.43	10.0	11.4	10.3	4.39	7.53	2.54	18	0.51	730.13	730.35	731.66	731.72	737.44	736.85	CB-132
30	29	79.392	0.07	0.07	0.95	0.07	0.07	10.0	10.0	10.8	0.72	5.93	1.91	12	2.77	730.35	732.55	731.82	732.90	736.85	736.55	INL-132B
31	29	72.019	0.26	0.26	0.80	0.21	0.21	10.0	10.0	10.8	2.25	2.65	2.87	12	0.56	730.35	730.75	731.82	732.11	736.85	734.40	INL-132A
32	6	297.155	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	5.36	5.38	3.03	18	0.26	729.42	730.20	731.49	732.26	745.34	740.64	MH-106
33	End	77.504	0.00	12.52	0.00	0.00	7.83	0.0	28.6	6.5	70.02	134.0	7.96	54	0.46	721.50	721.86	723.94	724.30	726.54	735.63	MH-201
34	33	82.085	0.91	12.52	0.45	0.41	7.83	16.8	28.3	6.6	70.35	135.6	7.99	54	0.48	721.86	722.25	724.30	724.69	735.63	735.10	CB-202
35	34	61.500	2.93	11.61	0.45	1.32	7.42	27.0	28.1	6.6	67.91	114.9	7.52	54	0.34	726.00	726.21	728.49	728.70	735.10	735.10	CB-203
36	35	62.000	0.39	8.68	0.45	0.18	6.10	10.0	27.8	6.6	59.45	111.7	6.37	54	0.32	726.21	726.41	728.83	728.91	735.10	735.10	CB-204
37	36	91.669	0.00	8.29	0.00	0.00	5.92	0.0	27.4	6.7	58.63	114.4	6.06	54	0.34	726.41	726.72	729.17	729.24	735.10	736.71	MH-205
38	37	82.511	3.55	3.55	0.45	1.60	1.60	27.0	27.0	6.7	10.78	21.56	6.24	24	0.91	729.00	729.75	730.00	730.93	736.71	735.10	CB-205A
39	37	67.190	0.11	4.74	0.92	0.10	4.32	10.0	13.0	9.8	61.19	57.57	6.71	42	0.33	726.72	726.94	729.87	730.09	736.71	736.35	CB-206
40	39	104.556	0.12	4.63	0.95	0.11	4.22	10.0	12.7	9.8	60.58	58.21	6.49	42	0.33	726.94	727.29	730.21	730.53	736.35	736.25	CB-207
41	40	129.110	4.00	4.51	0.95	3.80	4.11	10.0	12.4	10.0	59.93	58.06	6.23	42	0.33	727.29	727.72	730.92	731.38	736.25	735.40	CB-220
42	41	59.349	0.00	0.51	0.00	0.00	0.31	0.0	12.2	10.0	22.13	23.81	4.51	30	0.34	727.72	727.92	731.59	731.76	735.40	737.59	MH-223
43	42	127.085	0.00	0.51	0.00	0.00	0.31	0.0	11.4	10.3	8.72	26.54	2.78	24	1.38	725.50	727.25	732.07	732.26	737.59	735.57	MH-224
44	43	40.335	0.26	0.51	0.64	0.17	0.31	10.0	11.2	10.4	8.75	13.32	2.78	24	0.35	728.34	728.48	732.29	732.35	735.57	735.15	CB-225
Proje	Project File: H477a-Storm Sewer-Final.stm											Number	of lines: 4	.8		Run Da	Le: 6/11/20	) 125				

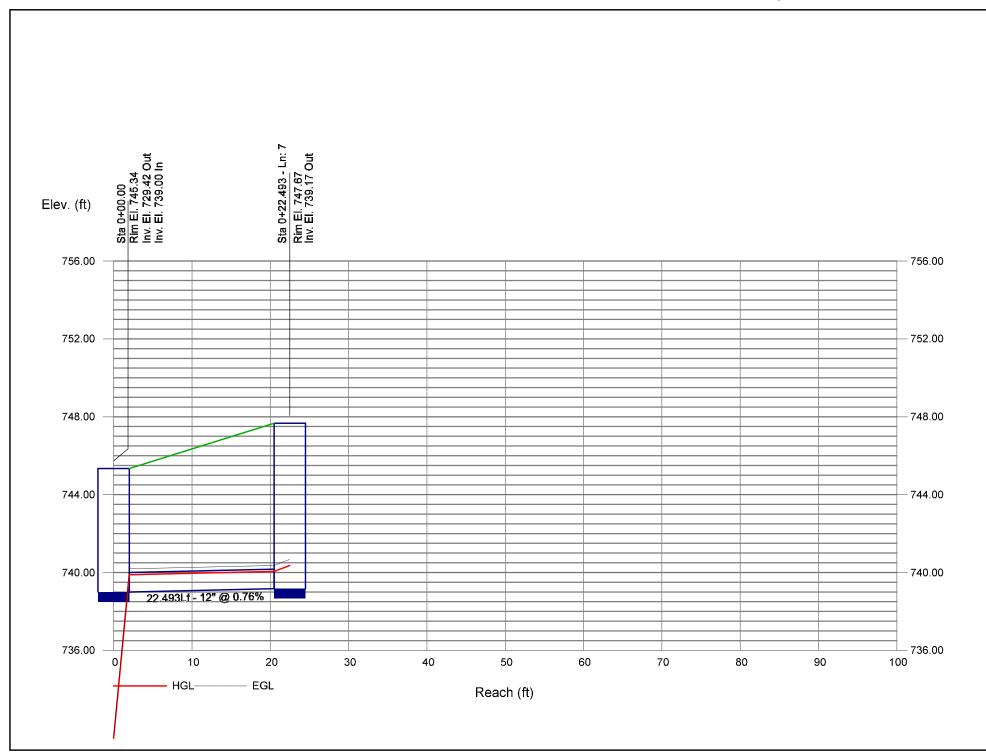
NOTES:Intensity = 157.45 / (Inlet time + 12.90) ^ 0.85; Return period =Yrs. 100; c = cir e = ellip b = box

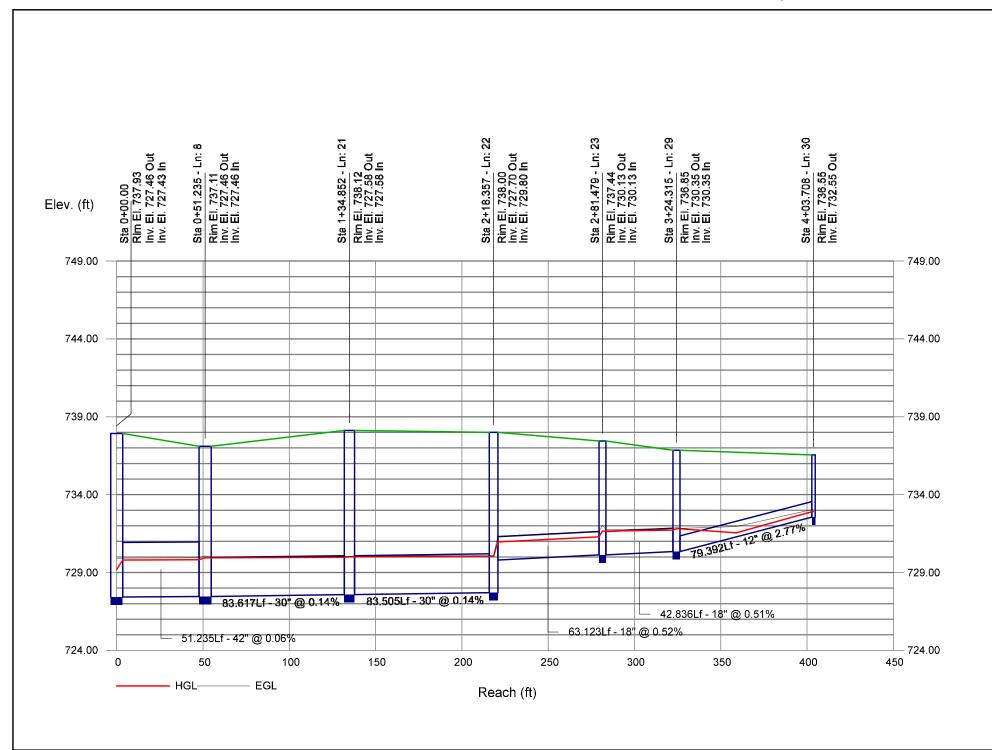
# **Storm Sewer Tabulation**

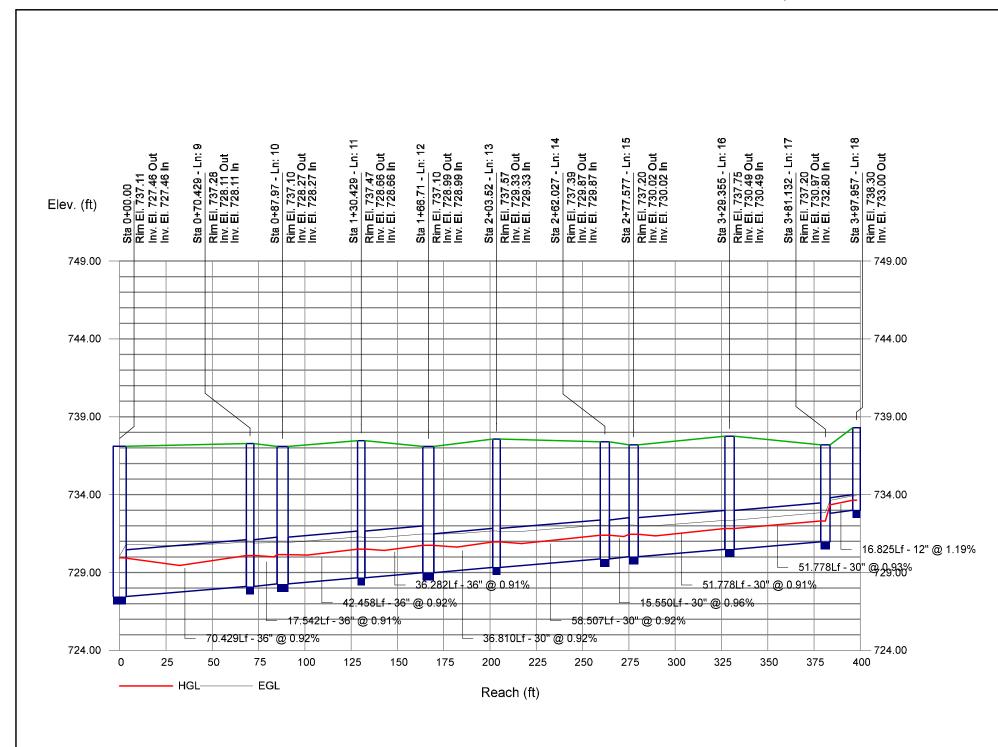
tatio	n		Drng Area		Rnoff	Area x C		Тс			Total		Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
ine	To Line		Incr	Total	(C)	Incr	Total	Inlet	Syst	<b>(1)</b>		full (cfs)		Size		Dn	Up		Up (ft)	Dn	Up	
			(ac)	(ac)				(min)	(min)	(in/hr)				(in)		(ft)	(ft)			(ft)	(ft)	
15	44	79.559	0.00	0.25	0.00	0.00	0.14	0.0	10.6	10.6	7.05	12.93	2.24	24	0.33	728.48	728.74	732.37	732.45	735.15	735.89	MH-226
16	45	71.444	0.25	0.25	0.57	0.14	0.14	10.0	10.0	10.8	6.27	13.11	2.00	24	0.34	728.74	728.98	732.46	732.51	735.89	735.15	CB-227
<b>1</b> 7	46	49.419	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	4.73	6.16	2.68	18	0.34	728.98	729.15	732.52	732.62	735.15	735.64	MH-228
48	47	14.070	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	4.73	3.68	6.02	12	1.07	727.00	727.15	732.70	732.95	735.64	737.03	MH-229
	ect File	H477a-	Storm S	Sewer-Fii	nal.stm											Numbe	r of lines: 4	18		Run Da	te: 6/11/20	025

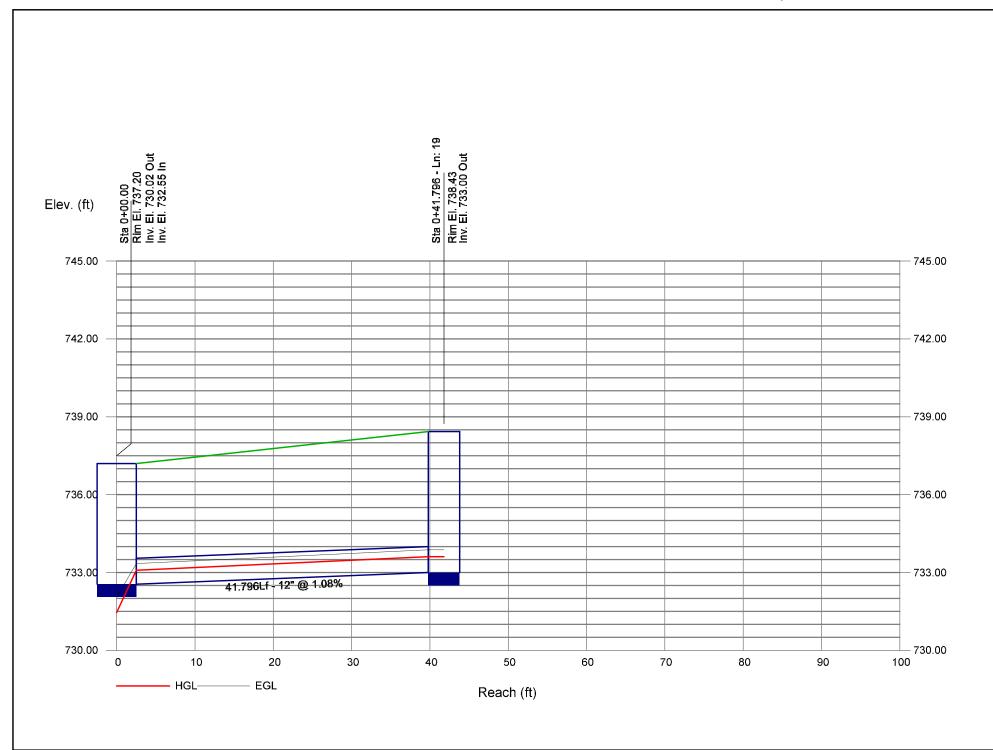
NOTES:Intensity = 157.45 / (Inlet time + 12.90) ^ 0.85; Return period =Yrs. 100; c = cir e = ellip b = box

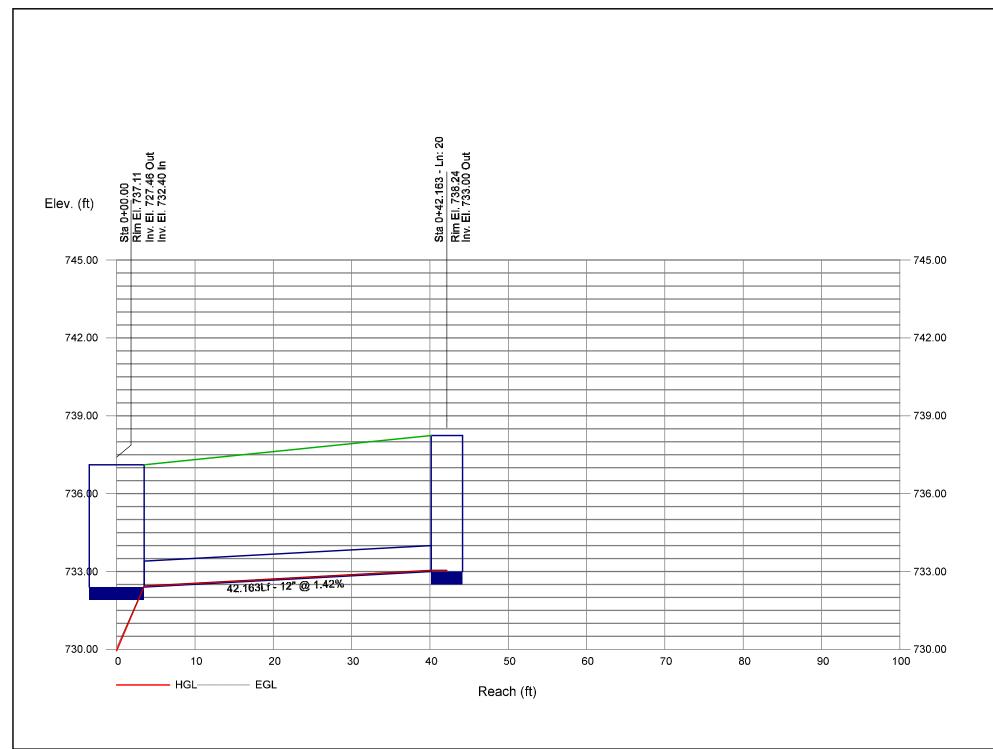


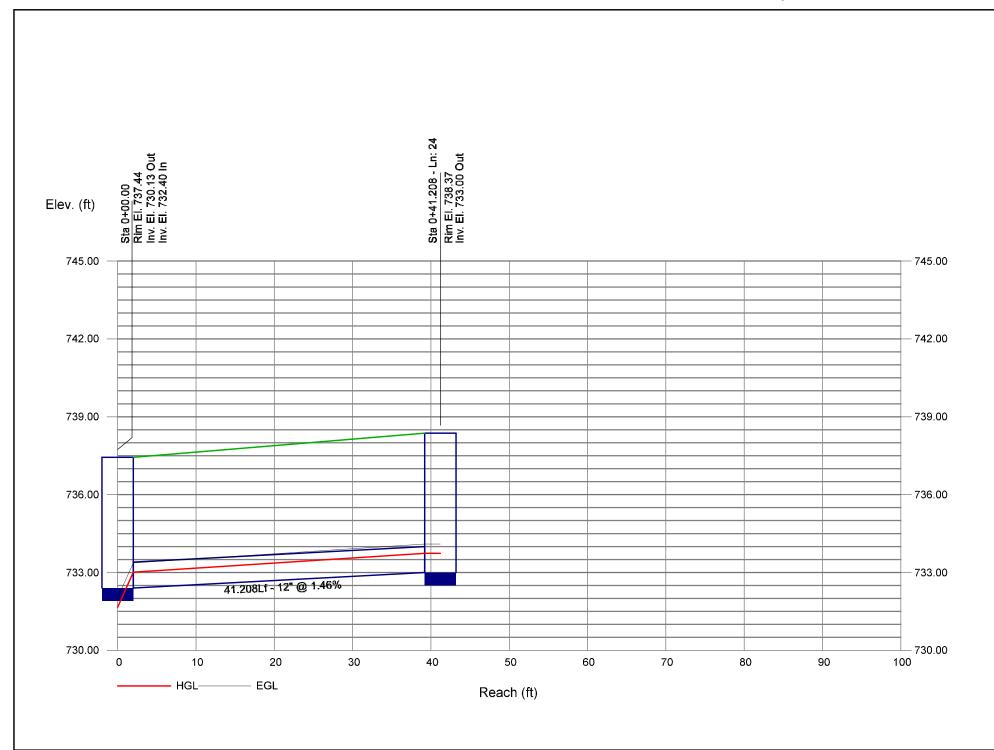


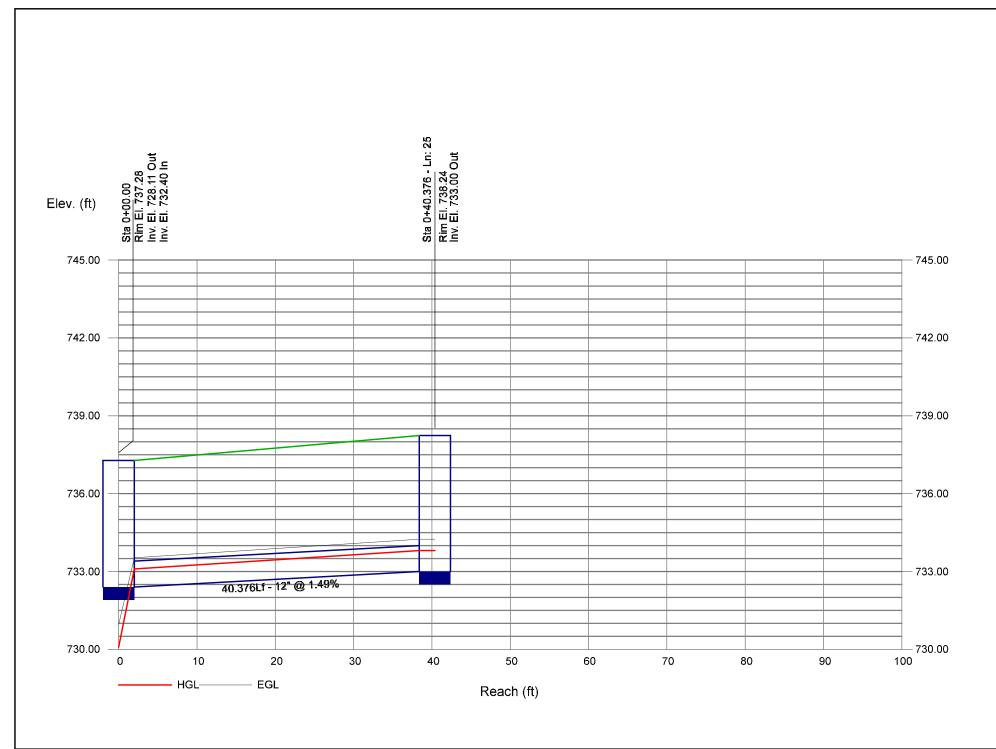


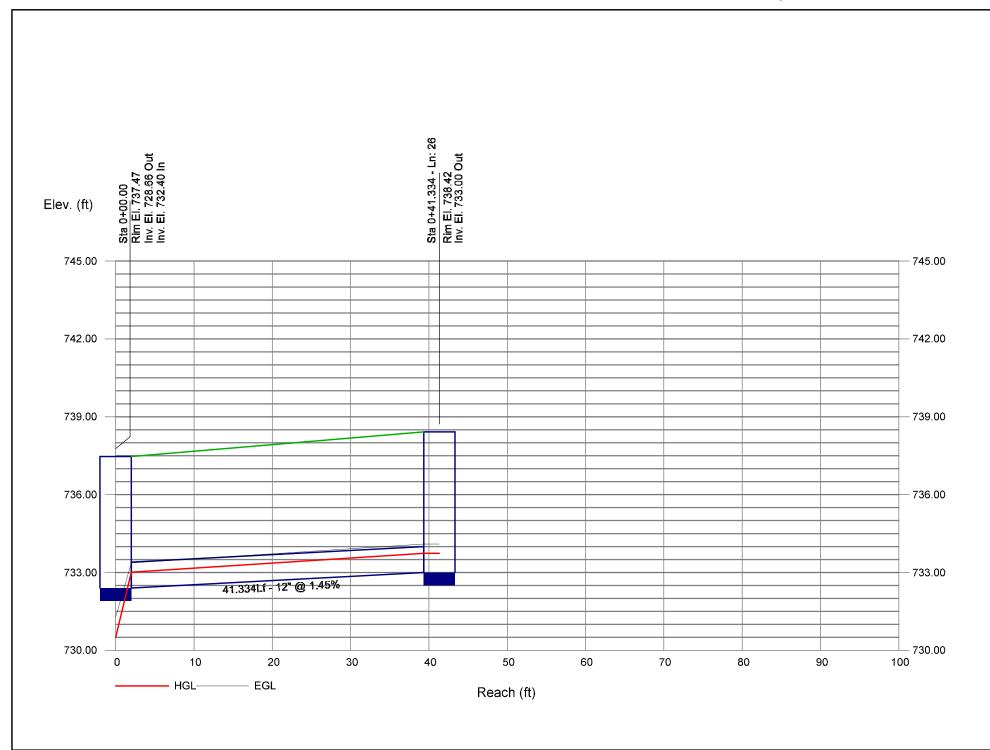


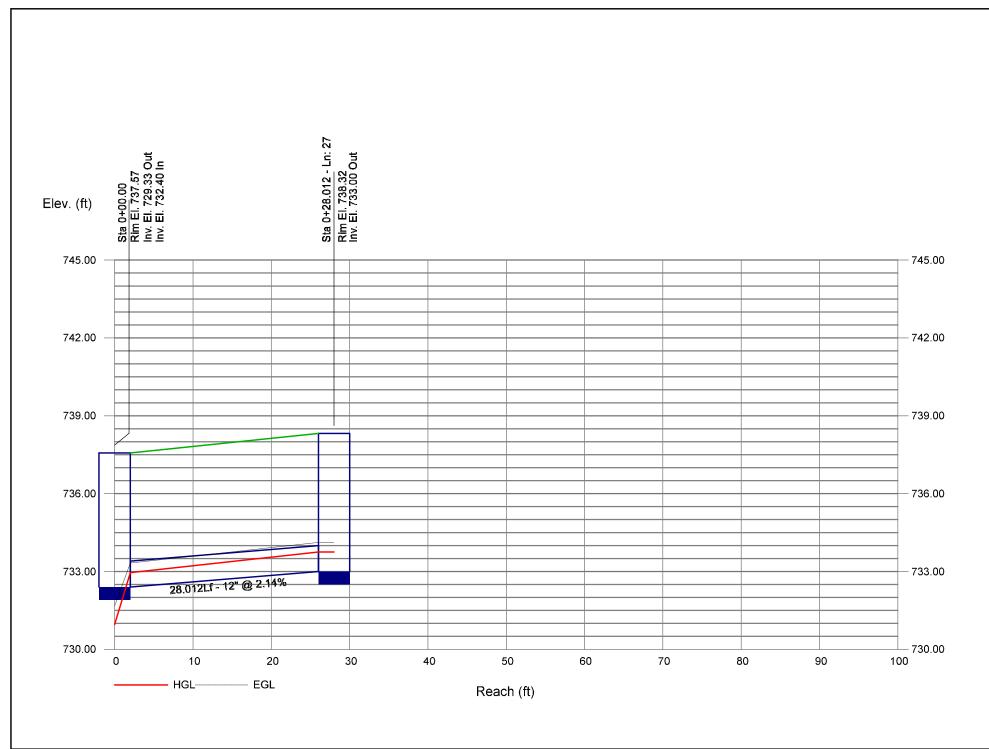


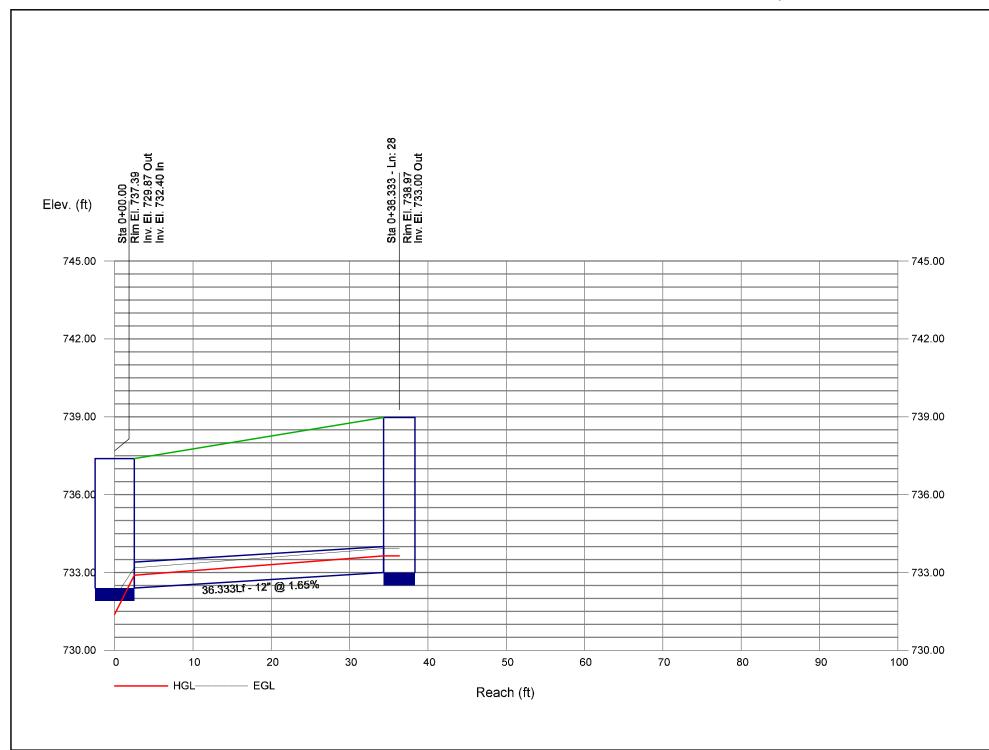


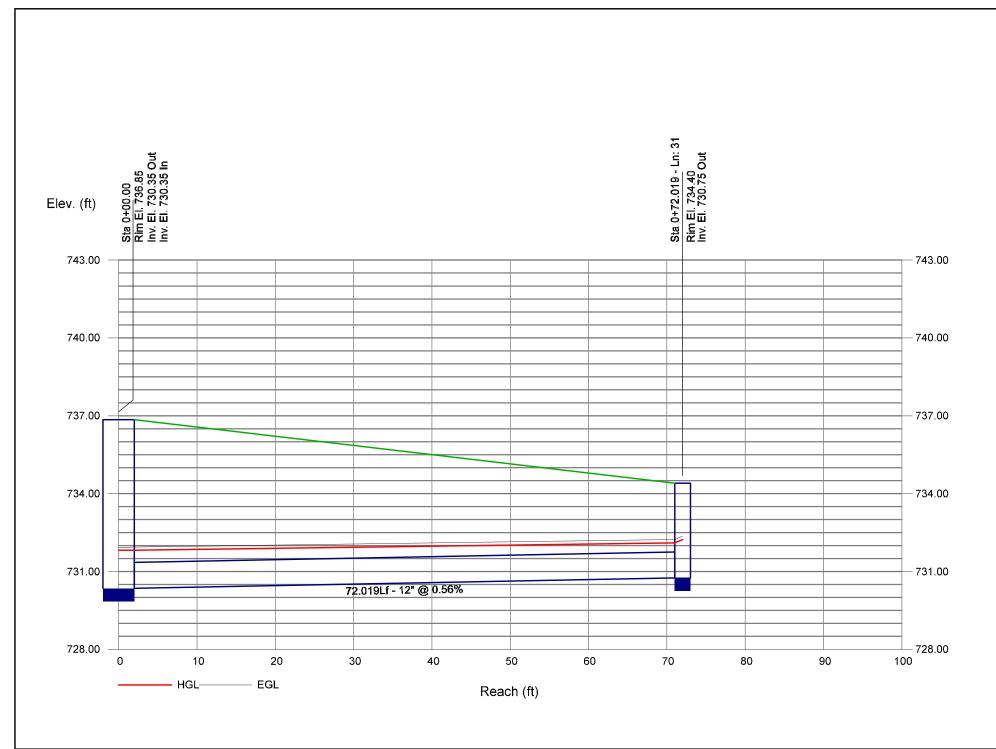


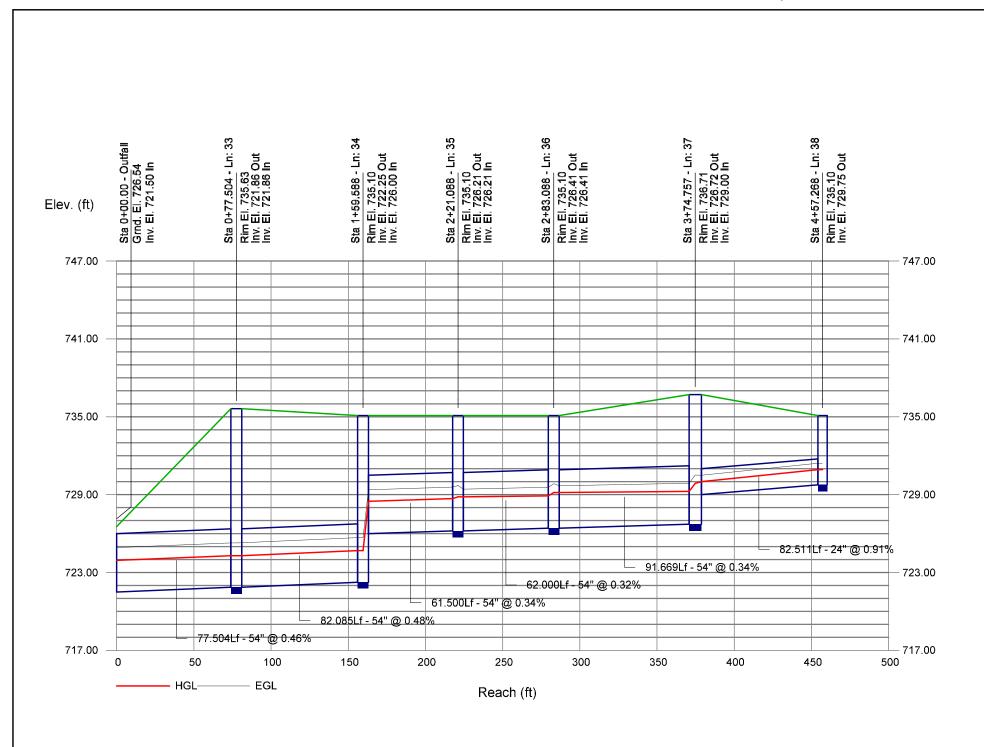


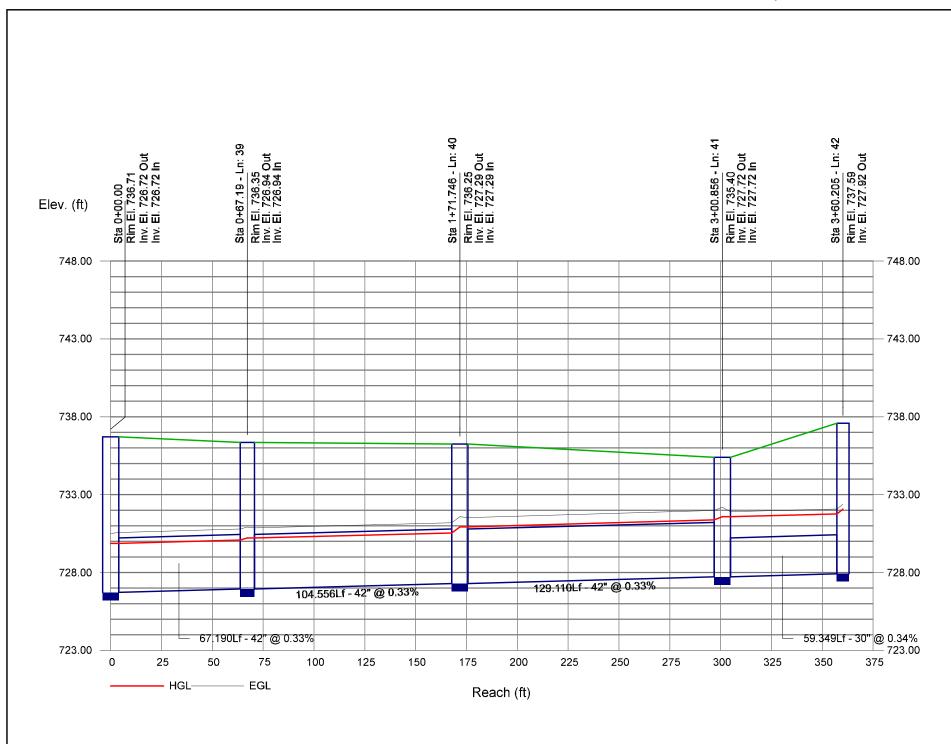


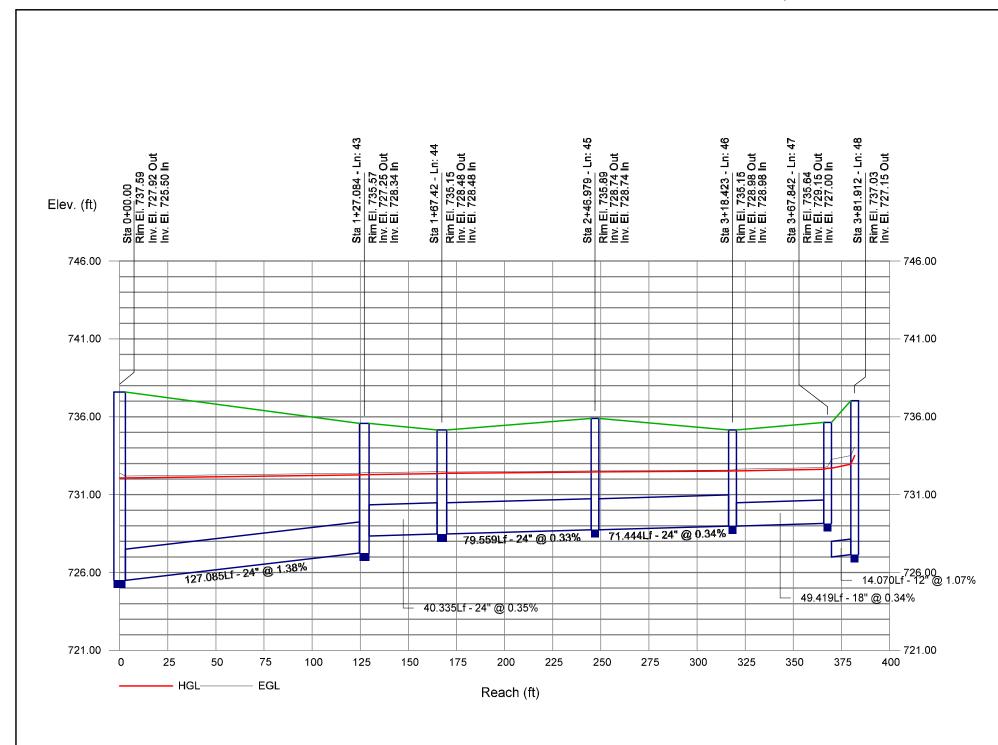




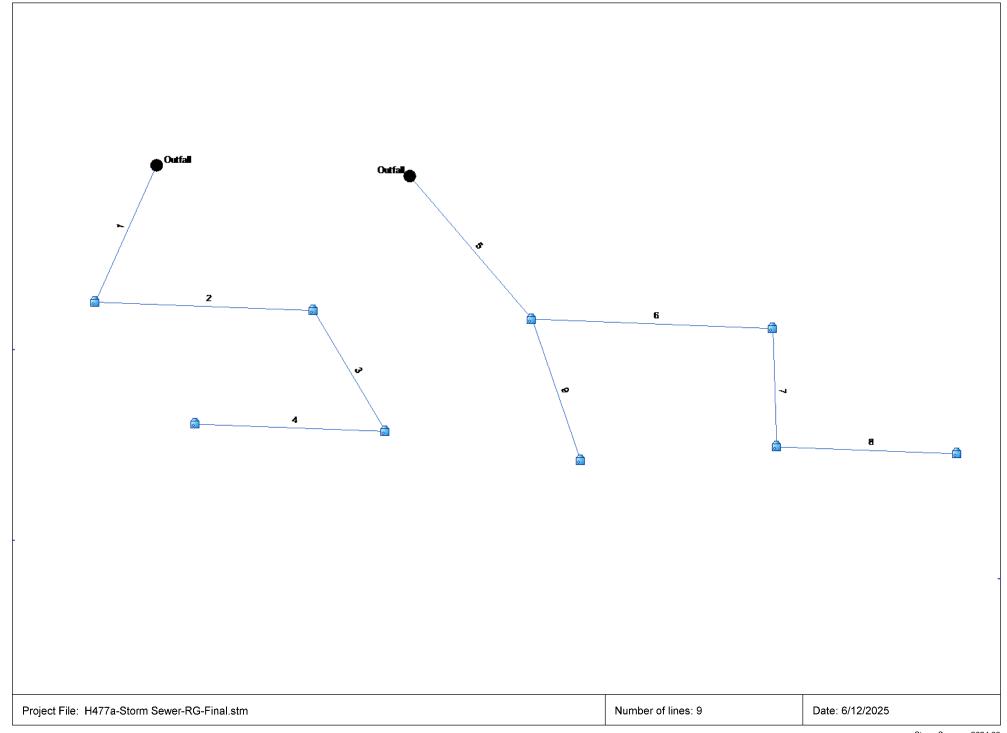








### Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



### **Storm Sewer Tabulation**

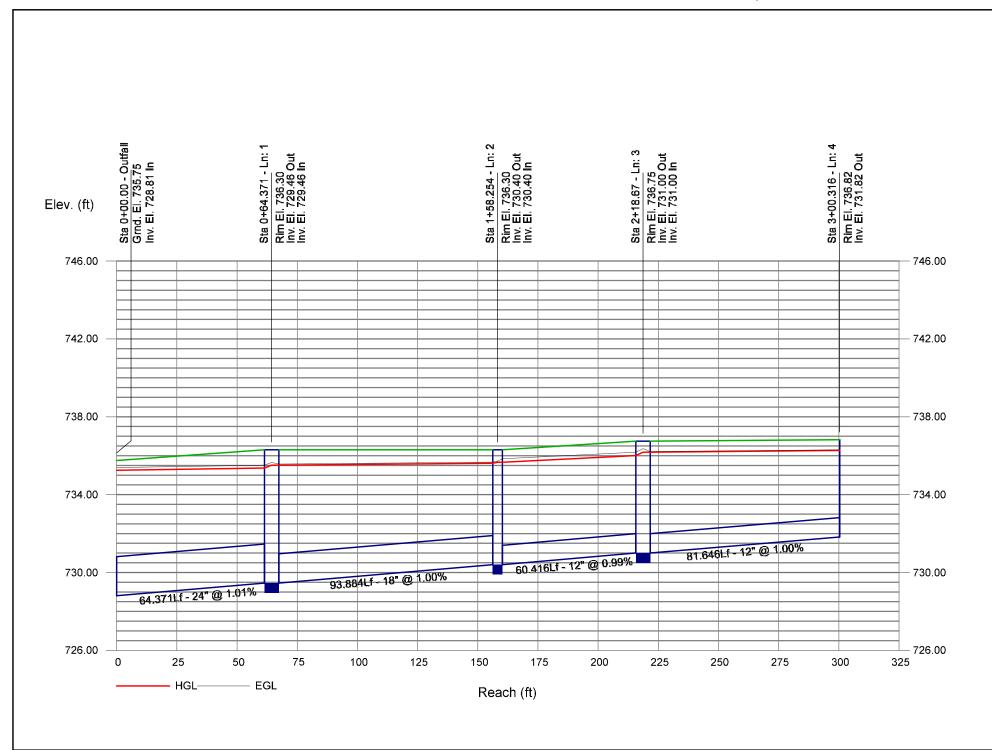
Statio	n	Len	Drng A	rea	Rnoff	Area x	C	Тс		Rain	Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
Line			Incr	Total	coeff	Incr	Total	Inlet	Syst	-(I) -	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1		64.371		1.31	0.71	0.62	0.95	10.0	12.0	10.1	9.59	22.73	3.05	24	1.01	728.81	729.46	735.25	735.37	735.75	736.30	CB-211
2		93.884		0.44	0.78	0.08	0.33	10.0	11.2	10.4	3.45	10.51	1.95	18	1.00	729.46	730.40	735.51	735.61	736.30	736.30	CB-212
3		60.416		0.34	0.75	0.15	0.26	10.0	10.9	10.5	2.67	3.55	3.40	12	0.99	730.40	731.00	735.66	736.00	736.30	736.75	CB-215
4		81.646		0.14	0.75	0.11	0.11	10.0	10.0	10.8	1.14	3.57	1.45	12	1.00	731.00	731.82	736.18	736.27	736.75	0.00	INL-216
5	End	80.820	0.10	0.88	0.78	0.08	0.69	10.0	11.6	10.2	7.02	22.64	2.23	24	1.00	728.65	729.46	735.25	735.33	735.75	736.30	CB-210
6		103.567		0.52	0.95	0.11	0.41	10.0	11.0	10.5	4.33	10.47	2.45	18	0.99	729.46	730.49	735.39	735.56	736.30	736.25	Pipe 127
7	6	50.793	0.20	0.40	0.75	0.15	0.30	10.0	10.6	10.6	3.18	6.47	2.59	15	1.00	730.49	731.00	735.66	735.78	736.25	736.75	CB-213
8	7	77.750	0.20	0.20	0.75	0.15	0.15	10.0	10.0	10.8	1.63	3.50	2.07	12	0.96	731.00	731.75	735.89	736.05	736.75	736.75	INL-212
9	5	64.286	0.26	0.26	0.75	0.20	0.20	10.0	10.0	10.8	2.11	6.01	2.69	12	2.85	730.92	732.75	735.39	735.61	736.30	736.75	INL-214

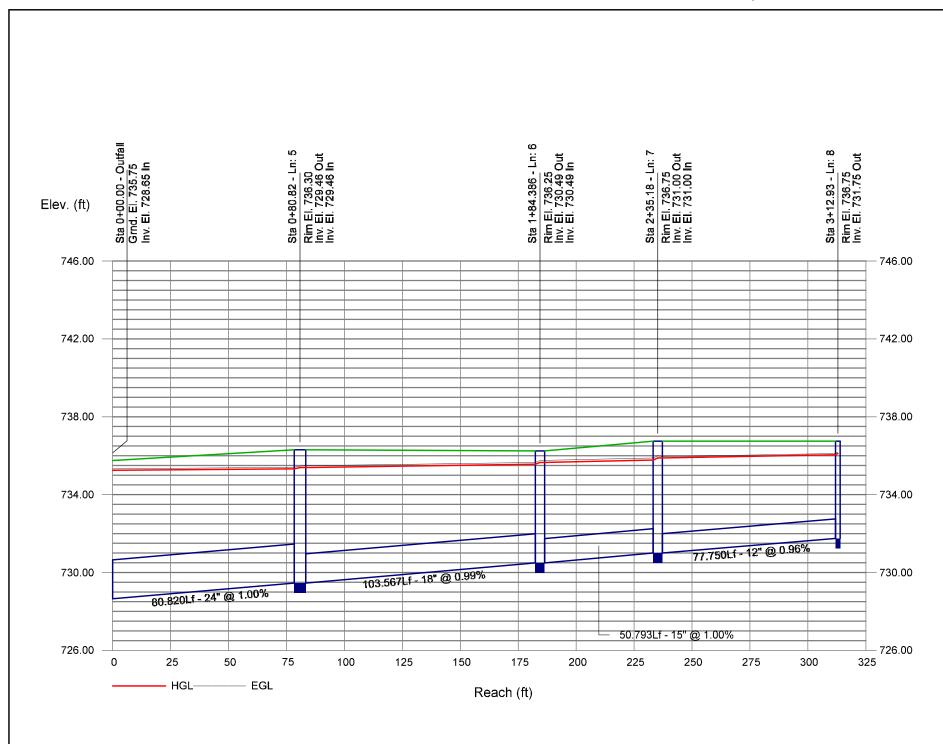
Number of lines: 9

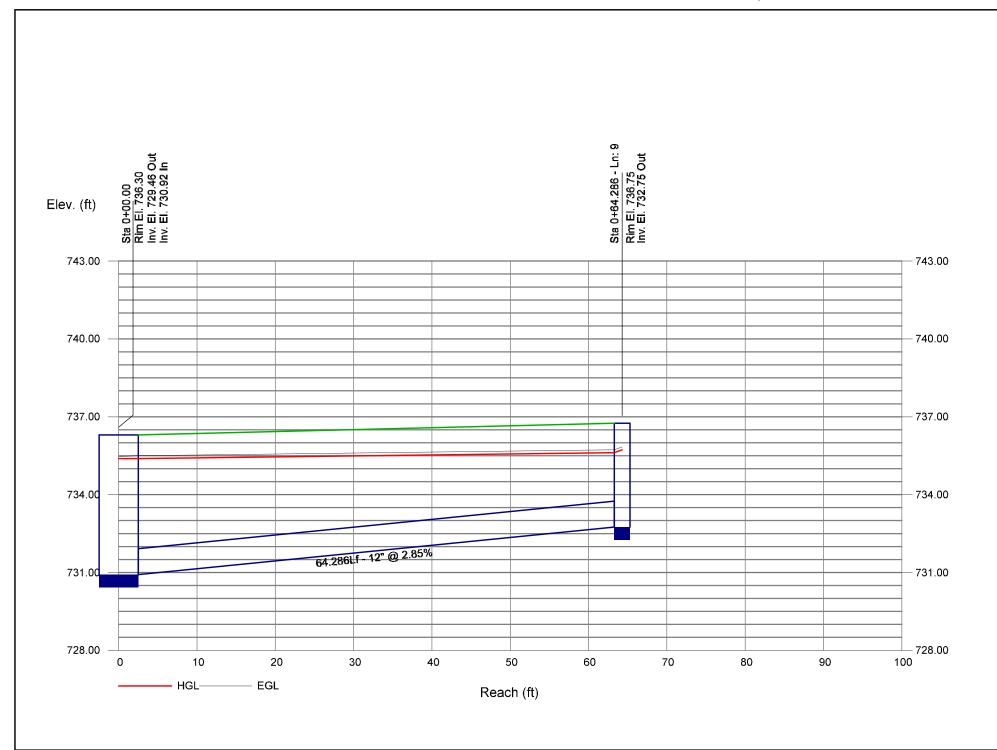
NOTES:Intensity = 157.45 / (Inlet time + 12.90) ^ 0.85; Return period =Yrs. 100; c = cir e = ellip b = box

Project File: H477a-Storm Sewer-RG-Final.stm

Run Date: 6/12/2025









1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

### **EMERGENCY WEIR SUMMARY**

Project: 1960 W Lucent		By:	RJC Da	ate: 5/20	0/2025
Location: Naperville, Illinoi	S	Revised:	JMS Da	ate: 6/3	/3/2025
Project #: H477a		_			

Weir ID	UPSTREAM WEIR	SUB-BASIN DRAINAGE AREA (AC)	SUB-BASIN RUNOFF COEFFICIENT	DRAINAGE	CUMMULATIVE RUNOFF COEFFICIENT	TIME OF CONCENTRATION (MIN)	INTENSITY (INCH/HOUR)	RUNOFF (CFS)
EMERGENCY WEIR A-A	-	5.38	0.95	5.38	0.95	10.00	10.80	55.20
EMERGENCY WEIR B-B	-	3.31	0.95	3.31	0.95	10.00	10.80	33.96

#### Notes:

- 1) Intensity Obtained from Bulletin 75 Northeast Section (100-year Interval)
- 2) Runoff utilizes the rational method. Q = C\*I\*A

  3) Storm sewer is designed to convey the 100-year storm event, weirs are provided for emergency overflow situations only.



## EMERGENCY WEIR CALCULATIONS WEIR A-A

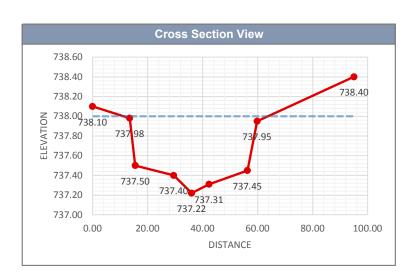
 Project:
 1960 W Lucent
 By: RJC
 Date:
 5/20/2025

 Location:
 Naperville, Illinois
 Revised:
 JMS
 Date:
 6/3/2025

Project #: H477a

### Elevation Data:

Elevation Data:					
Elevation (ft)	Distance (ft)				
738.10	0.00				
737.98	13.50				
737.50	15.50				
737.40	29.50				
737.22	36.00				
737.31	42.30				
737.45	56.3				
737.95	59.8				
738.40	95.0				



#### **Weir Capacity**

Max Flow Depth	0.78 ft
Water Surface Elevation	738 ft
Cross Sectional Area	27.19 sq-ft
Weir Coefficient	2.60
Weir Capacity	62.43 cfs

### **Proposed Runoff**

Tributary Area	5.38 Acre
Runoff Coeficient	0.95
Time of Concentration	10.0 min
Intensity	10.80 inch/hour
Runoff (Rational Method)	55.20 cfs
Minimum 1 cfs/acre	5.38 cfs
Design Runoff	55.20 cfs

### Notes:

- 1) Intensity Obtained from Bulletin 75 Northeast Section (100-year Interval)
- 2) Runoff utilizes the rational method.  $Q = C^*I^*A$
- 3) Weir capacity equation:  $Q = C^*A^*H^*(1/2)$



## EMERGENCY WEIR CALCULATIONS WEIR B-B

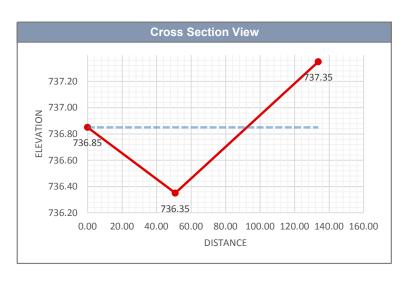
 Project:
 1960 W Lucent
 By: RJC
 Date:
 5/20/2025

 Location:
 Naperville, Illinois
 Revised:
 JMS
 Date:
 6/3/2025

 Project #:
 H477a

### Elevation Data:

Elevation Data:					
Elevation (ft)	Distance (ft)				
736.85	0.00				
736.35	50.80				
737.35	133.70				



### **Weir Capacity**

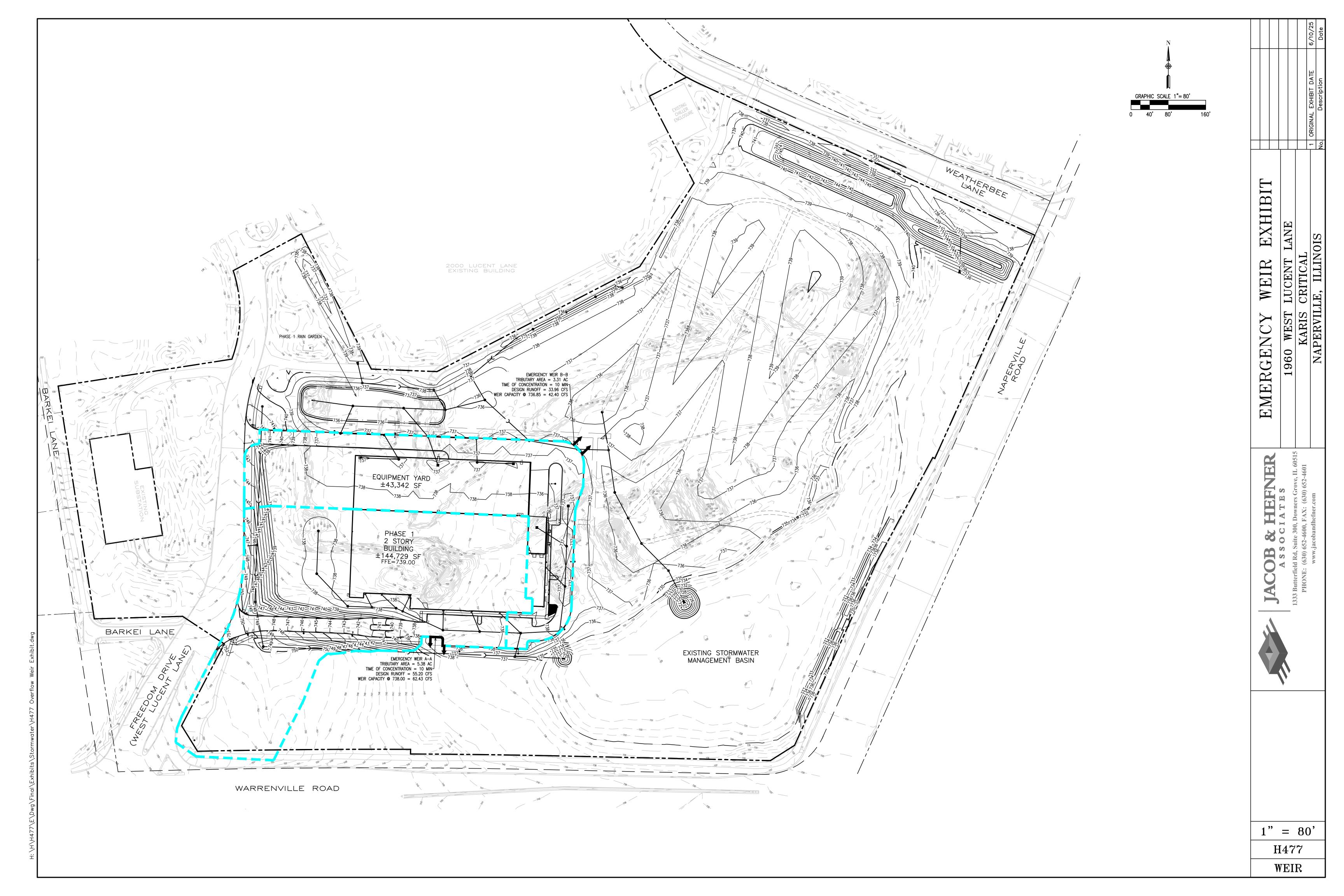
Max Flow Depth	0.50 ft
Water Surface Elevation	736.85 ft
Cross Sectional Area	23.06 sq-ft
Weir Coefficient	2.60
Weir Capacity	42.40 cfs

### **Proposed Runoff**

Tributary Area	3.31 Acre
Runoff Coeficient	0.95
Time of Concentration	10.0 min
Intensity	10.80 inch/hour
Runoff (Rational Method)	33.96 cfs
Minimum 1 cfs/acre	3.31 cfs
Design Runoff	33.96 cfs

### Notes:

- 1) Intensity Obtained from Bulletin 75 Northeast Section (100-year Interval)
- 2) Runoff utilizes the rational method.  $Q = C^*I^*A$
- 3) Weir capacity equation:  $Q = C^*A^*H^*(1/2)$

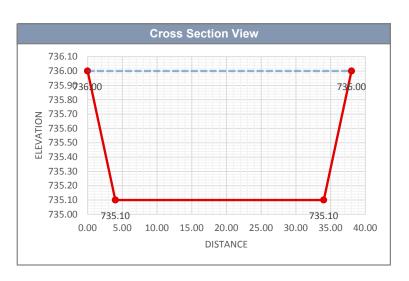




### **EMERGENCY WEIR CALCULATIONS**

Project:	1960 W Lucent	By: <i>JMS</i>	Date:	6/6/2025
Location:	Naperville, Illinois	Revised:	Date:	
Project #	H477a	<u></u>		

Elevation Data:					
Elevation (ft)	Distance (ft)				
736.00	0.00				
735.10	4.00				
735.10	34.00				
736.00	38.00				
·					



### **Weir Capacity**

Max Flow Depth	0.90 ft
Water Surface Elevation	736 ft
Cross Sectional Area	30.60 sq-ft
Weir Coefficient	2.60
Weir Capacity	75.48 cfs

### **Proposed Runoff**

Tributary Area	63.00 Acres
1 cfs/acre	63.00 cfs
Design Runoff	63.00 cfs

### Notes:

1) Intensity Obtained from Bulletin 75 - Northeast Section (100-year Interval)

2) Runoff utilizes the rational method. Q = C\* 160550

3) Weir capacity equation:  $Q = C^*A^*H^*(1/2)$ 39206 0.95 37245.7

> 121344 0.45 54604.8

> > 91850.5

1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

## STAGE STORAGE CALCULATIONS EXISTING DETENTION BASIN

Project:	1960 West Lucent Lane	Ву:	JMS	Date:	6/6/2025
Location:	Naperville, IL	Checked:		Date:	
Job #:	H477	_		_	

As-Built Detention Basin						
Elevation	Aron (of)	Volume	Storage	1		
(ft)	Area (sf)	(ac-ft)	(ac-ft)			
729.00	-	0.00	0.00	NWL		
730.00	-	0.90	0.90			
731.00	-	2.60	3.50			
732.00	-	4.10	7.60			
733.00	-	4.80	12.40			
734.00	-	5.40	17.80			
734.75	-	4.40	22.20			
735.00	-	1.50	23.70	HWL		

- Refer to as-built stage storage table provided on historical Lucent Technoligies R & D Facility record drawings.

Existing Detention Basin						
Elevation	Area (sf)	Volume	Storage			
(ft)	Alea (SI)	(ac-ft)	(ac-ft)			
729.00	4,649	0.00	0.00	NWL		
730.00	84,711	0.84	0.84			
731.00	161,046	2.77	3.61			
732.00	193,854	4.07	7.68			
733.00	217,358	4.72	12.40			
734.00	236,605	5.21	17.60			
735.00	259,511	5.69	23.30			
735.10	263,742	0.60	23.90	HWL		

<sup>-</sup> Existing detention basin stage storage includes minor pond adjustments included as part of the Phase 1 Construction Plans.

# **TAB 3**

FLOODPLAIN



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### **TAB 3: FLOODPLAIN**

Pursuant to FEMA Firm Map Number 17043C0161J, effective August 1, 2019, there is Zone X floodplain (0.2% annual chance flood hazard) located within the detention pond at the southeast corner of the site, and also at the northwest corner, north of the substation. Zone X floodplain is not regulated in DuPage County.

# **TAB 4**

WETLAND/WETLAND BUFFER



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### TAB 4: WETLAND

A wetland delineation of the subject property was completed by V3 Companies in November of 2022 and determined that no jurisdictional wetlands were identified on the property. While DuPage County Wetlands and National Wetlands Inventory maps show wetland area on the southern portion of property, this area was considered exempt due to it being a man made excavated basin. Gary R. Weber Associates (GRWA) have recently reviewed existing site conditions and have confirmed no change in determination and have received concurrence from DuPage County. A cover letter from GRWA and the previous Wetland Determination Report by V3 Companies have been included in this tab for reference.

April 7, 2025

Kristen Bruns, P.E.
Project Manager
Jacob & Hefner Associates, Inc.
1333 Butterfield Road, Suite 300
Downers Grove, IL 60515

**SUBJECT:** Wetland Exemption Update: 1960 Lucent Lane

Naperville, DuPage County, IL

Dear Ms. Bruns,

On March 25, 2025, we conducted a site visit to review the findings of wetland report issued by V3 Companies November 29, 2022. This report reviewed a stormater mananagment basin as part of the overall delineation. Based on a verification with DuPage County on 6/13/2019, this basin was determined to be an exempt feature as described by the DuPage County Stormater Ordinance. This exemption was documented under WBV2019-0018.

No changes to the boundaries or character of the basin were observed during the recent site visit. It is our opinion that the exemption supported in the V3 report is still valid for site development permits. Coordination with DuPage County may be required.

Please feel free to contact me with any comments or questions. I can be reached by phone (630-668-7197) or email (<a href="mailto:eraimondi@grwainc.com">eraimondi@grwainc.com</a>).

Sincerely,

Ellen Raimondi, PWS Senior Ecologist, GRWA

# WETLAND DELINEATION AND ASSESSMENT REPORT



#### **PROJECT SITE:**

# 1960 Lucent Lane, 2000 Lucent Lane and Vacant Property to the Northwest

Naperville, DuPage County, Illinois

#### PREPARED FOR:

Lincoln Property Company Commercial, Inc. 120 North LaSalle Street Suite 2900 Chicago, Illinois 60602

### **PREPARED BY:**

V3 Companies, Ltd. 7325 Janes Avenue Woodridge, Illinois 60517 630-724-9200

July 1, 2019

We hereby certify that this Wetland Delineation and Assessment Report has been prepared by V3 Companies for use by Lincoln Property Company Commercial, Inc., their affiliates, lenders, and assignees.

Project Staff:

Alicia Metzger, CPSC, PWS Soil Scientist

Hualletzer

Daniel Jablonski Wetland Scientist

Approved by:

Scott J. Brejcha, PWS

Wetland Consulting Group Leader

**Natural Resources Division** 

Thomas E. Slowinski, PWS

Technical Director, Wetlands and Ecology

Theres E. Slowinshi

**Natural Resources Division** 

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### **EXECUTIVE SUMMARY**

The 176 – acre subject property was investigated by V3 Companies (V3) on April 22, 2019 to determine the presence, extent and quality of any wetlands or other areas under U.S. Army Corps of Engineers (USACE) and/or DuPage County jurisdiction.

### Delineation Summary.

Thirteen areas were identified on the subject property, including ten emergent wetlands (Areas 1-6 and 9, 10, 11 and 13), two constructed stormwater management basins (Areas 7 and 8) and one man-made roadside ditch (Area 12), and are described in detail below. A summary of the identified areas is provided in **Table 1** and a summary of the data points is provided in **Table 2**. Two off-site regulatory wetlands were identified north and west of the subject property, per the DuPage County Ordinance, and are located within Herrick Lake and Danada Forest Preserves.

- Area 1 (0.14 acres) is an emergent wetland located in the northwest corner of the subject property.
- Area 2 (0.08 acres) is an emergent wetland located in the northwest corner of the subject property.
- Area 3 (1.50 acres on-site; 31.15 acres off-site) is an emergent wetland along the northern corner of the subject property that is associated with Danada Forest Preserve. Area 3 is listed as a critical wetland in DuPage County and continues off-site to the east.
- Area 4 (0.22 acres; 0.35 acres off-site) is an emergent wetland located in the center of the subject property along the north side a constructed berm.
- Area 5 (0.05 acres) is an emergent wetland located in the eastern portion of the subject property in a landscaped area. Area 5 appears to be hydrologically connected to a stormwater management basin located off-site to the north.
- Area 6 (0.13 acres) is drainageway and emergent wetland located in the southwestern portion of the subject property. Area 6 appears on the subject property between 1972 and 1987, as seen on historical aerial imagery (Appendix VI), after the construction of the ComEd substation.
- Area 7 (7.30 acres) is a constructed stormwater management basin located in the southeastern corner of the subject property. Area 7 was under construction in 1972, as seen on historical aerial imagery (**Appendix VI**) and contains an in ground portion of Rott Creek, as seen on the hydrologic atlas (Figure 4).
- Area 8 (15.73 acres) is a constructed stormwater management basin, known as Bell Pond, located in the western portion of the subject property. Area 8 was under construction in 1972, as seen on historical aerial imagery (**Appendix VI**) and contains an in ground portion of Rott Creek, as seen on the hydrologic atlas (Figure 4).
- > Area 9 (0.05 acres) is an area in the turf grass that satisfies the three wetland criteria.
- > Area 10 (0.06 acres) is an area in the turf grass that satisfies the three wetland criteria.
- Area 11 (0.01 acres) is an area in the turf grass that satisfies the three wetland criteria.
- Area 12 (0.05 acres) is an emergent wetland located mostly off-site in the northwest corner of the subject property along a berm. Area 12 continues off-site to the north into Danada Forest Preserve.

Area 13 (0.27 acres) is a man-made roadside ditch as seen on the engineering plans in Appendix VI.

In V3's professional opinion, Areas 1, 2, 3, 4, 5, 6, 9, 10, 11 and 12 are subject to USACE and DuPage County jurisdiction due to the their hydrologic connection and proximity to a Waters of the U.S./DuPage. Areas 7, 8 and 13 are exempt from jurisdiction because they are constructed stormwater management features.

The delineated boundaries of Areas 1-13 were field verified by Mr. Nick Assell and Ms. Jenna Fahey of DuPage County Stormwater and Mr. Scott Brejcha, Ms. Alicia Metzger and Mr. Dan Jablonski of V3 Companies on June 13, 2019.

#### 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 (Waters). Jurisdictional areas include rivers, streams, tributaries, lakes, natural ponds and wetlands adjacent (bordering, contiguous or neighboring) to these areas.<sup>[1]</sup> A tributary is characterized by the presence of physical indicators of flow (bed and bank, ordinary high water mark) that contribute flow directly or through another Waters to a traditional navigable or interstate water. Ditches that meet certain criteria can be considered a tributary. Swales and erosional features are generally not considered to be tributaries or Waters.

Wetlands not considered adjacent waters, but located within 4,000 feet of the high tide line or ordinary water mark of traditional navigable waters, interstate waters, or a jurisdictional tributary, can be jurisdictional if they have a significant nexus to a traditional navigable or interstate waters (floodplain Waters/wetlands). A significant nexus determination will be based on hydrologic and ecological factors.

Wetlands not considered adjacent to jurisdictional Waters are considered isolated wetlands and are not regulated under the Clean Water Act.

If less than 0.10 acre of impact to USACE jurisdictional wetlands are proposed, the project would likely qualify for a Regional Permit from the USACE without wetland mitigation. If wetland impacts will consist of between 0.10 acre and 1.0 acre of wetland, a Regional Permit would still be possible, but compensatory mitigation will be required at a minimum ratio of 1.5:1. Mitigation at a higher ratio (typically 3:1 or greater) would be required for impacts to High Quality Aquatic Resources (HQAR). Wetland impacts greater than 1.0 acre will require an Individual Permit, with a public comment period and additional regulatory scrutiny. Required buffer widths under the Regional Permit Program are shown in Table 1. If a permit from the USACE is not required, then the USACE buffer requirements are not applicable.

Pursuant to the 2013 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. All delineated wetlands are to be classified as critical or regulatory wetlands according to the criteria defined in Section 15-85 of the Ordinance. A vegetated buffer 50 feet wide is required around all regulatory wetlands and a vegetated buffer 100 feet wide is

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<sup>[1]</sup> Obama 2015 Clean Water Rule, as of August 16, 2018

required around all critical wetlands, unless mitigation for buffer functions is provided. Information concerning applicable regulatory requirements is provided in **Appendix III**.

Table 1. Wetland 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	0.14	N/A	2.67	10.33	Non-HQAR	Yes	50'
2	0.08	N/A	2.40	5.37	Non-HQAR	Yes	50'
3	1.50	31.15	2.83	9.81	HQAR	Yes	100′
4	0.22	0.35	2.18	7.24	Non-HQAR	Yes	50'
5	0.05	N/A	2.71	7.18	Non-HQAR	Yes	50'
6	0.13	N/A	2.60	10.07	Non-HQAR	Yes	50'
9	0.05	N/A	1.83	4.49	Non-HQAR	Yes	50'
10	0.06	N/A	1.83	4.49	Non-HQAR	Yes	50′
11	0.01	N/A	1.86	4.91	Non-HQAR	Yes	50'
12	0.05	N/A	2.71	7.18	Non-HQAR	Yes	50'
Total	2.56	31.50					

<sup>\*</sup> Based on the Floristic Quality Assessment (FQA) methodology in Plants of the Chicago Region (Swink and Wilhelm, 1994).

<sup>\*\*</sup> 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); Non-HQAR= Non- High Quality Aquatic Resource (NMC ≤ 3.5 and FQI ≤ 20, USACE jurisdiction); HQAR= High Quality Aquatic Resource (NMC ≥ 3.5 or FQI ≥ 20, USACE jurisdiction); WOUS= Waters of the United States (USACE jurisdiction)

Table 2. Data Point Summary Table

Area	Data Point	Hydrophytic Vegetation?	Hydric Soils?	Wetland Hydrology?	Wetland (Y/N)
1	X03	Υ	Υ	Υ	Υ
2	X05	Υ	Υ	Υ	Υ
3	X07	Υ	Υ	Υ	Υ
4	X11	Υ	Υ	Υ	Υ
5	X13	Υ	Υ	Υ	Υ
6	X15	Υ	Υ	Υ	Υ
7	X14	N	N	Υ	N
8	X17	Υ	Υ	Υ	Υ
9	X08	Υ	Υ	Υ	Υ
10	X09	Υ	Υ	Υ	Υ
11	X18	Υ	Υ	Υ	Υ
12	X19	Υ	Υ	Υ	Υ
13	X16	Υ	Υ	Υ	Υ
14	X01	N	Υ	N	N
15	X02	Υ	N	N	N
16	X04	N	N	N	N
17	X06	Υ	N	N	N
18	X10	Υ	N	Υ	N
19	X12	Υ	N	N	N

### INTRODUCTION AND BACKGROUND

The 176 – acre subject property was investigated by V3 Companies (V3) on April 22, 2019 to determine the presence, extent and quality of any wetlands or other areas 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" and numbered consecutively from beginning to end. This report summarizes the results of the field investigation and provides technical documentation for all investigated areas. The delineated boundaries of Areas 1-13 were field verified by Mr. Nick Assell and Ms. Jenna Fahey of DuPage County Stormwater and Mr. Scott Brejcha, Ms. Alicia Metzger and Mr. Dan Jablonski of V3 Companies on June 13, 2019.

The subject property is located north of Warrenville Road, south of Butterfield Road, east of Herrick Lake Forest Preserve and west of Naperville Road in Naperville, DuPage County, Illinois (Section 5, T38N, R10E; 41.819002°N, -88.124043°W; Wheaton and Naperville quadrangle, Figure 1).

Six wetlands are identified on the subject property on the National Wetlands Inventory (NWI) Map (Figure 2). The wetlands include three palustrine, emergent, persistent, temporarily flooded (PEM1A) wetland; one palustrine, emergent, persistent, semipermanently flooded (PEM1F) wetland; one palustrine, emergent, persistent, temporariliy flooded (PEM1Ah) wetland and one palustrine, unconsolidated bottom, intermittently exposed, excavated (PUBGx) wetland.

Five regulatory wetlands and one critical wetland are identified on the subject property on the DuPage County Wetlands Map (Figure 3).

The USGS Hydrologic Atlas (Figure 4) shows the presence of a portion of Rott Creek in the southeastern portion of the subject property. The stream is labeled as "Stream in underground conduit" and on aerial imagery appears to be hydrologically connected to Area 7 and Area 8 via underground pipes.

The 12-Digit Hydrologic Unit Code (HUC) Map (Figure 5) shows that the subject property lies within the East Branch DuPage River sub watershed (Hydrologic Unit 071200040804), which is associated with the larger Des Plaines River watershed.

The FEMA Flood Insurance Rate Map (FIRM) (Figure 6) identifies flood zone A in the northeastern corner associated with the off-site ciritical wetland and flood zone X in the southeast corner near Area 7.

The DuPage County Regulatory Flood Map (RFM) (Figure 7) identifies flood zone A and X throughout the southern portion of the subject property associated with Rott Creek, Bell Pond and EBRC #5.

Eleven soil series are mapped on the subject property on the Soil Survey of DuPage County, Illinois (2015) Map (Figure 8) and include:

Soil Map Unit	Soil Name	Hydric?
69A	Milford silty clay loam	Yes
146A	Elliott silt loam	No
189A	Martinton silt loam	No
232A	Ashkum silty clay loam	Yes

Soil Map Unit	Soil Name	Hydric?
298A	Beecher silt loam	No
330A	Peotone silty clay loam	Yes
530B/530C2	Ozaukee silt loam	No
531B	Markham silt loam	No
697A	Wauconda silt loam	No
805B	Orthents, clayey	No
1903A	Muskego and Houghton mucks	Yes

Figure 9, a DuPage County Aerial Image (2017), shows the location of all data points and the locations of the delineated 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. Data forms for wetlands identified at the subject property are provided in **Appendix I**. The vegetation data calculated on the data forms reflects the changes made to the National Wetland Plant List as of May 1, 2016. Representative photographs of delineated wetlands 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 area identified, focusing on the plant communities within each identified wetland 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: 2014 Update of Wetland Ratings* (Lichvar *et. al., 2014*). 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 subject property:

- Herrick Lake Forest Preserve INAI Site
- Black-Billed Cuckoo (Coccyzus erythropthalmus)

The IDNR confirmed that adverse effects to protected resources are unlikely and have terminated consultation. Refer to **Appendix V** for further information.

The USFWS Section 7 consultation did not find species or critical habitat present on the subject property. A copy of the USFWS Section 7 consultation is included in **Appendix V**.

### RESULTS OF THE FIELD INVESTIGATION

### JURISDICTIONAL AREAS

### Area 1 - Emergent Wetland

Data Point X03

Area 1 (0.14 acres) is an emergent wetland located in the northwest corner of the subject property.

### Summary:

• Emergent Wetland

• Jurisdiction: USACE and DuPage County

Quality: Non-HQAR/RegulatoryVegetated Buffer Required: 50'

*Vegetation:* The dominant plant species at Data Point X03 are green ash (*Fraxinus pennsylvanica*) and reed canary grass (*Phalaris arundinacea*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 1 are provided below.

Conservatism-Based	Metrics	Additional Metrics		
Mean C (native species)	2.67	Species Richness (all)	28	
Mean C (all species)	1.43	Species Richness (native)	15	
Mean C (native trees)	3.50	% Non-native	0.46	
Mean C (native shrubs)	0.00	Wet Indicator (all)	-0.29	
Mean C (native herbaceous)	2.73	Wet Indicator (native)	-1.00	
FQAI (native species)	10.33	% hydrophyte (Midwest)	0.75	
FQAI (all species)	7.56	% native perennial	0.46	
Adjusted FQAI	19.52	% native annual	0.07	
% C value 0	0.46	% annual	0.11	
% C Value 1-3	0.43	% perennial	0.79	
% C value 4-6	0.07			
% C value 7-10	0.04			

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
apocan	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0	Forb	Perennial
arcmin	Arctium minus	ARCTIUM MINUS	Lesser Burrdock	0	FACU	FACU	1	Forb	Biennial
ascinc	Asclepias incarnata	Asclepias incarnata	Swamp Milkweed	3	OBL	OBL	-2	Forb	Perennial
barvul	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow- Rocket	0	FAC	FAC	0	Forb	Biennial
bidfro	Bidens frondosa	Bidens frondosa	Devil's-Pitchfork	1	FACW	FACW	-1	Forb	Annual
cxcris	Carex cristatella	Carex cristatella	Crested Sedge	4	FACW	FACW	-1	Sedge	Perennial
cxmole	Carex molesta	Carex molesta	Troublesome Sedge	2	FAC	FAC	0	Sedge	Perennial
cxtrib	Carex tribuloides	Carex tribuloides	Blunt Broom Sedge	7	OBL	FACW	-2	Sedge	Perennial
cxvulp	Carex vulpinoidea	Carex vulpinoidea	Common Fox Sedge	2	FACW	OBL	-1	Sedge	Perennial

cirarv	Cirsium arvense	CIRSIUM ARVENSE	Canadian Thistle	0	FACU	FACU	1	Forb	Perennial
daucar	Daucus carota	DAUCUS CAROTA	Queen Anne's Lace	0	UPL	UPL	2	Forb	Biennial
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major	Common Spike- Rush	1	OBL	OBL	-2	Sedge	Perennial
elyrep	Elymus repens	AGROPYRON REPENS; Elytrigia repens	Creeping Wild Rye	0	FACU	FACU	1	Grass	Perennial
frapen	Fraxinus pennsylvanica	Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4	FACW	FACW	-1	Tree	Perennial
geulac	Geum laciniatum	Geum laciniatum	Rough Avens	3	FACW	FACW	-1	Forb	Perennial
lotcor	Lotus corniculatus	LOTUS CORNICULATUS	Garden Bird's- Foot-Trefoil	0	FACU	FACU	1	Forb	Perennial
perhyr	Persicaria hydropiper	Polygonum hydropiper	Mild Water- Pepper	2	OBL	OBL	-2	Forb	Annual
polper	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	FAC	-1	Forb	Annual
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0	FAC	FACU	0	Grass	Perennial
pyrcal	Pyrus calleryana	PYRUS CALLERYANA	Ornamental Pear	0	UPL	UPL	2	Tree	Perennial
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	FAC	0	Shrub	Perennial
rosmul	Rosa multiflora	ROSA MULTIFLORA	Rambler Rose	0	FACU	FACU	1	Shrub	Perennial
rumcri	Rumex crispus	RUMEX CRISPUS	Curly Dock	0	FAC	FAC	0	Forb	Perennial
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled American-Aster	3	FAC	FACW	0	Forb	Perennial
toxrad	Toxicodendron radicans	Rhus radicans	Eastern Poison- Ivy	2	FAC	FAC	0	Vine	Perennial
ulmame	Ulmus americana	Ulmus americana	American Elm	3	FACW	FACW	-1	Tree	Perennial
vitrip	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	FAC	-1	Vine	Perennial

Soils: The soil profile at Data Point X03 consisted of 0-11 inches of black (10YR 2/1) silt loam with 20% brownish yellow (10YR 6/8) redoximorphic concentrations. Below that, to a depth of 15 inches below the surface, the soil profile was dark grayish brown (2.5Y 4/2) silty clay loam with 15% brownish yellow (10YR 6/6) redoximorphic concentrations and 5% gray (10YR 6/1) redoximorphic depletions. This profile exhibits hydric soil indicator A11, Depleted Below Dark Surface, and satisfies the soils criterion.

*Hydrology:* The presence of presence of primary wetland hydrology indicator A2, High Water Table at 4 inches below the surface, satisfies the hydrology criterion.

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

### Area 2 – Emergent Wetland

Data Point X05

Area 2 (0.08 acres) is an emergent wetland located in the northwest corner of the subject property.

### Summary:

• Emergent Wetland

• Jurisdiction: USACE and DuPage County

Quality: Non-HQAR/RegulatoryVegetated Buffer Required: 50'

*Vegetation:* The dominant plant species at Data Point X05 is reed canary grass (*Phalaris arundinacea*). The dominant species is hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 2 are provided below.

Conservatism-Based I	Metrics	Additional Metrics			
Mean C (native species)	2.40	Species Richness (all)	11		
Mean C (all species)	1.09	Species Richness (native)	5		
Mean C (native trees)	0.00	% Non-native	0.55		
Mean C (native shrubs)	4.00	Wet Indicator (all)	-0.18		
Mean C (native herbaceous)	2.00	Wet Indicator (native)	-0.80		
FQAI (native species)	5.37	% hydrophyte (Midwest)	0.82		
FQAI (all species)	3.62	% native perennial	0.45		
Adjusted FQAI	16.18	% native annual	0.00		
% C value 0	0.55	% annual	0.09		
% C Value 1-3	0.36	% perennial	0.82		
% C value 4-6	0.09				
% C value 7-10	0.00				

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species (Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
apocan	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	Forb	Perennial	Native	apocan
diplac	Dipsacus laciniatus	DIPSACUS LACINIATUS	Cut-Leaf Teasel	0	UPL	Forb	Biennial	Adventive	diplac
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major	Common Spike-Rush	1	OBL	Sedge	Perennial	Native	eleery
jundud	Juncus dudleyi	Juncus dudleyi	Dudley's Rush	2	FACW	Forb	Perennial	Native	jundud
polper	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	Forb	Annual	Adventive	polper
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	Grass	Perennial	Adventive	phaaru
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0	FAC	Grass	Perennial	Adventive	poapra
pyrcal	Pyrus calleryana	PYRUS CALLERYANA	Ornamental Pear	0	UPL	Tree	Perennial	Adventive	pyrcal
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	Shrub	Perennial	Adventive	rhacat
samcan	Sambucus nigra ssp. canadensis	Sambucus canadensis	Black Elder	4	FAC	Shrub	Perennial	Native	samcan
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled American- Aster	3	FAC	Forb	Perennial	Native	astsim

Soils: The soil profile at Data Point X05 consisted of 0-4 inches of black (10YR 2/1) silt loam underlain by 6 inches, to a depth of 10 inches below the surface, of dark grayish brown (2.5Y 4/2) silty clay loam with 25% yellowish brown (10YR 5/8) redoximorphic concentrations. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The area was inundated to a depth of 1 inch, so the hydrology criterion is satisfied.

Conclusion: Data Point X05 satisfies all three criteria; therefore Area 2 qualifies as wetland.

### Area 3 – High Quality Emergent Wetland

Data Point X07

Area 3 (1.50 acres on-site; 31.15 acres off-site) is an emergent wetland along the northern corner of the subject property that is associated with Danada Forest Preserve. Area 3 is listed as a critical wetland in DuPage County and continues off-site to the east.

### Summary:

• Emergent Wetland

• Jurisdiction: DuPage County

• Quality: HQAR/Critical

• Vegetated Buffer Required: 100'

Vegetation: The dominant plant species at Data Point X07 are eastern cottonwood (*Populus deltoides*), sandbar willow (*Salix interior*) and panicled aster (*Symphyotrichum lanceolatum*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 3 are provided below.

Conservatism-Based	Metrics	Additiona	al Metrics
Mean C (native species)	2.83	Species Richness (all)	19
Mean C (all species)	1.79	Species Richness (native)	12
Mean C (native trees)	2.25	% Non-native	0.37
Mean C (native shrubs)	2.50	Wet Indicator (all)	-0.53
Mean C (native herbaceous)	3.33	Wet Indicator (native)	-0.92
FQAI (native species)	9.81	% hydrophyte (Midwest)	0.84
FQAI (all species)	7.80	% native perennial	0.63
Adjusted FQAI	22.52	% native annual	0.00
% C value 0	0.42	% annual	0.05
% C Value 1-3	0.37	% perennial	0.95
% C value 4-6	0.16		
% C value 7-10	0.05		

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
acesai	Acer saccharinum	Acer saccharinum	Silver Maple	1	FACW	Tree	Perennial	Native	acesai
apocan	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	Forb	Perennial	Native	apocan
branig	Brassica nigra	BRASSICA NIGRA	Black Mustard	0	UPL	Forb	Annual	Adventive	branig

cxtrib	Carex tribuloides	Carex tribuloides	Blunt Broom Sedge	7	OBL	Sedge	Perennial	Native	cxtrib
corrac	Cornus racemosa	Cornus racemosa	Gray Dogwood	1	FAC	Shrub	Perennial	Native	corrac
geulac	Geum laciniatum	Geum laciniatum	Rough Avens	3	FACW	Forb	Perennial	Native	geulac
glehed	Glechoma hederacea	GLECHOMA HEDERACEA	Groundivy	0	FACU	Forb	Perennial	Adventive	glehed
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	Grass	Perennial	Adventive	phaaru
popdel	Populus deltoides	Populus deltoides	Eastern Cottonwood	0	FAC	Tree	Perennial	Native	popdel
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	Shrub	Perennial	Adventive	rhacat
salfra	Salix fragilis	SALIX FRAGILIS	Crack Willow	0	UPL	Tree	Perennial	Adventive	salfra
salnig	Salix nigra	Salix nigra	Black Willow	5	OBL	Tree	Perennial	Native	salnig
salpeu	Salix X pendulina	0	Hybrid Weeping Willow	0	FACW	Tree	Perennial	Adventive	salpeu
samcan	Sambucus nigra ssp. canadensis	Sambucus canadensis	Black Elder	4	FAC	Shrub	Perennial	Native	samcan
sciflu	Schoenoplectus fluviatilis	Scirpus fluviatilis; Bolboschoenus fluviatilis	River Club- Rush	4	OBL	Sedge	Perennial	Native	sciflu
typang	Typha angustifolia	TYPHA ANGUSTIFOLIA	Narrow-Leaf Cat-Tail	0	OBL	Forb	Perennial	Adventive	typang
ulmame	Ulmus americana	Ulmus americana	American Elm	3	FACW	Tree	Perennial	Native	ulmame
urtgra	Urtica dioica ssp. gracilis	Urtica procera; Urtica gracilis	Tall Nettle	1	FACW	Forb	Perennial	Native	urtgra
viosor	Viola sororia	Viola priceana	Hooded Blue Violet	3	FAC	Forb	Perennial	Native	viosor

Soils: The soil profile at Data Point X07 consisted of 0-4 inches of black (10YR 2/1) silty clay loam underlain by 6 inches, to a depth of 10 inches below the surface, of gray (10YR 5/1) silty clay loam with 20% yellowish brown (10YR 5/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

*Hydrology:* The presence of two secondary wetland hydrology indicators D2, Geomorphic Position, and D5, FAC-neutral Test, satisfies the hydrology criterion.

Conclusion: Data Point X07 satisfies all three criteria; therefore Area 3 qualifies as wetland.

### Area 4 – Emergent Wetland

Data Point X11

Area 4 (0.22 acres; 0.35 acres off-site) is an emergent wetland located in the center of the subject property along the north side a constructed berm.

## Summary:

• Emergent Wetland

Jurisdiction: USACE and DuPage County

Quality: Non-HQAR/Regulatory

• Vegetated Buffer Required: 50'

*Vegetation:* The dominant plant species at Data Point X11 are American elm (*Ulmus americana*) and common buckthorn (*Rhamnus cathartica*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 4 are provided below.

Conservatism-Based N	Metrics	Additiona	al Metrics
Mean C (native species)	2.18	Species Richness (all)	20
Mean C (all species)	1.20	Species Richness (native)	11
Mean C (native trees)	2.00	% Non-native	0.45
Mean C (native shrubs)	1.50	Wet Indicator (all)	0.30
Mean C (native herbaceous)	2.67	Wet Indicator (native)	-0.27
FQAI (native species)	7.24	% hydrophyte (Midwest)	0.55
FQAI (all species)	5.37	% native perennial	0.45
Adjusted FQAI	16.18	% native annual	0.10
% C value 0	0.55	% annual	0.10
% C Value 1-3	0.40	% perennial	0.85
% C value 4-6	0.00		
% C value 7-10	0.05		

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
allcan	Allium canadense	Allium canadense	Meadow Garlic	3	FACU	Forb	Perennial	Native	allcan
ambtri	Ambrosia trifida	Ambrosia trifida	Great Ragweed	0	FAC	Forb	Annual	Native	ambtri
cxtrib	Carex tribuloides	Carex tribuloides	Blunt Broom Sedge	7	OBL	Sedge	Perennial	Native	cxtrib
corrac	Cornus racemosa	Cornus racemosa	Gray Dogwood	1	FAC	Shrub	Perennial	Native	corrac
diplac	Dipsacus laciniatus	DIPSACUS LACINIATUS	Cut-Leaf Teasel	0	UPL	Forb	Biennial	Adventive	diplac
galapa	Galium aparine	Galium spurium	Sticky-Willy	0	FACU	Forb	Annual	Native	galapa
geulac	Geum laciniatum	Geum laciniatum	Rough Avens	3	FACW	Forb	Perennial	Native	geulac
gletri	Gleditsia triacanthos	Gleditsia triacanthos	Honey- Locust	1	FACU	Tree	Perennial	Native	gletri
lontat	Lonicera tatarica	LONICERA TATARICA	Twinsisters	0	FACU	Shrub	Perennial	Adventive	lontat
malpum	Malus pumila	MALUS PUMILA	Apple	0	UPL	Tree	Perennial	Adventive	malpum
moralb	Morus alba	MORUS ALBA VAR. TATARICA	White Mulberry	0	FAC	Tree	Perennial	Adventive	moralb
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	Grass	Perennial	Adventive	phaaru
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	Shrub	Perennial	Adventive	rhacat
rosmul	Rosa multiflora	ROSA MULTIFLORA	Rambler Rose	0	FACU	Shrub	Perennial	Adventive	rosmul
salfra	Salix fragilis	SALIX FRAGILIS	Crack Willow	0	UPL	Tree	Perennial	Adventive	salfra
salint	Salix interior	Salix interior	Sandbar Willow	2	FACW	Shrub	Perennial	Native	salint
scisib	Scilla sibirica	SCILLA SIBIRICA	Squill	0	UPL	Forb	Perennial	Adventive	scisib

astsim	Symphyotrichum	Aster simplex	White	3	FAC	Forb	Perennial	Native	astsim
	lanceolatum		Panicled						
			American-						
			Aster						
ulmame	Ulmus americana	Ulmus americana	American	3	FACW	Tree	Perennial	Native	ulmame
			Elm						
vitrip	Vitis riparia	Vitis riparia var.	River-Bank	1	FACW	Vine	Perennial	Native	vitrip
		syrticola	Grape						

Soils: The soil profile at Data Point X11 consisted of 0-20 inches of black (10YR 2/1) silty clay loam with 10% yellowish brown (10YR 5/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The soil was saturated at the surface which satisfies the hydrology criterion.

Conclusion: Data Point X11 satisfies all three criteria; therefore Area 4 qualifies as wetland.

## Area 5 – Emergent Wetland

Data Point X13

Area 5 (0.05 acres) is an emergent wetland located in the eastern portion of the subject property in a landscaped area. Area 5 appears to be hydrologically connected to a stormwater management basin located off-site to the north.

### Summary:

• Emergent Wetland

• Jurisdiction: USACE and DuPage County

Quality: Non-HQAR/RegulatoryVegetated Buffer Required: 50'

*Vegetation:* The dominant plant species at Data Point X13 are green ash (*Fraxinus pennsylvanica*) and common spikerush (*Eleocharis palustris*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 5 are provided below.

Conservatism-Based I	Metrics	Additiona	al Metrics
Mean C (native species)	2.71	Species Richness (all)	11
Mean C (all species)	1.73	Species Richness (native)	7
Mean C (native trees)	2.00	% Non-native	0.36
Mean C (native shrubs)	1.00	Wet Indicator (all)	-0.45
Mean C (native herbaceous)	3.50	Wet Indicator (native)	-0.86
FQAI (native species)	7.18	% hydrophyte (Midwest)	0.91
FQAI (all species)	5.73	% native perennial	0.64
Adjusted FQAI	21.65	% native annual	0.00
% C value 0	0.45	% annual	0.00
% C Value 1-3	0.36	% perennial	0.91
% C value 4-6	0.09		
% C value 7-10	0.09		

cxtrib	Carex tribuloides	Carex tribuloides	Blunt Broom Sedge	7	OBL	Sedge	Perennial	Native	cxtrib
corrac	Cornus racemosa	Cornus racemosa	Gray Dogwood	1	FAC	Shrub	Perennial	Native	corrac
diplac	Dipsacus laciniatus	DIPSACUS LACINIATUS	Cut-Leaf Teasel	0	UPL	Forb	Biennial	Adventive	diplac
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major	Common Spike-Rush	1	OBL	Sedge	Perennial	Native	eleery
frapen	Fraxinus pennsylvanica	Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4	FACW	Tree	Perennial	Native	frapen
geulac	Geum laciniatum	Geum laciniatum	Rough Avens	3	FACW	Forb	Perennial	Native	geulac
popdel	Populus deltoides	Populus deltoides	Eastern Cottonwood	0	FAC	Tree	Perennial	Native	popdel
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	Shrub	Perennial	Adventive	rhacat
rumcri	Rumex crispus	RUMEX CRISPUS	Curly Dock	0	FAC	Forb	Perennial	Adventive	rumcri
salpeu	Salix X pendulina	0	Hybrid Weeping Willow	0	FACW	Tree	Perennial	Adventive	salpeu
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled American- Aster	3	FAC	Forb	Perennial	Native	astsim

Soils: The soil profile at Data Point X13 consisted of 0-10 inches of black (10YR 2/1) silty clay loam with 5% dark yellowish brown (10YR 4/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The area was inundated to a depth of 1 inch, so the hydrology criterion is satisfied.

Conclusion: Data Point X13 satisfies all three criteria; therefore Area 5 qualifies as wetland.

## Area 6 – Emergent Wetland

Data Point X15

Area 6 (0.13 acres) is drainageway and emergent wetland located in the southwestern portion of the subject property. Area 6 appears on the subject property between 1972 and 1987, as seen on historical aerial imagery (**Appendix VI**), after the construction of the ComEd substation.

#### Summary:

• Emergent Wetland

• Jurisdiction: USACE and DuPage County

Quality: Non-HQAR/RegulatoryVegetated Buffer Required: 50'

Vegetation: The dominant plant species at Data Point X15 are bur oak (Quercus macrocarpa), common buckthorn (Rhamnus cathartica) and panicled aster (Symphyotrichum lanceolatum). 100% of the dominant

species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 6 are provided below.

Conservatism-Based I	Metrics	Additiona	l Metrics
Mean C (native species)	2.60	Species Richness (all)	21
Mean C (all species)	1.86	Species Richness (native)	15
Mean C (native trees)	2.67	% Non-native	0.29
Mean C (native shrubs)	0.50	Wet Indicator (all)	0.24
Mean C (native herbaceous)	3.22	Wet Indicator (native)	0.13
FQAI (native species)	10.07	% hydrophyte (Midwest)	0.62
FQAI (all species)	8.51	% native perennial	0.71
Adjusted FQAI	21.97	% native annual	0.00
% C value 0	0.43	% annual	0.00
% C Value 1-3	0.38	% perennial	0.95
% C value 4-6	0.19		
% C value 7-10	0.00		

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species (Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
cxcris	Carex cristatella	Carex cristatella	Crested Sedge	4	FACW	Sedge	Perennial	Native	cxcris
corrac	Cornus racemosa	Cornus racemosa	Gray Dogwood	1	FAC	Shrub	Perennial	Native	corrac
diplac	Dipsacus laciniatus	DIPSACUS LACINIATUS	Cut-Leaf Teasel	0	UPL	Forb	Biennial	Adventive	diplac
elyvir	Elymus virginicus	Elymus virginicus	Virginia Wild Rye	3	FACW	Grass	Perennial	Native	elyvir
eryalb	Erythronium albidum	Erythronium albidum	Small White Fawn-Lily	5	FACU	Forb	Perennial	Native	eryalb
fravir	Fragaria virginiana	Fragaria virginiana	Virginia Strawberry	0	FACU	Forb	Perennial	Native	fravir
geulac	Geum laciniatum	Geum laciniatum	Rough Avens	3	FACW	Forb	Perennial	Native	geulac
jugnig	Juglans nigra	Juglans nigra	Black Walnut	3	FACU	Tree	Perennial	Native	jugnig
lontat	Lonicera tatarica	LONICERA TATARICA	Twinsisters	0	FACU	Shrub	Perennial	Adventive	lontat
panvir	Panicum virgatum	Panicum virgatum	Wand Panic Grass	3	FAC	Grass	Perennial	Native	panvir
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	Grass	Perennial	Adventive	phaaru
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0	FAC	Grass	Perennial	Adventive	poapra
popdel	Populus deltoides	Populus deltoides	Eastern Cottonwood	0	FAC	Tree	Perennial	Native	popdel
quemac	Quercus macrocarpa	Quercus macrocarpa	Burr Oak	5	FAC	Tree	Perennial	Native	quemac
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	Shrub	Perennial	Adventive	rhacat
rosmul	Rosa multiflora	ROSA MULTIFLORA	Rambler Rose	0	FACU	Shrub	Perennial	Adventive	rosmul
rubocc	Rubus occidentalis	Rubus occidentalis	Black Raspberry	0	UPL	Shrub	Perennial	Native	rubocc
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled	3	FAC	Forb	Perennial	Native	astsim

			American- Aster						
trirec	Trillium recurvatum	Trillium recurvatum	Bloody- Butcher	5	FACU	Forb	Perennial	Native	trirec
viosor	Viola sororia	Viola priceana	Hooded Blue Violet	3	FAC	Forb	Perennial	Native	viosor
vitrip	Vitis riparia	Vitis riparia var. syrticola	River-Bank Grape	1	FACW	Vine	Perennial	Native	vitrip

Soils: The soil profile at Data Point X15 consisted of 0-10 inches of black (10YR 2/1) silty clay loam with 5% yellowish brown (10YR 5/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The area was inundated to a depth of 1 inch, so the hydrology criterion is satisfied.

Conclusion: Data Point X15 satisfies all three criteria; therefore Area 6 qualifies as wetland.

## Area 7 – Constructed Stormwater Management Basin

Data Point X14

Area 7 (~7.30 acres) is a constructed stormwater management basin located in the southeastern corner of the subject property. Area 7 was under construction in 1972, as seen on historical aerial imagery (**Appendix VI**) and contains a portion of Rott Creek, as seen on the hydrologic atlas (Figure 4).

*Vegetation*: The dominant plant species at Data Point X14 are sandbar willow (*Salix interior*) and cut-leaved teasel (*Dipsacus laciniatus*). Only 50% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

Soils: The soil profile at Data Point X14 consisted of 0-8 inches of black (10YR 2/1) silty clay loam underlain by 7 inches, to a depth of 15 inches below the surface, of yellowish brown (10YR 5/4) silty clay loam mixed fill with 5% yellowish brown (10YR 5/8) redoximorphic concentrations and 5% grayish brown (10YR 5/2) redoximorphic depletions. Hydric soil indicators were not observed, so the soils criterion is not satisfied.

*Hydrology:* The presence of two secondary wetland hydrology indicators D2, Geomorphic Position and D5, FAC-neutral Test, satisfies the hydrology criterion.

Conclusion: Data Point X14 fails to satisfy the vegetation and soils criteria; therefore Area 7 does not qualify as wetland.

### Area 8 - Constructed Stormwater Management Basin

Data Point X17

Area 8 (~15.73 acres) is a constructed stormwater management basin, known as Bell Pond, located in the western portion of the subject property. Area 8 was under construction in 1972, as seen on historical aerial imagery (**Appendix VI**) and contains a portion of Rott Creek, as seen on the hydrologic atlas (Figure 4).

Vegetation: The dominant plant species at Data Point X17 are common buckthorn (*Rhamnus cathartica*), smooth brome (*Bromus inermis*) and reed canary grass (*Phalaris arundinacea*). 66.7% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.

*Soils:* The soil in this location was too saturated to retrieve and could not be classified. However, inundation of the area strongly suggests the presence of hydric soil indicators, so the soils criterion is satisfied.

Hydrology: The area was inundated to a depth of 2 inches, so the hydrology criterion is satisfied.

Conclusion: Data Point X17 satisfies all three criteria to qualify as wetland. In V3's professional opinion, Area 8 is a constructed stormwater management basin.

## Area 9 - Turf Grass Wetland

Data Point X08

Area 9 (0.05 acres) is an area in the turf grass in the northwestern portion of the subject property that satisfies the three wetland criteria.

*Vegetation*: The dominant plant species at Data Point X08 is Kentucky blue grass (*Poa pratensis*). The dominant species is hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 9 are provided below.

Conservatism-Based N	Metrics	Additional Metrics				
Mean C (native species)	1.83	Species Richness (all)	10			
Mean C (all species)	1.10	Species Richness (native)	6			
Mean C (native trees)	n/a	% Non-native	0.40			
Mean C (native shrubs)	n/a	Wet Indicator (all)	-0.80			
Mean C (native herbaceous)	1.83	Wet Indicator (native)	-1.00			
FQAI (native species)	4.49	% hydrophyte (Midwest)	0.90			
FQAI (all species)	3.48	% native perennial	0.30			
Adjusted FQAI	14.20	% native annual	0.30			
% C value 0	0.50	% annual	0.40			
% C Value 1-3	0.50	% perennial	0.50			
% C value 4-6	0.00					
% C value 7-10	0.00					

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
agrsto	Agrostis stolonifera	Agrostis alba palustris	Spreading Bent	2	FACW	FACW	-1	Grass	Perennial
barvul	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial
cernut	Cerastium nutans	Cerastium nutans	Nodding Mouse-Ear Chickweed	0	FACU	FACU	1	Forb	Annual
eleobt	Eleocharis obtusa	Eleocharis ovata	Blunt Spike- Rush	3	OBL	OBL	-2	Sedge	Annual
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major	Common Spike-Rush	1	OBL	OBL	-2	Sedge	Perennial
perhyr	Persicaria hydropiper	Polygonum hydropiper	Mild Water- Pepper	2	OBL	OBL	-2	Forb	Annual
permac	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	FAC	-1	Forb	Annual

phaaru	Phalaris arundinacea	PHALARIS	Reed Canary	0	FACW	FACW	-1	Grass	Perennial
		ARUNDINACEA	Grass						
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue	0	FAC	FACU	0	Grass	Perennial
			Grass						
astsim	Symphyotrichum	Aster simplex	White	3	FAC	FACW	0	Forb	Perennial
	lanceolatum		Panicled						
			American-						
			Aster						

Soils: The soil profile at Data Point X08 consisted of 0-4 inches of black (10YR 2/1) silt loam mixed fill underlain by 6 inches, to a depth of 10 inches below the surface, of gray (10YR 6/1) silty clay loam mixed fill with 10% yellowish brown (10YR 5/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F3, Depleted Matrix, and satisfies the soils criterion.

*Hydrology:* The area at Data Point X08 was inundated to a depth of 1 inch, so the hydrology criterion is satisfied.

Conclusion: Data Point X08 satisfies all three criteria; therefore Area 9 qualifies as wetland.

### Area 10 - Turf Grass Wetland

Data Point X09

Area 10 (0.06 acres) is an area in the turf grass in the northwestern portion of the subject property that satisfies the three wetland criteria.

*Vegetation*: The dominant plant species at Data Point X09 is Kentucky blue grass (*Poa pratensis*). The dominant species is hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 10 are provided below.

Conservatism-Based	Metrics	Additional Metrics				
Mean C (native species)	1.83	Species Richness (all)	9			
Mean C (all species)	1.22	Species Richness (native)	6			
Mean C (native trees)	n/a	% Non-native	0.33			
Mean C (native shrubs)	n/a	Wet Indicator (all)	-0.78			
Mean C (native herbaceous)	1.83	Wet Indicator (native)	-1.00			
FQAI (native species)	4.49	% hydrophyte (Midwest)	0.89			
FQAI (all species)	3.67	% native perennial	0.33			
Adjusted FQAI	14.97	% native annual	0.33			
% C value 0	0.44	% annual	0.44			
% C Value 1-3	0.56	% perennial	0.44			
% C value 4-6	0.00					
% C value 7-10	0.00					

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
agrsto	Agrostis stolonifera	Agrostis alba palustris	Spreading Bent	2	FACW	FACW	-1	Grass	Perennial
barvul	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial

cernut	Cerastium nutans	Cerastium nutans	Nodding Mouse-Ear Chickweed	0	FACU	FACU	1	Forb	Annual
eleobt	Eleocharis obtusa	Eleocharis ovata	Blunt Spike- Rush	3	OBL	OBL	-2	Sedge	Annual
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major	Common Spike-Rush	1	OBL	OBL	-2	Sedge	Perennial
perhyr	Persicaria hydropiper	Polygonum hydropiper	Mild Water- Pepper	2	OBL	OBL	-2	Forb	Annual
permac	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	FAC	-1	Forb	Annual
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0	FAC	FACU	0	Grass	Perennial
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled American- Aster	3	FAC	FACW	0	Forb	Perennial
agrsto	Agrostis stolonifera	Agrostis alba palustris	Spreading Bent	2	FACW	FACW	-1	Grass	Perennial

Soils: The soil profile at Data Point X09 consisted of 0-6 inches of black (10YR 2/1) silty clay loam mixed fill underlain by 4 inches, to a depth of 10 inches below the surface, of gray (10YR 5/1) silty clay loam mixed fill with 15% yellowish brown (10YR 5/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F3, Depleted Matrix, and satisfies the soils criterion.

Hydrology: The soil was saturated at the surface, so the hydrology criterion is satisfied.

Conclusion: Data Point X09 satisfies all three criteria; therefore Area 10 qualifies as wetland.

#### Area 11 – Turf Grass Wetland

Data Point X18

Area 11 (0.01 acres) is an area in the turf grass in the northwestern portion of the subject property that satisfies the three wetland criteria.

Vegetation: The dominant plant species at Data Point X18 is Kentucky blue grass (*Poa pratensis*). The dominant species is hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species inventory for Area 11 are provided below.

Conservatism-Based N	/letrics	Additional Metrics				
Mean C (native species)	1.86	Species Richness (all)	11			
Mean C (all species)	1.18	Species Richness (native)	7			
Mean C (native trees)	n/a	% Non-native	0.36			
Mean C (native shrubs)	n/a	Wet Indicator (all)	-0.82			
Mean C (native herbaceous)	1.86	Wet Indicator (native)	-1.00			
FQAI (native species)	4.91	% hydrophyte (Midwest)	0.91			
FQAI (all species)	3.92	% native perennial	0.36			
Adjusted FQAI	14.81	% native annual	0.27			
% C value 0	0.45	% annual	0.36			
% C Value 1-3	0.55	% perennial	0.55			
% C value 4-6	0.00					
% C value 7-10	0.00					

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
agrsto	Agrostis stolonifera	Agrostis alba palustris	Spreading Bent	2	FACW	FACW	-1	Grass	Perennial
barvul	Barbarea vulgaris	BARBAREA VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial
cxvulp	Carex vulpinoidea	Carex vulpinoidea	Common Fox Sedge	2	FACW	OBL	-1	Sedge	Perennial
cernut	Cerastium nutans	Cerastium nutans	Nodding Mouse-Ear Chickweed	0	FACU	FACU	1	Forb	Annual
eleobt	Eleocharis obtusa	Eleocharis ovata	Blunt Spike- Rush	3	OBL	OBL	-2	Sedge	Annual
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major	Common Spike-Rush	1	OBL	OBL	-2	Sedge	Perennial
perhyr	Persicaria hydropiper	Polygonum hydropiper	Mild Water- Pepper	2	OBL	OBL	-2	Forb	Annual
permac	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	FAC	-1	Forb	Annual
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	FACW	-1	Grass	Perennial
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0	FAC	FACU	0	Grass	Perennial
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled American- Aster	3	FAC	FACW	0	Forb	Perennial

Soils: The soil profile at Data Point X18 consisted of 0-12 inches of very dark grayish brown (10YR 3/2) silty clay loam mixed fill with 10% dark yellowish brown (10YR 4/6) redoximorphic concentrations. This profile exhibits hydric soil field indicator F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The area was inundated to a depth of 1 inch, so the hydrology criterion is satisfied.

Conclusion: Data Point X18 satisfies all three criteria; therefore Area 11 qualifies as wetland.

## Area 12 - Emergent Wetland

Data Point X19

Area 12 (0.05 acres) is an emergent wetland located in the northwest corner of the subject property along a berm. Area 12 continues off-site to the north into Danada Forest Preserve.

#### Summary:

• Emergent Wetland

• Jurisdiction: USACE and DuPage County

Quality: Non-HQAR/RegulatoryVegetated Buffer Required: 50'

*Vegetation:* The dominant plant species at Data Point X19 are green ash (*Fraxinus pennsylvanica*) and reed canary grass (*Phalaris arundinacea*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied. The floristic quality data and plant species list for Area 12 are provided below.

Conservatism-Based M	letrics	Additional N	Metrics
Mean C (native species)	2.71	Species Richness (all)	14
Mean C (all species)	1.36	Species Richness (native)	7
Mean C (native trees)	4.00	% Non-native	50%
Mean C (native shrubs)	4.00	Wet Indicator (all)	-0.43
Mean C (native herbaceous)	2.20	Wet Indicator (native)	-0.86
FQAI (native species)	7.18	% hydrophyte (Midwest)	86%
FQAI (all species)	5.08	% native perennial	50%
Adjusted FQAI	19.19	% native annual	0%
% C value 0	50%	% annual	7%
% C Value 1-3	36%	% perennial	86%
% C value 4-6	14%		
% C value 7-10	0%		

Species Acronym	Species Name (NWPL/Mohlenbrock)	Species(Synonym)	Common Name	C Value	Midwest WET indicator	WET indicator (numeric)	Habit	Duration	Nativity
apocan	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	0	Forb	Perennial	Native
diplac	Dipsacus laciniatus	DIPSACUS LACINIATUS	Cut-Leaf Teasel	0	UPL	2	Forb	Biennial	Adventive
eleery	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major; Eleocharis smallii; Eleocharis xyridiformis; Eleocharis macrostachya	Common Spike-Rush	1	OBL	-2	Sedge	Perennial	Native
frapen	Fraxinus pennsylvanica	Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4	FACW	-1	Tree	Perennial	Native
jundud	Juncus dudleyi	Juncus dudleyi	Dudley's Rush	2	FACW	-1	Forb	Perennial	Native
polper	Persicaria maculosa	POLYGONUM PERSICARIA	Lady's-Thumb	0	FACW	-1	Forb	Annual	Adventive
phaaru	Phalaris arundinacea	PHALARIS ARUNDINACEA	Reed Canary Grass	0	FACW	-1	Grass	Perennial	Adventive
phrausm	Phragmites australis ssp. americanus	Phragmites americanus	Common Reed	3	FACW	-1	Grass	Perennial	Native
poapra	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0	FAC	0	Grass	Perennial	Adventive
pyrcal	Pyrus calleryana	PYRUS CALLERYANA	Ornamental Pear	0	UPL	2	Tree	Perennial	Adventive
rhacat	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0	FAC	0	Shrub	Perennial	Adventive
samcan	Sambucus nigra ssp. canadensis	Sambucus canadensis	Black Elder	4	FAC	-1	Shrub	Perennial	Native
astsim	Symphyotrichum lanceolatum	Aster simplex	White Panicled	3	FAC	0	Forb	Perennial	Native

			American-						
			Aster						
typang	Typha angustifolia	TYPHA ANGUSTIFOLIA	Narrow-Leaf Cat-Tail	0	OBL	-2	Forb	Perennial	Adventive

Soils: The soil profile at Data Point X19 consisted of 0-11 inches of black (10YR 2/1) silt loam with 20& brownish yellow (10YR 6/8) redoximorphic concentrations. Below that, to a depth of 15 inches below the surface, the soil profile was dark grayish brown (2.5Y 4/2) silty clay loam with 15% brownish yellow (10YR 6/6) redoximorphic concentrations and 5% gray (10YR 6/1) redoximorphic depletions. This profile exhibits hydric soil field indicator A11, Depleted Below Dark Surface, and satisfies the soils criterion.

*Hydrology:* The soil was saturated at the surface which satisfies the hydrology criterion.

Conclusion: Data Point X19 satisfies all three criteria; therefore Area 12 qualifies as wetland.

#### ADDITIONAL AREAS INVESTIGATED

#### Area 13 - Man-Made Roadside Ditch

Data Point X16

Area 13 (0.27 acres) is a man-made roadside ditch. In V3's professional opinion, Area 13 is exempt from jurisdiction because it was constructed as a roadside ditch to convey stormwater, as seen on the engineering plans in **Appendix VI**.

*Vegetation*: The dominant plant species at Data Point X16 is narrow-leaved cattail (*Typha angustifolia*). The dominant species is hydrophytic, so the vegetation criterion is satisfied.

Soils: The soil profile at Data Point X16 consisted of 0-10 inches of black (10YR 2/1) silty clay loam with 5% dark yellowish brown (10YR 4/6) redoximorphic concentrations. This profile exhibits hydric soil indicator F6, Redox Dark Surface, and satisfies the soils criterion.

Hydrology: The soil was saturated at the surface, so the hydrology criterion is satisfied.

Conclusion: Data Point X16 satisfies all three criteria to qualify as wetland; however, Area 13 is a man-made roadside ditch, as seen on engineering plans in **Appendix VI** and is exempt from jurisdiction.

### Area 14 - Upland

Data Point X01

Area 14 is mapped as wetland on the NWI (Figure 2) and DuPage County Wetland Map (Figure 3); however, this area does not qualify as wetland and is upland.

Vegetation: The dominant plant species at Data Point X01 are honey locust (*Gleditsia triacanthos*), black walnut (*Juglans nigra*) and wild bergamot (*Monarda fistulosa*). None of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

Soils: The soil profile at Data Point X01 consisted of 0-14 inches of black (10YR 2/1) silty clay loam mixed fill. Garbage and debris were observed in this layer. From 14 to 16 inches below the surface, the soil profile was gray (2.5Y 5/2) silty clay loam mixed fill with 10% yellowish brown (10YR 6/6) redoximorphic

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

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

Conclusion: Data Point X01 fails to satisfy the vegetation and hydrology criteria; therefore Area 14 does not qualify as wetland.

### Area 15 – Upland

Data Point X02

Area 15 is representative of the turf grass upland areas in the northwestern portion of the subject property.

Vegetation: The dominant plant species at Data Point XO2 is Kentucky blue grass (Poa pratensis). The dominant species is hydrophytic, so the vegetation criterion is satisfied.

Soils: The soil profile at Data Point X02 consisted of 0-10 inches of black (10YR 2/10 silt loam mixed fill underlain by 8 inches, to a depth of 18 inches below the surface, of brown (10YR 5/4) silty clay loam mixed fill. 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.

Conclusion: Data Point XO2 fails to satisfy the soil and hydrology criteria; therefore Area 15 does not qualify as wetland.

## Area 16 - Upland

Data Point X04

Area 16 consists of an upland area north of Area 8.

Vegetation: The dominant plant species at Data Point X04 are common buckthorn (Rhamnus cathartica), black raspberry (Rubus occidentalis), meadow fescue (Festuca pratensis), cut-leaved teasel (Dipsacus laciniatus) and creeping Jenny (Lysimachia nummularia). Only 40% of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.

Soils: The soil profile at Data Point X04 consisted of 0-10 inches of black (10YR 2/1) silt loam underlain by 5 inches, to 15 inches below the surface, of brown (2.5Y 5/4) silty clay loam mixed fill with 5% gravel. 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.

Conclusion: Data Point X04 fails to satisfy all three criteria; therefore Area 16 does not qualify as wetland.

Area 17 - Upland

Data Point X06

Area 17 consists of the upland area around Area 3 in the northeast corner of the subject property.

Vegetation: The dominant plant species at Data Point X06 are black walnut (Juglans nigra), common buckthorn (Rhamnus cathartica), sandbar willow (Salix interior) and panicled aster (Symphyotrichum lanceolatum). 75% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.

Soils: The soil profile at Data Point X06 consisted of 0-10 inches of black (10YR 2/1) silty clay loam mixed fill with 5% yellowish brown (10YR 5/6) redoximorphic concentrations and 5% gray (10YR 5/2) redoximorphic depletions. Below that, to a depth of 15 inches below the surface, the soil profile was brown (2.5Y 4/4) silty clay loam mixed fill with 5% yellowish brown (10YR 5/6) redoximorphic concentrations and 5% gray (10YR 5/2) redoximorphic depletions. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

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

*Conclusion:* Data Point X06 fails to satisfy the soils and hydrology criteria; therefore Area 17 does not qualify as wetland.

Area 18 - Spoil Pile

Data Point X10

Area 18 is located in the northwest corner of the north parking lot and consists of spoil piles in a parking lot with hydrophytic vegetation.

*Vegetation*: The dominant plant species at Data Point X10 are eastern cottonwood (*Populus deltoides*) and common reed (*Phragmites australis*). 100% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.

*Soils:* The soil profile at Data Point X10 consisted of 0-4 inches of silty gravel material underlain by impervious pavement. Hydric soil indicators were not observed, so the soils criterion is not satisfied.

Hydrology: The area was inundated to 1 inch, so the hydrology criterion is satisfied.

Conclusion: Data Point X10 fails to satisfy the soils criterion; therefore Area 18 does not qualify as wetland.

Area 19 – Upland

Data Point X12

Area 19 consists of the upland area around Area 5.

Vegetation: The dominant plant species at Data Point X12 are common buckthorn (*Rhamnus cathartica*), cut-leaved teasel (*Dipsacus laciniatus*) and panicled aster (*Symphyotrichum lanceolatum*). 66.7% of the dominant species are hydrophytic, so the vegetation criterion is satisfied.

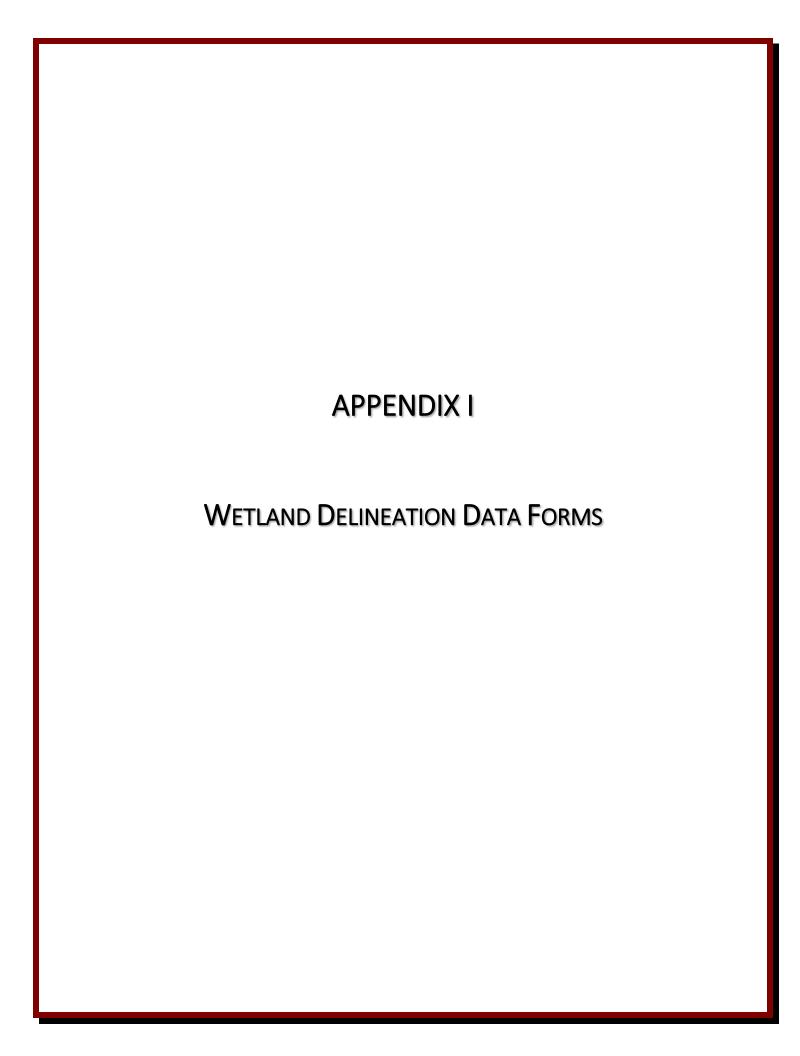
Soils: The soil profile at Data Point X12 consisted of 0-6 inches of balck (10YR 2/1) silty clay loam underlain by 4 inches, to a depth of 10 inches below the surface, of brown (10YR 4/4) silty clay loam. The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.

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

*Conclusion:* Data Point X12 fails to satisfy the soil and hydrology criteria; therefore Area 19 does not qualify as wetland.

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Sapling/Shrub Stratum (Plot size: 15 feet   )     Prevalence Index worksheet:	Section, Township, Range: S
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): flat  Long.: -88.124043 Datum: NAD 1983  NWI classification: PEM1A
Slope:   0.0%   / 0.0 ° Lat.:   41.819002   Long:   -88.124043   Datum:   NAD 1983	Long.: -88.124043 Datum: NAD 1983  NWI classification: PEM1A
Soll Map Unit Name: Orthents, clavey (805B)	NWI classification: PEM1A
Soll Map Unit Name: Orthents, clavey (805b)	NWI classification: PEM1A
Are dimatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation	
Are Vegetation	
Are Vegetation	\( \langle \)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland.    Dominant Species	The Hornal Greathstatics present.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	
Wetland Hydrology Present?         Yes ○ No ○           Wetland Hydrology Present?         Yes ○ No ○           Wetland Hydrology Present?         Yes ○ No ○           This location fails the vegetation and hydrology criteria and does not qualify as wetland.           VEGETATION - Use scientific names of plants.         Dominant Species? Rel.Strat. Species? Rel.Strat. Vocaver Status Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)           1.         0 0 0.0%         0.0%         Total Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)         (A)           2.         0 0 0.0%         0.0%         Percent of dominant Species That Are OBL, FACW, or FAC: 0.0%         (A/E           5.         0 0 0.0%         Percent of dominant Species That Are OBL, FACW, or FAC: 0.0%         (A/E           1. Gleditsia triacanthos         20 ✓ 28.6%         FACU           2. Juglans nigra         40 ✓ 57.1%         FACU           3. Rhamnus cathartica         10 14.3%         FAC           4.         0 0 0.0%         FACU           5.         0 0 0.0%         FACU species 0 x 2 = 0           6.         FACU species 10 x 3 = 30           7.         FACU species 160 x 4 = 640	Is the Sampled Area
Number of Dominant Species Across All Strata: 3 (B)	i within a wetiand: Yes ( ) No ( )
VEGETATION - Use scientific names of plants.    Species?   Tree Stratum (Plot size: 30 feet   )   Absolute   % Cover   Cover   Status   1.	
VEGETATION - Use scientific names of plants.           Absolute % Cover         Species? Stratum (Plot size: 30 feet)         Absolute % Cover Status (Cover Status Process)         Indicator Status (Cover Status Process)         Dominance Test worksheet: Number of Dominant Species (That are OBL, FACW, or FAC:	iteria and does not qualify as wetland
Absolute	iteria and does not quality as wetland.
Absolute	
Absolute Note         Rel.Stratum (Plot size: 30 feet)         Number of Dominant Species That are OBL, FACW, or FAC:         0         (A)           1.         0         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%	of plants. Dominant
Tree Stratum (Plot size: 30 feet)         % Cover 0.0%         Status         Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)           1.	
1.       0       0.0%       That are OBL, FACW, or FAC:       0       (A)         2.       0       0.0%       Total Number of Dominant Species Across All Strata:       3       (B)         4.       0       0.0%       Percent of dominant Species That Are OBL, FACW, or FAC:       0.0%       (A/E)         5.       0       0.0%       That are OBL, FACW, or FAC:       0       (A/E)         Sapling/Shrub Stratum (Plot size: 15 feet       )       Percent of dominant Species That Are OBL, FACW, or FAC:       0.0%       (A/E)         1. Gleditisia triacanthos       20       ✓ 28.6%       FACU       FACU       OBL species       0       x 1 = 0       OBL species       0       x 1 = 0       OBL species       0       x 2 = 0       OBL species       FACW species       0       x 2 = 0       FACW species       10       X 3 = 30       FACW species       10       X 3 = 30       FACW species       160       X 4 = 640       FACW	% Cover Cover Status
3.	
4.	
5.	
Sapling/Shrub Stratum (Plot size: 15 feet       That Are OBL, FACW, or FAC: 0.0% (A/E)         Prevalence Index worksheet:         1. Gleditsia triacanthos       20       ✓ 28.6% FACU       Total % Cover of: Multiply by: OBL species       0       x 1 = 0         2. Juglans nigra       40       ✓ 57.1% FACU       OBL species       0       x 1 = 0         3. Rhamnus cathartica       10       14.3% FAC       FACW species       0       x 2 = 0         4.       0       0.0%       FAC species       10       x 3 = 30         5.       0       0.0%       FACU species       160       x 4 = 640	Daniel and the Control of the Contro
Sapling/Shrub Stratum (Plot size: 15 feet       Prevalence Index worksheet:         1. Gleditsia triacanthos       20       ✓ 28.6%       FACU       Total % Cover of: Multiply by:         2. Juglans nigra       40       ✓ 57.1%       FACU       OBL species       0       x 1 = 0         3. Rhamnus cathartica       10       14.3%       FAC       FACW species       0       x 2 = 0         4.       0       0.0%       FAC species       10       x 3 = 30         5.       0       0.0%       FACU species       160       x 4 = 640	That Are OBL FACW or FAC: 0.0% (A/B)
1. Gleditisia triacanthos       20       ✓ 28.6%       FACU       Total % Cover of:       Multiply by:         2. Juglans nigra       40       ✓ 57.1%       FACU       OBL species       0       x 1 = 0         3. Rhamnus cathartica       10       14.3%       FAC       FACW species       0       x 2 = 0         4.       0       0.0%       FAC species       10       x 3 = 30         5.       0       0.0%       FACU species       160       x 4 = 640	
2. Juglans nigra 40 $\checkmark$ 57.1% FACU OBL species 0 x 1 = 0 3. Rhamnus cathartica 10 14.3% FAC FACW species 0 x 2 = 0 4. 0 0.0% FAC species 10 x 3 = 30 5. 0 0.0% FACU species 160 x 4 = 640	20 70 70 70 70 70 70 70 70 70 70 70 70 70
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	0
Herb Stratum (Plot size: 5 feet ) 70 = Total Cover UPL species 10 x 5 = 50	<u>70</u> = Total Cover UPL species <u>10</u> x 5 = <u>50</u>
1 Monarda fistulosa 80 ▼ 72.7% FACU Column Totals: 180 (A) 720 (B)	80 🗹 72.7% FACU Column Totals: <u>180</u> (A) <u>720</u> (B)
2. Galium aparine 20 18.2% FACU Prevalence Index = B/A = 4.000	
3. Rubus occidentalis  10 9.1% UPL  Hydrophytic Vegetation Indicators:	10 9.1% UPL
4. 0 0.0%	0 0.0%
$\frac{0}{1000} = \frac{0.0\%}{1000} = \frac{0.0\%}{1000}$ 2 - Dominance Test is > 50%	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
8	0  0.0% 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
data in Remarks or on a separate sheet)	data in Remarks or on a separate sheet)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
110 = Total Cover 1 Indicators of hydric soil and wetland hydrology mus	110 = Total Cover
Woody Vine Stratum (Plot size: 5 feet ) be present, unless disturbed or problematic.	be present, unless disturbed or problematic.
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ Hydrophytic	□ Ludronbutio
Vegetation Vegetation	Vegetation
= Total Cover	v = Total Cover Present?
Remarks: (Include photo numbers here or on a separate sheet.)	oparato choot \
	parate sneet.)
None of the dominant species are hydrophytic, so the vegetation criterion is not satisfied.	the vegetation evitorian is not extincted
	the vegetation criterion is not satisfied.

Depth	Matrix		Red	lox Featu	ires				
(inches)	Color (moist)	%	Color (moist)	_%	Type 1	Loc2	Texture		emarks
0-14	10YR 2/1	60					Silty Clay Loam	Mixed fill; _debris	garbage and
		40							
14-16	2.5Y 5/2		10YR 6/6	10%		M	Silty Clay Loam	Mixed fill	
							Sity ciay Loan		
				-		-			
vpe: C=Cond	entration, D=Depletion		ed Matrix. CS=Cover	ed or Coat	ed Sand Gr	ains.	<sup>2</sup> Location: PL=Pore I	ining. M=Matrix.	
ydric Soil I		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,					roblematic Hydric	caile 3.
Histosol (A			Sandy Gleyed	Matrix (S	4)			-	Solis - :
Histic Epip	edon (A2)		Sandy Redox	•	,		Coast Prairie F	. ,	
Black Histi	• •		Stripped Matr	. ,			Dark Surface	•	
Hydrogen	Sulfide (A4)		Loamy Mucky	. ,	=1)		_	se Masses (F12)	
	Layers (A5)		Loamy Gleyed	•	,		☐ Very Shallow I	Dark Surface (TF12)	
2 cm Mucl	` '		Depleted Mati	-	•		Other (Explain	in Remarks)	
_ '	Below Dark Surface (A	11)	Redox Dark S	. ,	)				
_	Surface (A12)		Depleted Darl	•	•		3 Indicators of his	drophytic vegetation	and
Sandy Mu	ck Mineral (S1)		Redox Depres		. ,		wetland hyd	ology must be prese	ent,
5 cm Mucl	ky Peat or Peat (S3)		·				unless distu	irbed or problematic.	•
estrictive La	yer (if observed):								
Type:									
Depth (inch	nes):	d indicator	A12, Thick Dark Su	ırface, ar	nd satisfies	the soils	Hydric Soil Preser	nt? Yes 💿 r	No O
Depth (inchemarks:	, -	d indicator	A12, Thick Dark Su	urface, ar	nd satisfies	the soils		nt? Yes <b>●</b> I	No O
Depth (inclemarks:  is profile ex	chibits hydric soil fiel	d indicator	A12, Thick Dark Su	urface, ar	nd satisfies	the soils		nt? Yes • I	No O
Depth (inclements: ais profile ex	chibits hydric soil fiel  GY  rology Indicators:			urface, ar	nd satisfies	the soils	criterion.		
Depth (inclements: a) profile execution of the control of the cont	chibits hydric soil field  GY  rology Indicators: tors (minimum of one		theck all that apply)			the soils	criterion.  Secondary I	ndicators (minimum	
Depth (inclements) emarks: is profile ex  YDROLO  Yetland Hyd rimary Indica  Surface W	chibits hydric soil field  GY  rology Indicators: tors (minimum of one later (A1)					the soils	criterion.  Secondary I	ndicators (minimum Soil Cracks (B6)	
Depth (inclements) emarks: is profile ex  YDROLO etland Hyd rimary Indica  Surface W	chibits hydric soil field  GY  rology Indicators: tors (minimum of one		theck all that apply)  Water-Stain  Aquatic Fau	ed Leaves na (B13)	(B9)	the soils	criterion.  Secondary I Surface Drainag	ndicators (minimum Soil Cracks (B6) e Patterns (B10)	of two required
Depth (inclements) emarks: is profile ex  YDROLO  Yetland Hyd rimary Indica  Surface W	chibits hydric soil field  GY  rology Indicators: tors (minimum of one later (A1) er Table (A2)		theck all that apply)	ed Leaves na (B13)	(B9)	the soils	criterion.  Secondary I Surface Drainag	ndicators (minimum Soil Cracks (B6)	of two required
Depth (incl emarks: his profile ex  YDROLO  Yetland Hyd rimary Indica  Surface W  High Water	chibits hydric soil field  GY  rology Indicators: tors (minimum of one later (A1) er Table (A2) (A3)		theck all that apply)  Water-Stain  Aquatic Fau	ed Leaves na (B13) c Plants (E	(B9) 314)	the soils	criterion.  Secondary I Surface Drainag Dry Sea	ndicators (minimum Soil Cracks (B6) e Patterns (B10)	of two required
Depth (inclements)  Property DROLO  Petland Hydrimary Indicates  Surface W High Water Saturation Water Mai	chibits hydric soil field  GY  rology Indicators: tors (minimum of one later (A1) er Table (A2) (A3)		heck all that apply)  Water-Stain Aquatic Fau True Aquati	ed Leaves na (B13) c Plants (E ulfide Odo	(B9) B14) or (C1)		Secondary I Surface Drainag Dry Sea	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2)	of two required
Depth (incl emarks: his profile ex  YDROLO  Yetland Hyd rimary Indica Surface W High Wate Saturation Water Mai	chibits hydric soil field of the color of th		heck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres	(B9) 314) or (C1) s on Living F		Secondary I Surface Drainag Dry Sea Crayfish Saturati	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)	of two required ) magery (C9)
Depth (inclements)  Proposed in the profile expension of the profile ex	chibits hydric soil field of the color of th		heck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced	(B9) 314) or (C1) s on Living F Iron (C4)	doots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial I	of two required ) magery (C9)
Depth (includer includer inclu	chibits hydric soil field fiel		heck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior	(B9) B14) or (C1) on Living F Iron (C4) on in Tilled Sc	doots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial I or Stressed Plants (I	of two required ) magery (C9)
Pepth (incleanance) Pepth (incleanance) Petland Hydrimary Indica Surface W High Water Saturation Water Man Sediment Drift Depo	chibits hydric soil field fiel	is required; c	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced : Reductior Surface (C:	(B9) B14) or (C1) s on Living F Iron (C4) or in Tilled Sc 7)	doots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial In or Stressed Plants (I phic Position (D2)	of two required ) magery (C9)
Depth (inclements)  Proposition of the proposition	chibits hydric soil field fiel	is required; o	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reductior Reductior Surface (CX tell Data (I	(B9)  314)  Ir (C1)  S on Living F  Iron (C4)  In in Tilled So  7)  D9)	doots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial In or Stressed Plants (I phic Position (D2)	of two required ) magery (C9)
Pepth (inch Remarks: his profile ex  YDROLO  Yetland Hyd  Frimary Indica  Surface W  High Water  Saturation  Water Man  Sediment  Drift Depo  Algal Mat  Iron Depo  Inundation  Sparsely V	chibits hydric soil field of the color of th	is required; o	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reductior Reductior Surface (CX tell Data (I	(B9)  314)  Ir (C1)  S on Living F  Iron (C4)  In in Tilled So  7)  D9)	doots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial In or Stressed Plants (I phic Position (D2)	of two required ) magery (C9)
Pepth (inche Remarks: nis profile ex PyDROLO Petland Hyd Primary Indica Surface W High Water Man Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V ield Observation Sparsely V	chibits hydric soil field of the color of th	is required; o	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I eli Data (I	(B9)  314)  Ir (C1)  S on Living F  Iron (C4)  In in Tilled So  7)  D9)	doots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial In or Stressed Plants (I phic Position (D2)	of two required ) magery (C9)
Depth (inche Depth (inche Depth (inche Depth (inche Depth (inche Depth D	chibits hydric soil field of the control of the con	is required; of gery (B7) face (B8)	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced : Reductior Surface (C: ell Data (I ain in Rem	(B9) s 14) r (C1) s on Living F Iron (C4) n in Tilled So 7) D9)	toots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial In or Stressed Plants (I phic Position (D2)	of two required ) magery (C9)
Depth (inch Depth (inch Demarks: Demark	chibits hydric soil field of the control of the con	is required; of gery (B7) face (B8)	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced : Reductior Surface (C: ell Data (I ain in Rem	(B9)  314)  Ir (C1)  S on Living F  Iron (C4)  In in Tilled So  7)  D9)	coots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Net	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial II or Stressed Plants (I phic Position (D2)	of two required ) magery (C9) D1)
Depth (incl Depth (incl Demarks: Demark	chibits hydric soil field  GY  rology Indicators:  tors (minimum of one later (A1)  er Table (A2)  (A3)  rks (B1)  Deposits (B2)  sits (B3)  or Crust (B4)  sits (B5)  n Visible on Aerial Image (egetated Concave Surfations:  Present?  Yes  sent?  Yes  Sent?  Yes	is required; of gery (B7) face (B8)	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I eli Data (I elinain in Rem	(B9) s 14) r (C1) s on Living F Iron (C4) n in Tilled So 7) D9)	coots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial II or Stressed Plants (I phic Position (D2)	of two required ) magery (C9)
Depth (inch Depth (inch Demarks: Demark	chibits hydric soil field  GY  rology Indicators:  tors (minimum of one later (A1)  er Table (A2)  (A3)  rks (B1)  Deposits (B2)  sits (B3)  or Crust (B4)  sits (B5)  n Visible on Aerial Image (egetated Concave Surfations:  Present?  Yes  sent?  Yes  Sent?  Yes	gery (B7) face (B8)  No  No  No  No	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced : Reductior Surface (C: ell Data (I ain in Rem	(B9)  If (C1) If on Living For (C4) In in Tilled Sof (C4) In arrived Sof (C4) In arriv	coots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Net	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial II or Stressed Plants (I phic Position (D2)	of two required ) magery (C9) D1)
Pepth (inche Pepth (inche Pepth (inche Pepth (inche Pepth (inche Pepth P	chibits hydric soil field shibits hydric soil field shibits hydric soil field shibits hydric soil field shibits hydric s	gery (B7) face (B8)  No  No  No  No	theck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced : Reductior Surface (C: ell Data (I ain in Rem	(B9)  If (C1) If on Living For (C4) In in Tilled Sof (C4) In arrived Sof (C4) In arriv	coots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Net	ndicators (minimum Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial II or Stressed Plants (I phic Position (D2)	of two required ) magery (C9) D1)

nvestigator(s): A. Metzger, D. Jablonski Section, Township, Range: S 5 T 38N R 10E  andform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): flat	Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County	: Naperville/D	uPage	Sampling Date:	22-Apr-19
Section, Township, Range: \$ 5	Applicant/Owner: Lincoln Property Company Commercial Inc.		State:	<u>IL</u> Sam	pling Point:	X02
Local relief (concews, convex, none): flat    Datum: NAD 1983		Section, T			N R 10E	
Depth   Dept	Landform (hillslope, terrace, etc.): Flat		Local relief (	concave, convex, none):	flat	_
May bin Name:   Milford sitiv clay loam (69A)   No		Lonc	_			) 1983
re dimasc/hydrologic conditions on the site typical for this time of year? Yes ® No			00.123030			7 15 55
re vegetation  , Soil  , or Hydrology   spriftcantly disturbed? An "hormal Circumstances" present? Yes   No		Yes No (	) (If no. e)		ation: <u>None</u>	
UMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.    West   No					Yes (	• No (
UMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.				·	Cociic.	J 110 C
hydrophytic Vegetation Present? Yes No No hydrology Present? Yes No No within a Wetland? Yes No						s. etc.
State   Sampled Are within a Wetland?   Yes   No	<u> </u>					
Ves   No   No   No   No   No   No   No   N						
Note	,	w	ithin a Wetland	j? Yes ○ No •	)	
Tries   Stratum   (Plot size: 30 feet   )						
Note		and qualify as wetla	nd.			
Absolute   Species   Absolute   Absolute   Species   Absolute   Abso	THIS location falls the sons and nyurology criteria and does	TOL quality as wella	na.			
Absolute   Species   Absolute   Absolute   Species   Absolute   Abso						
Absolute   Absolute	<b>VEGETATION -</b> Use scientific names of plan					
1.		Absolute Rel.Str		Dominance Test wo	orksheet:	
2.		% Cover Cove	er Status			
3.	2			That are OBL, FACW,	or FAC:	_1(A)
4.						
Description	1			Species Across All Stra	ata:	_1 (B)
Sablino/Shrub Stratum (Plot size: 15 feet   )				Percent of dominar	nt Species	
Prevalence Index worksheet:   Total % Cover of: Multiply by:	J					<u>0.0%</u> (A/B)
1.	_Sapling/Shrub Stratum (Plot size: 15 feet )			Prevalence Index w	 orksheet:	
2.		0	%			ov:
3.	<u> </u>		%			
Semarks: (Include photo numbers here or on a separate sheet.)   Size	3	0 0.0	%	FACW species	_	0
Herb Stratum (Plot size: 5 feet   )	-	00.0	%	FAC species	100 x 3 =	300
Poa pratensis   100	5			FACU species	x 4 =	0
2.	Herb Stratum (Plot size: 5 feet )	= Total	Cover	UPL species	x 5 =	0
3.	1. Poa pratensis	100 🗸 100.	0%_FAC	Column Totals:	<u>100</u> (A)	(B)
3.	2.	0 0.0	%	Prevalence Ind	lex = B/A = 3	: 000
4.	2	0 0.0	%			.000
6. 7. 8. 9. 10. Woody Vine Stratum (Plot size: 5 feet  1. 2.  O	4	00.0	%			tation
6. 7. 8. 0 0.0% 9. 10. Woody Vine Stratum (Plot size: 5 feet )  1. 2.  Remarks: (Include photo numbers here or on a separate sheet.)  0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%		_ 0	%			.ation
8.						
9.						ovide supporting
10.	0			data in Remarks	or on a separate sh	eet)
Moody Vine Stratum (Plot size: 5 feet   )   100   = Total Cover   1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.   1.				Problematic Hyd	Irophytic Vegetation	<sup>1</sup> (Explain)
Noody Vine Stratum (Plot size: 5 feet )  1.				<sup>1</sup> Indicators of hyd	ric soil and wetland	hydrology must
2.				be present, unless	disturbed or problem	natic.
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic		
Remarks: (Include photo numbers here or on a separate sheet.)	2			Vegetation	- (a) Na (	
		0 = Total	Cover	Present? Yes	s · No ·	
The dominant species is hydrophytic, so the vegetation criterion is satisfied.		•				
	The dominant species is hydrophytic, so the vegetation cri	terion is satisfied.				
	, , , , ,					

Profile Description: (De	escribe to tr Matrix	ie deptii iie		dox Featu	rec					
DepthColor (	(moist)	%	Color (moist)	<u>%</u>	Type 1	Loc2	Texture		R	emarks
0-10 10YR	2/1						Silt Loam	Mi xed	fill	
10-18 10YR	5/4						Silty Clay Loam	Mi xed	fill	
							-			
							-			
Type: C=Concentration, I	D=Depletion,	RM=Reduce	ed Matrix, CS=Cove	red or Coat	ed Sand Gr	ains.	<sup>2</sup> Location: PL=Pore	Lining. M=Ma	trix.	
Hydric Soil Indicators:							Indicators for F	roblematic	Hvdric	: Soils <sup>3</sup> :
Histosol (A1)			Sandy Gleyed	d Matrix (S4	1)		Coast Prairie		,	
Histic Epipedon (A2)			Sandy Redox	(S5)			Dark Surface	, ,		
Black Histic (A3)	`		Stripped Mat	rix (S6)			☐ Iron Mangane	. ,	:12\	
Hydrogen Sulfide (A4	-		Loamy Mucky	/ Mineral (F	1)		☐ Very Shallow	•	,	
Stratified Layers (A5)  2 cm Muck (A10)			Loamy Gleye	d Matrix (F	2)				. ,	
Depleted Below Dark	Surface (A11	1)	Depleted Ma	. ,			Other (Explain	ı ııı kemarks)	,	
Thick Dark Surface (A	•	·)	Redox Dark S	•	•		_			
Sandy Muck Mineral (	,		Depleted Dai	`	,		3 Indicators of h	drophytic ve	getatior	n and
5 cm Mucky Peat or F	. ,		Redox Depre	ssions (F8)				rology must b urbed or prob		
Restrictive Layer (if ob	. ,									
	serveu).									
Туре:							Hydric Soil Prese	nt? Yes	$\bigcirc$	No 💿
	ere not obse	erved, so th	e soils criterion is	s not satis	fied.		Hydric Soil Prese	nt? Yes	0	No <sup>©</sup>
Type: Depth (inches): Remarks:	ere not obse	erved, so th	e soils criterion is	s not satis	fied.		Hydric Soil Prese	nt? Yes	0	No <b>⊙</b>
Type: Depth (inches): Remarks: Hydric soil indicators we	ere not obse	erved, so th	e soils criterion is	s not satis	fied.		Hydric Soil Prese	nt? Yes	0	No •
Type: Depth (inches): Remarks: Hydric soil indicators we		erved, so th	e soils criterion is	s not satis	fied.		Hydric Soil Prese	nt? Yes	0	No •
Type: Depth (inches): Remarks:	licators:			s not satis	fied.					No  of two required
Type: Depth (inches): Remarks: Hydric soil indicators we HYDROLOGY Wetland Hydrology Indicators	licators:						Secondary		inimum	
Type:	licators: num of one is		neck all that apply)	ned Leaves			Secondary	Indicators (mi	inimum B6)	
Type:	licators: num of one is		neck all that apply)	ned Leaves una (B13)	(B9)		Secondary Surface	Indicators (mi	inimum B6)	of two required
Type:	licators: num of one is		neck all that apply)  Water-Stain  Aquatic Fa	ned Leaves una (B13) ic Plants (B	(B9)		Secondary  Surface  Drainag  Dry Sea	Indicators (mi Soil Cracks (i e Patterns (B	inimum B6) :10) able (C2	of two required
Type:	licators: num of one is		neck all that apply)  Water-Stain Aquatic Fail True Aquat	ned Leaves una (B13) iic Plants (B Sulfide Odo	(B9)	oots (C3)	Secondary   Surface Drainag Dry Sea	indicators (mi Soil Cracks (l e Patterns (B son Water Ta	inimum B6) :10) able (C2	of two required_
Type:	licators: num of one is		neck all that apply)  Water-Stain Aquatic Fail True Aquat	ned Leaves una (B13) iic Plants (B Sulfide Odo nizospheres	(B9) :14) r (C1) s on Living F	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat	indicators (mi Soil Cracks (i e Patterns (B son Water Ta Burrows (C8	inimum B6) :10) able (C2 3) Aerial 1	of two required 2) Imagery (C9)
Type:	licators: num of one is 2)		neck all that apply)  Water-Stain Aquatic Fan True Aquat Hydrogen S Oxidized Ri	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced 1	(B9) :14) r (C1) s on Living F		Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted	Indicators (mi Soil Cracks (l e Patterns (B son Water Ta l Burrows (C8 on Visible on	inimum B6) 10) able (C2 8) Aerial I	of two required 2) Imagery (C9)
Type:	licators: num of one is 2)		neck all that apply)  Water-Stain Aquatic Fan True Aquat Hydrogen S Oxidized Ri	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction	(B9) r (C1) s on Living F fron (C4) i in Tilled So		Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (l e Patterns (B son Water Ta I Burrows (C8 on Visible on or Stressed I	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32)	required; ch	neck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized RI  Presence o  Recent Iron	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (CZ	(B9) r (C1) s on Living F fron (C4) a in Tilled So		Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (le Patterns (B Ison Water Ta Is Burrows (C8 on Visible on or Stressed I Iphic Position	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32) 4) Aerial Image	required; ch	neck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized RI  Presence o  Recent Iron  Thin Muck	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C7 Vell Data (E	(B9) r (C1) s on Living F Iron (C4) n in Tilled So 7)		Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (le Patterns (B Ison Water Ta Is Burrows (C8 on Visible on or Stressed I Iphic Position	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32) 4) Aerial Image	required; ch	weck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized Ri  Presence o  Recent Iron  Thin Muck  Gauge or V	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C7 Vell Data (E	(B9) r (C1) s on Living F Iron (C4) n in Tilled So 7)		Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (le Patterns (B Ison Water Ta Is Burrows (C8 on Visible on or Stressed I Iphic Position	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32) 4) Aerial Image	ery (B7) ice (B8)	neck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized Ri  Presence o  Recent Iron  Thin Muck  Gauge or V	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C7 Vell Data (E	(B9) r (C1) s on Living F Iron (C4) n in Tilled So 7)		Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (le Patterns (B Ison Water Ta Is Burrows (C8 on Visible on or Stressed I Iphic Position	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32) 4) Aerial Image ioncave Surfa	ery (B7) ace (B8)	meck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized R  Presence o  Recent Iron  Thin Muck  Gauge or V  Other (Exp	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (CI Vell Data (E lain in Rem	(B9) r (C1) s on Living F fron (C4) n in Tilled Sc r ) O9) arks)	ils (C6)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (le Patterns (B Ison Water Ta Is Burrows (C8 on Visible on or Stressed I Iphic Position	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32) 4) Aerial Image concave Surfa Yes Yes	ery (B7) Ice (B8)  No  No	meck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized R  Presence o  Recent Iron  Thin Muck  Gauge or V  Other (Exp	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (CI Vell Data (E lain in Rem	(B9) r (C1) s on Living F Iron (C4) n in Tilled So 7)	ils (C6)	Secondary Surface Drainag Dry Sea Crayfist Saturat Stunted Geomoi	Indicators (mi Soil Cracks (le Patterns (B son Water Ta Burrows (C8 on Visible on or Stressed I phic Position utral Test (D5	inimum B6) ±10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9) D1)
Type:	licators: num of one is 2) 32) 4) Aerial Image ioncave Surfa	ery (B7) Ice (B8)  No  No	meck all that apply)  Water-Stain  Aquatic Fan  True Aquat  Hydrogen S  Oxidized R  Presence o  Recent Iron  Thin Muck  Gauge or V  Other (Exp	ned Leaves una (B13) ic Plants (B Gulfide Odo nizospheres f Reduced I n Reduction Surface (C Vell Data (I lain in Rem ches): ches):	(B9) r (C1) s on Living F fron (C4) n in Tilled Sc r ) O9) arks)	ils (C6)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (mi Soil Cracks (le Patterns (B son Water Ta Burrows (C8 on Visible on or Stressed I phic Position utral Test (D5	inimum B6) :10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9)
Type:	licators: num of one is 2) 32) 4) Aerial Image concave Surfa  Yes Yes	ery (B7) uce (B8)  No  No  No  No  No	neck all that apply)  Water-Stain Aquatic Fan True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Gauge or V Other (Exp	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C Vell Data (E lain in Rem ches): ches):	(B9) r (C1) s on Living F fron (C4) n in Tilled So r ) O9) arks)	weti	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (mi Soil Cracks (le Patterns (B son Water Ta Burrows (C8 on Visible on or Stressed I phic Position utral Test (D5	inimum B6) ±10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9) D1)
Type:	licators: num of one is 2) 32) 4) Aerial Image concave Surfa  Yes Yes	ery (B7) uce (B8)  No  No  No  No  No	neck all that apply)  Water-Stain Aquatic Fan True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Gauge or V Other (Exp	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C Vell Data (E lain in Rem ches): ches):	(B9) r (C1) s on Living F fron (C4) n in Tilled So r ) O9) arks)	weti	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (mi Soil Cracks (le Patterns (B son Water Ta Burrows (C8 on Visible on or Stressed I phic Position utral Test (D5	inimum B6) ±10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9) D1)
Type:	licators: num of one is 2) 32) 4) Aerial Image concave Surfa  Yes Yes	ery (B7) uce (B8)  No  No  No  No  No	neck all that apply)  Water-Stain Aquatic Fan True Aquat Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Gauge or V Other (Exp	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C Vell Data (E lain in Rem ches): ches):	(B9) r (C1) s on Living F fron (C4) n in Tilled So r ) O9) arks)	weti	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (mi Soil Cracks (le Patterns (B son Water Ta Burrows (C8 on Visible on or Stressed I phic Position utral Test (D5	inimum B6) ±10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9) D1)
Type:	licators: num of one is 2) 32) 4) Aerial Image concave Surfa  Yes Yes Yes a (stream g.	ery (B7) ace (B8)  No   No   No   auge, moni	Depth (in Depth (in toring well, aeria	ned Leaves una (B13) ic Plants (B Sulfide Odo nizospheres f Reduced I n Reduction Surface (C7 Vell Data (I lain in Rem ches): ches): I photos, I	(B9) r (C1) s on Living F fron (C4) i in Tilled Sc 7) D9) arks)	Weti	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	indicators (mi Soil Cracks (lee Patterns (Beson Water Tale Burrows (C8) on Visible on or Stressed lephic Position utral Test (D5)	inimum B6) ±10) able (C2 8) Aerial I Plants ( (D2)	of two required 2) Imagery (C9) D1)

Applicant/Owner: Lincoln Property Company Commercial Inc.    State: 1L   Sampling Point:   X03
Local relief (concave, convex, none): filat    Slope: 0.0%
Slope: 0.0% / 0.0 ° Lat.: 41.821149 Long.: -88.124431 Datum: NAD 1983  Soil Map Unit Name: Martinton silt loam (189A)  Are dimatic/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 Present? Yes No SummARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Suetland Hydrology Prese
Soil Map Unit Name: Martinton silt loam (189A)  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 No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No
Soil Map Unit Name: Martinton silt loam (189A)  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation
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
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 No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No No No No Wetland Hydrology Present? Yes No
Are Vegetation
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No
Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No
Hydric Soil Present?  Yes No  No  Wetland Hydrology Present?  Remarks: This location satisfies all three criteria and qualifies as wetland.  VEGETATION - Use scientific names of plants.  Dominant Species? Rel.Stratt.  1. Fraxinus pennsylvanica 1. Fraxinus pennsylvanica 2. 3.  0 0.0%  Total Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species That are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata: 2 (B)
Wetland Hydrology Present? Yes No
Remarks: This location satisfies all three criteria and qualifies as wetland.  VEGETATION - Use scientific names of plants.    Dominant Species   Status   Species   S
This location satisfies all three criteria and qualifies as wetland.  VEGETATION - Use scientific names of plants.    Dominant   Species?   Indicator   Status
VEGETATION - Use scientific names of plants.    Tree Stratum (Plot size: 30 feet
Absolute Rel.Strat. Cover Status  1. Fraxinus pennsylvanica  2. 0 0 0.0%  3. 0 0.0%  1. Fraxinus pennsylvanica 0 0.0%  3. 0 0.0%  3. 0 0.0%  3. 0 0.0%  4 Dominance Test worksheet:  Number of Dominant Species  That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 2 (B)
Absolute Number of Dominante Test worksheet:  1. Fraxinus pennsylvanica  1
Absolute % Cover Cover Status  1. Fraxinus pennsylvanica  1. Quantification (Plot size: 30 feet 2)  1. Fraxinus pennsylvanica  1.
1. Fraxinus pennsylvanica  10 ✓ 100.0% FACW That are OBL, FACW, or FAC: 2 (A)  2. 0 □ 0.0%  3. 0 □ 0.0% Total Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 2 (B)
2.       0       □ 0.0%       Total Number of Dominant Species Across All Strata:       2       (B)
3
4
$\begin{bmatrix} 5 \end{bmatrix}$ Percent of dominant Species
= Total Cover
Sapling/Shrub Stratum (Plot size: 15 feet )  Prevalence Index worksheet:
1 O O.0% Total % Cover of: Multiply by:
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Herb Stratum (Plot size: 5 feet ) 0 = Total Cover UPL species 0 x 5 = 0
THEIR STREET, THE
2 Assessment and black and a 11 10 500
3. 0 0.0%
0   0.0%
5. 0 0.0% 1 - Rapid Test for hydrophytic vegetation
6. 0 0.0% 2 - Dominance Test is > 50%
7. 0 0.0%
data in Remarks or on a separate sheet)
10 Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
90 = Total Cover 1- Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet ) be present, unless disturbed or problematic.
1
Vegetation
0 = Total Cover Present? Yes No
<u>'</u>
Demarks (Include photo numbers have as an account of the think
Remarks: (Include photo numbers here or on a separate sheet.)
Remarks: (Include photo numbers here or on a separate sheet.)  All of the dominant species are hydrophytic, so the vegetation criterion is satisfied.

Depth	Matrix			Rec	lox Featu	ıres					
(inches) Color (i		%	Color	(moist)	%	Type 1	Loc2	Texture		R	emarks
0-11 10YR	2/1		10YR	6/8	20	С	М	Silt Loam			
11-15 2.5Y	4/2		10YR	6/6	15%	С	М	Silty Clay Loam			
			10YR	6/1	5%	D	М				
			10111								
ype: C=Concentration, D	-Depletion	DM-Deduc	ad Matrix	CS-Cover	ed or Coat	tod Sand Gr		<sup>2</sup> Location: PL=Pore	Lining M	-Matriy	
ydric Soil Indicators:	-Depletion,	Ki-i-Kedde	eu Platrix,	, cs=coven	ed or coat	teu Sanu Gr	uli i 3.				2
Histosol (A1)			☐ Sa	ndy Gleyed	Matriy (S	4)		Indicators for F	roblema	itic Hydric	Soils 3:
Histic Epipedon (A2)				ndy Redox	•	7)		Coast Prairie	Redox (A	16)	
Black Histic (A3)				ripped Matri	. ,			Dark Surface	(S7)		
Hydrogen Sulfide (A4)				amy Mucky	. ,	E1\		☐ Iron Mangane	ese Masse	es (F12)	
Stratified Layers (A5)			_	amy Gleyed	,	,		☐ Very Shallow	Dark Sur	face (TF12)	
2 cm Muck (A10)				epleted Matr	-	2)		Other (Explain	n in Rema	arks)	
Depleted Below Dark S	Surface (A11	.)		edox Dark S	. ,	:\					
Thick Dark Surface (A1	12)			epleted Dark	•	•		3			
Sandy Muck Mineral (S	S1)		_	dox Depres		` ,		<sup>3</sup> Indicators of howetland hyd	/drophyti rology m	c vegetatior	n and ent
5 cm Mucky Peat or Pe	eat (S3)			dox Depres	1510115 (1 0)	,				problematic	
strictive Layer (if obs	erved):										
Type:											
Depth (inches):emarks:	ic soil field	indicator /	 A11, Dep	oleted Belo	ow Dark S	Surface, ar	nd satisfie	Hydric Soil Prese	nt?	Yes •	No O
Depth (inches):emarks:	ic soil field	indicator /	411, Dep	oleted Beld	ow Dark S	Surface, ar	nd satisfie		nt?	Yes •	No ∪
Depth (inches): emarks: is profile exhibits hydr	ic soil field	indicator <i>i</i>	411, Dep	oleted Beld	ow Dark S	Surface, ar	nd satisfie		nt?	Yes ●	No ∪
Depth (inches):emarks: is profile exhibits hydr	cators:				ow Dark S	Surface, ar	nd satisfie		nt?	Yes •	No U
Depth (inches):emarks: is profile exhibits hydr	cators:				ow Dark \$	Surface, ar	nd satisfie	es the soils criterion.			of two required
Depth (inches):emarks: is profile exhibits hydr  POROLOGY  etland Hydrology Indirimary Indicators (minimum Surface Water (A1)	cators: um of one is		heck all th				nd satisfie	es the soils criterion.		s (minimum	
Depth (inches):emarks: is profile exhibits hydrology  POROLOGY  etland Hydrology Indiciting Indicators (minimum Surface Water (A1)	cators: um of one is		heck all th	hat apply) Water-Stain Aquatic Fau	ed Leaves na (B13)	(B9)	nd satisfie	Secondary  Surface  Drainag	Indicators Soil Crac e Patterr	s (minimum cks (B6) us (B10)	of two required
Depth (inches):emarks: is profile exhibits hydr  POROLOGY  etland Hydrology Indirimary Indicators (minimum Surface Water (A1)	cators: um of one is		heck all th	nat apply) Water-Stain	ed Leaves na (B13)	(B9)	nd satisfie	Secondary  Surface  Drainag	Indicators Soil Crac e Patterr	s (minimum cks (B6)	of two required
Depth (inches):emarks: is profile exhibits hydrology  YDROLOGY  etland Hydrology Indicitimary Indicators (minimum Surface Water (A1)  High Water Table (A2)	cators: um of one is		heck all th	hat apply) Water-Stain Aquatic Fau	ed Leaves na (B13) c Plants (E	s (B9)	nd satisfie	Secondary Surface Drainag Dry Sez	Indicators Soil Crac e Patterr	s (minimum cks (B6) is (B10) er Table (C2	of two required
Depth (inches):emarks: is profile exhibits hydrology  PROLOGY  etland Hydrology Indicitionary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)	<b>cators:</b> um of one is		neck all th	nat apply) Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves na (B13) c Plants (E ulfide Odo	s (B9)		Secondary  Surface  Drainac  Dry Sea	Indicators Soil Crac e Patterr ison Wate Burrows	s (minimum cks (B6) as (B10) er Table (C2	of two required
Depth (inches):emarks: is profile exhibits hydrology  POROLOGY  etland Hydrology Indicitionary Indicators (minimum Indic	<b>cators:</b> um of one is		heck all th	nat apply) Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres	i (B9) 314) or (C1) s on Living F		Secondary Surface Drainag Dry Sea Crayfisl Saturat	Indicators Soil Crac ge Patterr geon Wate n Burrows ion Visible	s (minimum cks (B6) as (B10) er Table (C2	of two required
Depth (inches):emarks: is profile exhibits hydrology  POROLOGY  etland Hydrology Indicitionary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	cators: um of one is		heck all th	hat apply) Water-Stain Aquatic Fau Frue Aquati Hydrogen Si Oxidized Rh Presence of	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced	i (B9) 314) or (C1) s on Living F	Roots (C3)	Secondary Surface Drainag Crayfish Sturted Sturted	Indicators Soil Crace Patterr son Wate Burrows ion Visible or Stres	s (minimum cks (B6) as (B10) er Table (C2 s (C8) e on Aerial I	of two required
pepth (inches): emarks: is profile exhibits hydr  YDROLOGY  Yetland Hydrology Indi rimary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	cators: um of one is		heck all th	hat apply) Water-Stain Aquatic Fau Frue Aquati Hydrogen Si Oxidized Rh Presence of	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior	s (B9) 314) or (C1) s on Living F Iron (C4) n in Tilled So	Roots (C3)	Secondary Surface Drainag Crayfish Sturted Sturted	Indicators Soil Crac the Pattern Son Wate Burrows Son Visible Or Stres Thic Posi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Depth (inches): emarks: is profile exhibits hydr  YDROLOGY  etland Hydrology Indi rimary Indicators (minimu)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	cators: um of one is	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary Surface Drainace Dry See Crayfist Saturat Stuntece Geomo	Indicators Soil Crac the Pattern Son Wate Burrows Son Visible Or Stres Thic Posi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Depth (inches): emarks: is profile exhibits hydr  PROLOGY  etland Hydrology Indi rimary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	cators: um of one is 2) Aerial Image	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Dxidized Rh Presence of Recent Iron Thin Muck S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (Ci ell Data (I	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9)	Roots (C3)	Secondary Surface Drainace Dry See Crayfist Saturat Stuntece Geomo	Indicators Soil Crac the Pattern Son Wate Burrows Son Visible Or Stres Thic Posi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Pepth (inches): emarks: is profile exhibits hydre  PyDROLOGY  Petland Hydrology Indi rimary Indicators (minimumary Indicators (minimumary Indicators (minimumary Indicators (Marcology Indi rimary Indicators (Marcology Indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	cators: um of one is 2) Aerial Image	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (Ci ell Data (I	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9)	Roots (C3)	Secondary Surface Drainace Dry See Crayfist Saturat Stuntece Geomo	Indicators Soil Crac the Pattern Son Wate Burrows Son Visible Or Stres Thic Posi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Depth (inches): emarks: is profile exhibits hydr  YDROLOGY  etland Hydrology Indi rimary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co	cators: um of one is 2) Aerial Image	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9)	Roots (C3)	Secondary Surface Drainace Dry See Crayfist Saturat Stuntece Geomo	Indicators Soil Crac the Pattern Son Wate Burrows Son Visible Or Stres Thic Posi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Depth (inches): emarks: his profile exhibits hydrology  YDROLOGY  Yetland Hydrology Indi rimary Indicators (minimumary Indicators (minimumary Indicators (minimumary Indicators (Marian)  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 A  Sparsely Vegetated Co  ield Observations: urface Water Present?	cators: um of one is 2) Aerial Image oncave Surfa	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Dxidized Rh Presence of Recent Iron Thin Muck Si Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C' ell Data (I ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) or in Tilled So 7) D9) harks)	Roots (C3)	Secondary Surface Drainace Dry See Crayfist Saturat Stuntece Geomo	Indicators Soil Crac the Pattern Son Wate Burrows Son Visible Or Stres Thic Posi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Depth (inches): emarks: his profile exhibits hydrology  YDROLOGY  Vetland Hydrology Indi rimary Indicators (minimumary Indicators (minimu	cators: um of one is 2) Aerial Image oncave Surfa Yes Yes	ery (B7) ce (B8)  No  No	heck all th	hat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C' ell Data (I ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9)	Roots (C3)	Secondary Surface Drainace Dry See Crayfist Saturat Stuntece Geomo	Indicators Soil Crac ie Patterr ison Wate in Burrows ion Visible i or Stres rphic Posi utral Tesi	s (minimum ks (B6) ns (B10) er Table (C2 s (C8) e on Aerial I sed Plants ( tion (D2)	of two required
Depth (inches):  Remarks: his profile exhibits hydrology  Vetland Hydrology Individual Indicators (minimumary Indicators (Mater Table (Mater Table Present?  Remarks:  Nater Table Present?  Nater Table Present?  Nater Table Present?  Nater Table Present?	cators: um of one is 2) Aerial Image oncave Surfa	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Dxidized Rh Presence of Recent Iron Thin Muck Si Gauge or W Other (Explain	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I eli Data (I elinain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) or in Tilled So 7) D9) harks)	Roots (C3)	Secondary Surface Drainag Dry See Crayfist Saturat Stunted Geomo	Indicators Soil Crac ie Patterr ison Wate in Burrows ion Visible i or Stres rphic Posi utral Tesi	s (minimum cks (B6) as (B10) er Table (C2 s (C8) e on Aerial 1 sed Plants ( tion (D2) t (D5)	of two required 2) (magery (C9) D1)
Depth (inches): emarks: his profile exhibits hydrology  YDROLOGY  Vetland Hydrology Indi rimary Indicators (minimumary Indicators (minimu	cators: um of one is  2)  Aerial Image uncave Surfa  Yes  Yes  Yes	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Dxidized Rh Presence of Recent Iron Thin Muck Si Gauge or W Other (Explain Depth (inc	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9) harks)	Roots (C3) bils (C6)	Secondary Surface Drainag Crayfist Stunted Geomo FAC-Ne	Indicators Soil Crac ie Patterr ison Wate in Burrows ion Visible i or Stres rphic Posi utral Tesi	s (minimum cks (B6) as (B10) er Table (C2 s (C8) e on Aerial 1 sed Plants ( tion (D2) t (D5)	of two required 2) (magery (C9) D1)
Depth (inches): emarks: is profile exhibits hydr  YDROLOGY  Tetland Hydrology Indi rimary Indicators (minimul 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 A Sparsely Vegetated Co  Teld Observations: Cater Table Present?	cators: um of one is  2)  Aerial Image uncave Surfa  Yes  Yes  Yes	required; cl	heck all th	nat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Dxidized Rh Presence of Recent Iron Thin Muck Si Gauge or W Other (Explain Depth (inc	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9) harks)	Roots (C3) bils (C6)	Secondary Surface Drainag Crayfist Stunted Geomo FAC-Ne	Indicators Soil Crac ie Patterr ison Wate in Burrows ion Visible i or Stres rphic Posi utral Tesi	s (minimum cks (B6) as (B10) er Table (C2 s (C8) e on Aerial 1 sed Plants ( tion (D2) t (D5)	of two required 2) (magery (C9) D1)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	Cit	y/County:	Naperville/Du	uPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.			State:	IL Sampling Point: X04
Investigator(s): A. Metzger, D. Jablonski	§	Section, Town	ship, Range:	S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Flat		I	Local relief (c	concave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.821453		Long.: -	88.124363	Datum: NAD 1983
Soil Map Unit Name: Martinton silt loam (189A)		_ · _		NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of y	<sub>rear?</sub> Yes	● No ○	(If no, ex	xplain in Remarks.)
	gnificantly dist			ormal Circumstances" present?
	aturally proble			ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	, ,		•	,
Hydrophytic Vegetation Present? Yes No •		T		
Hydric Soil Present? Yes ○ No ●			e Sampled A n a Wetland	
Wetland Hydrology Present? Yes No  No		WILLI	n a welland	r Yes ∪ No ♥
Remarks:				
This location fails all three criteria and does not qualify as v	vetland.			
VECETATION Lies esigntific names of plan	±			
<b>VEGETATION -</b> Use scientific names of plan		Dominant - Species?		<u> </u>
Tree Stratum (Plot size: 30 feet )	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1	0		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2		0.0%		
3		0.0%		Total Number of Dominant Species Across All Strata: 5 (B)
4.	_	0.0%		
5	0	0.0%		Percent of dominant Species  That Are ORI FACW or FAC: 40.0% (A/B)
	0	= Total Cove	er	That Are OBL, FACW, or FAC: 40.0% (A/B)
<u>Sapling/Shrub Stratum (Plot size: 15 feet</u> )		_		Prevalence Index worksheet:
1. Rhamnus cathartica		50.0%	FAC	Total % Cover of: Multiply by:
2. Rubus occidentalis		50.0%	UPL	OBL species <u>0</u> x 1 = <u>0</u>
34.	0	0.0%		FACW species $20 \times 2 = 40$
5.	0	0.0%		FACI species 10 x 3 = 30
	20	= Total Cove		FACU species 60 x 4 = 240 UPL species 30 x 5 = 150
<u>Herb Stratum</u> (Plot size: <u>5 feet</u> )			zi	
1 Festuca pratensis		60.0%	FACU	Column Totals: <u>120</u> (A) <u>460</u> (B)
2. Dipsacus laciniatus		20.0%	UPL	Prevalence Index = B/A = <u>3.833</u>
3. Lysimachia nummularia		20.0%	FACW	Hydrophytic Vegetation Indicators:
4		0.0%		1 - Rapid Test for Hydrophytic Vegetation
5. 6.		0.0%		☐ 2 - Dominance Test is > 50%
7		0.0%	- —	$\Box$ 3 - Prevalence Index is ≤3.0 $^1$
8.	0	0.0%		4 - Morphological Adaptations 1 (Provide supporting
9.	0	0.0%		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10.	0	0.0%		
Woody Vine Stratum (Plot size: 5 feet )	100	= Total Cove	er	$\frac{1}{2}$ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0	0.0%		be present amos distarsed or produced.
1 2.	0	0.0%		Hydrophytic
<u> </u>		= Total Cove		Vegetation Present? Yes No   No
		- 10(6) 0070	21	riesenti
Remarks: (Include photo numbers here or on a separate sh	neet )			
Less than 50% of the dominant species are hydrophytic, so	,	tion criterio	n ic not sati	icfied
Less than 50% or the dominant species are nydrophydic, 30	the vegetat	JOH CHEHO	115 1100 366	sileu.

rofile Description: (Describe to the d Depth <u>Matrix</u>	Red	ox Feature	es			
эсри.	6 Color (moist)		Type <sup>1</sup>	Loc2	Texture	Remarks
0-10 10YR 2/1					Silt Loam	
10-15 2.5Y 5/4					Silty Clay Loam	Mixed fill; 5% gravel
ype: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covere	ed or Coated	d Sand Gra	ains.	<sup>2</sup> Location: PL=Pore L	
ydric Soil Indicators:					Indicators for P	oblematic Hydric Soils <sup>3</sup> :
Histosol (A1)	☐ Sandy Gleyed				Coast Prairie R	edox (A16)
Histic Epipedon (A2)	Sandy Redox (	(S5)			Dark Surface (	, ,
Black Histic (A3)	Stripped Matri	x (S6)				se Masses (F12)
☐ Hydrogen Sulfide (A4)	Loamy Mucky	Mineral (F1)	)			` '
☐ Stratified Layers (A5)	Loamy Gleyed	Matrix (F2)	1		_ '	Park Surface (TF12)
2 cm Muck (A10)	Depleted Matr				Other (Explain	in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Su	. ,				
Thick Dark Surface (A12)	Depleted Dark	, ,	7)		3	duamba dia wasabadia e e e d
Sandy Muck Mineral (S1)	Redox Depres	`	• •		indicators of hydrogen	drophytic vegetation and ology must be present,
5 cm Mucky Peat or Peat (S3)	Kedox Depres	(F6)				rbed or problematic.
estrictive Layer (if observed):						
Type:						
Depth (inches):emarks:	ed, so the soils criterion is	not satisfic	ed.		Hydric Soil Presen	it? Yes ○ No •
Depth (inches):emarks:	ed, so the soils criterion is	not satisfic	ed.		Hydric Soil Presen	t? Yes ○ No •
Depth (inches):emarks:  /dric soil indicators were not observe	ed, so the soils criterion is	not satisfic	ed.		Hydric Soil Presen	it? Yes ○ No •
Depth (inches):emarks:  rdric soil indicators were not observe  YDROLOGY  Tetland Hydrology Indicators:		not satisfid	ed.			
Depth (inches):	uired; check all that apply)				Secondary I	ndicators (minimum of two required
Depth (inches):emarks:  rdric soil indicators were not observe  YDROLOGY  /etland Hydrology Indicators:  rimary Indicators (minimum of one is recommon of the common	uired; check all that apply)	ed Leaves (E			Secondary In	ndicators (minimum of two required Soil Cracks (B6)
Depth (inches):emarks: dric soil indicators were not observe  YDROLOGY  etland Hydrology Indicators: rimary Indicators (minimum of one is rec  Surface Water (A1)  High Water Table (A2)	uired; check all that apply)  Water-Staine	ed Leaves (B na (B13)	B9)		Secondary In  Surface  Drainage	ndicators (minimum of two required Soil Cracks (B6) & Patterns (B10)
Depth (inches):emarks: dric soil indicators were not observe  YDROLOGY  Yetland Hydrology Indicators: rimary Indicators (minimum of one is rec  Surface Water (A1)	uired; check all that apply)	ed Leaves (B na (B13)	B9)		Secondary In  Surface  Drainage	ndicators (minimum of two required Soil Cracks (B6)
Depth (inches):  Demarks:  Adric soil indicators were not observed  YDROLOGY  Tetland Hydrology Indicators:  rrimary Indicators (minimum of one is recommended)  Surface Water (A1)  High Water Table (A2)	uired; check all that apply)  Water-Staine	ed Leaves (E na (B13) : Plants (B1	B9) 4)		Secondary Ii Surface Drainage Dry Seas	ndicators (minimum of two required Soil Cracks (B6) & Patterns (B10)
Depth (inches):emarks:  rdric soil indicators were not observe  YDROLOGY  Tetland Hydrology Indicators:  rimary Indicators (minimum of one is recommany Indicators (Minimum of One is recommany Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	uired; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (I na (B13) : Plants (B14 ulfide Odor (	B9) 4) (C1)	oots (C3)	Secondary II Surface Drainage Dry Seas	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2)
Depth (inches):emarks:  rdric soil indicators were not observed.  YDROLOGY  retland Hydrology Indicators:  rimary Indicators (minimum of one is recommany Indicators (Minimum of one is recommany Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St	ed Leaves (B na (B13) t Plants (B14 llfide Odor ( zospheres c	B9) 4) (C1) on Living F	oots (C3)	Secondary II Surface Drainage Dry Seas Crayfish Saturatio	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
Depth (inches): emarks: dric soil indicators were not observed  YDROLOGY  Yetland Hydrology Indicators: rimary Indicators (minimum of one is recompleted) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi	ed Leaves (B na (B13) : Plants (B14 ulfide Odor ( zospheres o Reduced Iro	B9) 4) (C1) on Living Fon (C4)	. ,	Secondary II Surface Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Depth (inches): emarks: dric soil indicators were not observed  YDROLOGY  Yetland Hydrology Indicators: rimary Indicators (minimum of one is recompleted) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	ed Leaves (Ena (B13) : Plants (B14 ulfide Odor ( zospheres o Reduced Iro Reduction in	B9) (C1) on Living Fon (C4) n Tilled Sc	. ,	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2)
Depth (inches): emarks: dric soil indicators were not observed  YDROLOGY  Tetland Hydrology Indicators: rimary Indicators (minimum of one is recompleted) 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)	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves (Ena (B13): Plants (B14): Iffide Odor ( zospheres of Reduced Iro Reduction in	B9) (C1) on Living Fon (C4) n Tilled Sc	. ,	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Depth (inches): emarks: dric soil indicators were not observed  YDROLOGY  Yetland Hydrology Indicators: rimary Indicators (minimum of one is recompleted) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves (Ena (B13): Plants (B14) Ilfide Odor ( zospheres of Reduced Iro Reduction in the control of the contr	B9) (C1) on Living Fon (C4) n Tilled Sc	. ,	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2)
Depth (inches): emarks: dric soil indicators were not observed  YDROLOGY  [etland Hydrology Indicators: rimary Indicators (minimum of one is recommany Indicators (Min	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves (Ena (B13): Plants (B14) Ilfide Odor ( zospheres of Reduced Iro Reduction in the control of the contr	B9) (C1) on Living Fon (C4) n Tilled Sc	. ,	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2)
Depth (inches):emarks:  rdric soil indicators were not observed.  PUROLOGY  Vetland Hydrology Indicators:  rimary Indicators (minimum of one is recommany Indica	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S  B7) Gauge or Wo	ed Leaves (Ena (B13) : Plants (B14) : Plants (G14) : Ilfide Odor ( zospheres o Reduced Iro Reduction ii urface (C7) ell Data (D9) in in Remar	B9) (C1) on Living Fon (C4) n Tilled Sc	. ,	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2)
Depth (inches):	wired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S B7) Gauge or Wo B8)  Other (Explain	ed Leaves (Ena (B13) : Plants (B14) : Plants (G14) : Ilfide Odor ( zospheres o Reduced Iro Reduction ii urface (C7) ell Data (D9) in in Remar	B9) (C1) on Living Fon (C4) n Tilled Sc	. ,	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Shic Position (D2)
Depth (inches):  Demarks:  Adric soil indicators were not observed  Part of the property of th	uired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S  B7) Gauge or Wo	ed Leaves (Bana (B13): Plants (B14) Iffide Odor ( Zospheres of Reduced Iron (Reduction in (B14) Reduction in (B14) Reduction in Remark Reduction in Remark	B9) (C1) on Living Fon (C4) n Tilled Sc	ils (C6)	Secondary In  Surface  Drainage  Crayfish  Saturatic  Stunted  Geomory  FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) tral Test (D5)
Depth (inches):	wired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rhi Presence of Recent Iron Thin Muck S B7) Gauge or We B8)  Other (Explaine)  No  Depth (inc	ed Leaves (Ena (B13): Plants (B14): Plants (	B9) (C1) on Living Fon (C4) n Tilled Sc	ils (C6)	Secondary In Surface Drainage Dry Seas Crayfish Saturatio Stunted Geomory	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) tral Test (D5)
Depth (inches):  Demarks:  Adric soil indicators were not observed  Petland Hydrology Indicators:  Irimary Indicators (minimum of one is recommany Indicators (Male Mater 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 (Male Male Male Male Male Male Male Male	wired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S B7) Gauge or We B8)  Other (Explained)  No Depth (inc	ed Leaves (Ena (B13): Plants (B14): Plants (B14): Plants (B14): Plants (C7): Plants	B9) (C1) on Living Fon (C4) n Tilled Sc	ils (C6)	Secondary In Surface Drainage Crayfish Saturatio Stunted Geomory FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) tral Test (D5)
Depth (inches):  Demarks:  Adric soil indicators were not observed  Path of the property of th	wired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S B7) Gauge or We B8)  Other (Explained)  No Depth (inc	ed Leaves (Ena (B13): Plants (B14): Plants (B14): Plants (B14): Plants (C7): Plants	B9) (C1) on Living Fon (C4) n Tilled Sc	ils (C6)	Secondary In Surface Drainage Crayfish Saturatio Stunted Geomory FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) tral Test (D5)
Depth (inches):  Demarks:  Adric soil indicators were not observed  Path of the property of th	wired; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S B7) Gauge or We B8)  Other (Explained)  No Depth (inc	ed Leaves (Ena (B13): Plants (B14): Plants (B14): Plants (B14): Plants (C7): Plants	B9) (C1) on Living Fon (C4) n Tilled Sc	ils (C6)	Secondary In Surface Drainage Crayfish Saturatio Stunted Geomory FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Ohic Position (D2) tral Test (D5)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/0	County: Nar	perville/Dul	Page Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.			State:	IL Sampling Point: X05
Investigator(s): A. Metzger, D. Jablonski	Sec	ction, Township		
Landform (hillslope, terrace, etc.): Lowland		Loca	al relief (co	oncave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.821406		Long.: -88.	124061	 Datum: NAD 1983
Soil Map Unit Name: Elliott silt loam (146A)			124001	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of y	Yes •	No O	/If no. exr	plain in Remarks.)
	ignificantly distur			rmal Circumstances" present? Yes  No  No
				mul direamsearces present.
Are Vegetation	aturally problem		-	led, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes   No				
Hydric Soil Present? Yes No			ampled Ar	
Wetland Hydrology Present? Yes No		within a	Wetland?	? Yes ● No ○
Remarks:				
This location satisfies all three criteria and qualifies as wetl	and.			_
<b>VEGETATION -</b> Use scientific names of plan		Dominant Species? —		
To Class (Diet size) 30 feet	Absolute P	Rel.Strat. In		Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )	<b>% Cover</b> 0		Status	Number of Dominant Species
2		0.0%		That are OBL, FACW, or FAC: (A)
3		0.0%		Total Number of Dominant Species Across All Strata: 1 (B)
4.		0.0%		Species Across Air Strata
5	0	0.0%		Percent of dominant Species That Are OBL FACW or FAC: 100.0% (A/B)
456.4	=	Total Cover	L	That Are OBL, FACW, or FAC:100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15 feet )		٦		Prevalence Index worksheet:
1	• [	0.0%	—— [	Total % Cover of: Multiply by:
3.	0	0.0%		OBL species 0 x 1 = 0 FACW species 60 x 2 = 120
4		0.0%		FACW species 60 x 2 = 120 FAC species 10 x 3 = 30
5.	0	0.0%		FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 5 feet )	=	Total Cover		UPL species 15 x 5 = 75
1 Phalaris arundinacea	60	<b>7</b> 70.6% F.	ACW	Column Totals: <u>85</u> (A) <u>225</u> (B)
2. Dipsacus laciniatus	15		JPL JPL	
3. Apocynum cannabinum	10		AC	Prevalence Index = B/A = 2.647
4.	0	0.0%		Hydrophytic Vegetation Indicators:
5	0	0.0%		✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is > 50%
6		0.0%		✓ 2 - Dominance Test is > 50%  ✓ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
7	0	0.0%	[	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8. 9.	0	0.0%		data in Remarks or on a separate sheet)
10.	0 [	0.0%		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		Total Cover		1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )			-	be present, unless disturbed or problematic.
1	0 _	0.0%		Hydrophytic
2	0			Vegetation No. 1
		Total Cover		Present? Yes No U
Remarks: (Include photo numbers here or on a separate sl	neet.)			
The dominant species is hydrophytic, so the vegetation crit	,	ed		
The dominant species is mydrophydd, so the regetation and	CHOIL IS SAUS	cu.		

Profile Descript	ion: (Describe	to the depth r	eeded to documen	the ind	icator or co	onfirm th	e absence of indicators.)	
Depth	Matrix			ox Featu			_	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type 1	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1						Silt Loam	
4-10	2.5Y 4/2		10YR 5/8	25			Silty Clay Loam	
			-			-		
							_	
						-	- ,	
1 Type: C=Concen	tration, D=Deple	ion, RM=Reduc	ced Matrix, CS=Covere	ed or Coat	ted Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining	. M=Matrix.
Hydric Soil Ind		,	,					matic Hydric Soils <sup>3</sup> :
Histosol (A1)			Sandy Gleyed	Matrix (S	4)			•
Histic Epiped			Sandy Redox	-	,		Coast Prairie Redox	(A16)
☐ Black Histic (	A3)		Stripped Matri				Dark Surface (S7)	
Hydrogen Su	Ifide (A4)		Loamy Mucky	` '	F1)		Iron Manganese Ma	isses (F12)
Stratified Lay	ers (A5)		Loamy Gleyed	`	,			Surface (TF12)
2 cm Muck (A	A10)		Depleted Matr	-	_,		Other (Explain in Re	emarks)
Depleted Bel	ow Dark Surface	(A11)	✓ Redox Dark Si	` ,	5)			
Thick Dark S	urface (A12)		Depleted Dark	•	•		<sup>3</sup> Indicators of hydroph	nutic vogetation and
Sandy Muck	Mineral (S1)		Redox Depres		` '		wetland hydrology	must be present,
5 cm Mucky	Peat or Peat (S3)						unless disturbed	or problematic.
Restrictive Laye	er (if observed)	•						
Туре:								
Depth (inches	s):						Hydric Soil Present?	Yes ● No O
Remarks:							•	
This profile exhil	hits hydric soil f	ield indicator	F6, Redox Dark Su	rface an	d satisfies	the soils	criterion	
Triis profile exim	bits flydric son i	icia iliaicatoi	To, Redox Bark Su	rucc, un	ia satisfies	tric sons	CITCHIOTI	
HYDROLOG	Y							
Wetland Hydrol			check all that apply)				Cocondany Indica	tors (minimum of two required
		ie is requireu; o			(50)			tors (minimum of two required
Surface Wate	. ,		☐ Water-Stain		s (B9)		☐ Surface Soil C	` '
High Water T	. ,		Aquatic Fau	. ,			☐ Drainage Patt	` '
Saturation (A	-		True Aquation					/ater Table (C2)
Water Marks			Hydrogen S		. ,		Crayfish Burro	
Sediment De			Oxidized Rh	•	-	ROOTS (C3)		sible on Aerial Imagery (C9)
Drift Deposits			Presence of		. ,	'I. (CC)		ressed Plants (D1)
Algal Mat or			Recent Iron			olis (C6)	Geomorphic F	` ,
☐ Iron Deposits		(DZ)	Thin Muck S				✓ FAC-Neutral 1	est (D5)
	isible on Aerial In		☐ Gauge or W	-	-			
Sparsely Veg	etated Concave S	Surface (B8)	U Other (Expla	in in Rem	narks)			
Field Observation		s • No	) Donth (inc	hoo\.	1			
Surface Water Pre				nes):	1	-		
Water Table Pres	ent? Ye	s O No 🤄	Depth (inc	hes):		_   ,,,,,	land Hudnelson Brassett	Yes ● No ○
Saturation Presen	YA	s O No @	Depth (inc	hes):		wet	land Hydrology Present?	res 🕙 No 🔾
(includes capillary	/ ITIIIge)		nitoring well, aerial	nhotos	nrevious in	spection	s) if available:	
Describe Record	ica Data (streat	ii gaage, iiioi	intoring wen, acriai	priotos,	previous in	ізрессіон	3), ii uvullubici	
Domarko								
Remarks:	data 10				: <i>!</i> : 6			
The area was in	nundated to a d	epth of 1 inch	, so the hydrology	criterion	is satisfied	1.		

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County: Naperville/Di	uPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.	State:	IL Sampling Point: X06
Investigator(s): _A. Metzger, D. Jablonski	Section, Township, Range:	: S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Flat	Local relief (c	concave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.821776	Long.: -88.122226	Datum: NAD 1983
Soil Map Unit Name: Milford silty clay loam (69A)		NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of y	vear? Yes  No  (If no, ex	xplain in Remarks.)
		ormal Circumstances" present? Yes   No
Are Vegetation , Soil , or Hydrology na		ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampling point location	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes  No		
Hydric Soil Present? Yes No •	Is the Sampled A within a Wetland	
Wetland Hydrology Present? Yes O No •	Within a 1700	res U no U
Remarks:	<u> </u>	
This location fails the soils and hydrology criteria and does	not qualify as wetland.	
<b>VEGETATION -</b> Use scientific names of plant	ts. <b>Dominant</b>	
VEGETATION SSESSION SINCE STREET	Species? —	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 feet</u> )	Absolute Rel.Strat. Indicator % Cover Cover Status	
1. Juglans nigra	10 100.0% FACU	Number of Dominant Species That are OBL, FACW, or FAC:
2		Total Number of Dominant
3		Species Across All Strata: 4 (B)
4		Develop of dominant Caprica
5	0	Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
_Sapling/Shrub Stratum (Plot size: 15 feet )	10 = Total Cover	Prevalence Index worksheet:
1 Dhamana anthantia	70 🗹 77.8% FAC	Total % Cover of: Multiply by:
2. Salix interior	20 ✓ 22.2% FACW	OBL species $0 \times 1 = 0$
3.	0 0.0%	FACW species $20 \times 2 = 40$
4.	0 0.0%	FAC species 100 x 3 = 300
5.	0 0.0%	FACU species $10 \times 4 = 40$
Herb Stratum (Plot size: 5 feet )	90 = Total Cover	UPL species 0 x 5 = 0
1 Symphyotrichum lanceolatum ssp. lanceolatum var. interior	30 <b>✓</b> 100.0% FAC	Column Totals: <u>130</u> (A) <u>380</u> (B)
2.	0 0.0%	Prevalence Index = B/A = 2.923
3.		,
4.		Hydrophytic Vegetation Indicators:
5.		☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is > 50%
6	0 0.0%	✓ 2 - Dominance Test is > 50%  ✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
7	0 0.0%	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8	0 0.0%	data in Remarks or on a separate sheet)
9. 10.	0 0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0 0.0% 30 = Total Cover	$\frac{1}{a}$ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )		be present, unless disturbed or problematic.
1,	0 0.0%	11d
2		Hydrophytic Vegetation Present? Yes • No •
	0 = Total Cover	Present? Yes • No ·
	• •	
Remarks: (Include photo numbers here or on a separate sh	•	
Greater than 50% of the dominant species are hydrophytic,	, so the vegetation criterion is satis	ified.

Depth	Matrix			Red	lox Featı	ures		_			
(inches) Co	olor (moist)	%	Color	(moist)	%	Type 1	Loc2	Texture		R	Remarks
0-10 10	YR 2/1		10YR	5/6	5			Silty Clay Loam	Mi	xed Fill	
			10YR	5/2	5						
			101K	_ =====================================			-		Mi	xed Fill	
10-15 2.5	5Y 4/4		10YR	5/6	5			Silty Clay Loam	IVIT	xeu riii	
			10YR	5/1	5						
							-				
								2			
ype: C=Concentrat		i, RM=Reduce	ed Matrix	, CS=Covere	ed or Coa	ted Sand Gr	ains.	<sup>2</sup> Location: PL=Pore L	ining. M	=Matrix.	
dric Soil Indicat	ors:							Indicators for P	roblema	atic Hydric	c Soils <sup>3</sup> :
Histosol (A1)			☐ Sa	andy Gleyed	Matrix (S	4)		Coast Prairie F	Pedov (A	16)	
Histic Epipedon (	(A2)		Sa	andy Redox	(S5)			Dark Surface (	•	10)	
Black Histic (A3)			☐ St	ripped Matri	ix (S6)				. ,	(512)	
Hydrogen Sulfide			Lo	amy Mucky	Mineral (	F1)		☐ Iron Mangane		. ,	
Stratified Layers	(A5)			amy Gleyed		-		☐ Very Shallow I		` '	)
2 cm Muck (A10)	)			epleted Matr	-	,		Other (Explain	in Rema	arks)	
Depleted Below	Dark Surface (A1	.1)		edox Dark Si	. ,	5)					
Thick Dark Surfa	ce (A12)			epleted Dark	•	•		3			
Sandy Muck Min	eral (S1)			•		. ,		<sup>3</sup> Indicators of hy wetland hydi	drophyti	c vegetatio	n and
5 cm Mucky Peat			R€	edox Depres	sions (F8)	)		unless distu			
estrictive Layer (i	f observed):										
	i observed).										
Type:								Hydric Soil Preser	1t? \	Vec 🔾	No (•)
Type: Depth (inches): emarks:	tion does not n	neet a hydri	c soil in	dicator, so	the soils	s criterion i	s not sati	Hydric Soil Preser	nt? '	Yes O	No •
Type: Depth (inches): emarks:	tion does not n	neet a hydri	c soil in	dicator, so	the soils	s criterion i	s not sati		nt? '	Yes O	No •
Type: Depth (inches):_ emarks: e soil in this loca	tion does not n	neet a hydri	c soil in	dicator, so	the soils	s criterion i	s not sati		nt? `	Yes O	No •
Type: Depth (inches):_ emarks: e soil in this loca		neet a hydri	c soil in	dicator, so	the soils	s criterion i	s not sati		nt?	Yes O	No •
Type: Depth (inches):_ emarks: le soil in this loca  YDROLOGY  Tetland Hydrology	· Indicators:				the soils	s criterion i	s not sati	sfied.			No •
Type:	r <b>Indicators:</b> ninimum of one i		heck all ti	hat apply)			s not sati	Secondary I	ndicators	s (minimum	
Type: Depth (inches):_emarks: e soil in this loca  **TOROLOGY** etland Hydrology** imary Indicators (r.     Surface Water (A.	r Indicators: ninimum of one i		heck all t	hat apply) Water-Stain	ed Leaves		s not sati	Secondary I	ndicators Soil Crac	s (minimun cks (B6)	
Type:	r Indicators: ninimum of one i		heck all t	hat apply) Water-Stain Aquatic Faul	ed Leaves na (B13)	s (B9)	s not sati	Secondary I Surface Drainage	ndicators Soil Crac e Patterr	s (minimun cks (B6) ns (B10)	n of two required
Type:	r Indicators: ninimum of one i A1) e (A2)		heck all t	hat apply) Water-Stain Aquatic Fau True Aquatic	ed Leaves na (B13) c Plants (I	s (B9) B14)	s not sati	Secondary I Surface Drainag Dry Sea	ndicators Soil Crac e Patterr son Wate	s (minimum cks (B6) ns (B10) er Table (C	n of two required
Type:	r Indicators: ninimum of one i h1) e (A2)		heck all t	hat apply) Water-Stain Aquatic Faul True Aquatic Hydrogen St	ed Leaves na (B13) c Plants (I	s (B9) B14) or (C1)		Secondary I Surface Drainag Dry Sea Crayfish	ndicators Soil Crac e Patterr son Wate Burrows	s (minimum cks (B6) ns (B10) er Table (C	n of two required
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2)		heck all t	hat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi	ed Leaves na (B13) c Plants (I ulfide Odo izosphere	s (B9) B14) or (C1) s on Living F		Secondary I Surface Drainag Dry Sea Crayfish Saturati	ndicators Soil Crac e Patterr son Wate Burrows on Visible	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2)		heck all t	hat apply) Water-Staind Aquatic Faul True Aquatid Hydrogen St Oxidized Rhi Presence of	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced	s (B9) B14) or (C1) s on Living F Iron (C4)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2)		heck all t	hat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced	s (B9) B14) or (C1) s on Living F Iron (C4)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2) 3) st (B4)		heck all ti	hat apply) Water-Staind Aquatic Faul True Aquatid Hydrogen St Oxidized Rhi Presence of	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reductio	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled Sc	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2) 3) st (B4) 5)	is required; cl	heck all the	hat apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C	s (B9) B14) or (C1) s on Living I Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i ninimum o	is required; cl	heck all ti	hat apply) Water-Stains Aquatic Faus True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C fell Data (	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag	is required; cl	heck all ti	hat apply) Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C fell Data (	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i A1) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag	is required; cl	heck all ti	hat apply) Water-Staind Aquatic Faul True Aquatic Hydrogen Staind Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wo	ed Leaves na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C fell Data (I	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type: Depth (inches): emarks: le soil in this loca  YDROLOGY  Yetland Hydrology rimary Indicators (r  Surface Water (A  High Water Table Saturation (A3) Water Marks (B1  Sediment Deposits (B  Algal Mat or Crue Iron Deposits (B  Inundation Visible Sparsely Vegetat  Iteld Observations	r Indicators: ninimum of one i A1) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag ted Concave Surf :  Yes	is required; cl	heck all ti	hat apply) Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves na (B13) c Plants (I ulfide Odd izosphere Reduced Reduction Surface (C fell Data (I	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i ninimum o	is required; cl	heck all ti	hat apply) Water-Staind Aquatic Faul True Aquatic Hydrogen Staind Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wo	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C 'ell Data ( 'ell Data ( 'ell Data ( 'ell Data (	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Neu	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi utral Test	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2) t (D5)	n of two required  2)  Imagery (C9) (D1)
Type:	r Indicators: ninimum of one i n1) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag red Concave Surf : nt? Yes	is required; cl	heck all ti	hat apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Gurface (C dell Data (I ain in Ren ches):	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi utral Test	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2)	n of two required  2)  Imagery (C9)
Type:	r Indicators: ninimum of one i nin) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag ted Concave Surf it? Yes  Yes  nge) Yes	is required; classifier (B7) face (B8)  No   No   No   No   No   No	heck all ti	hat apply) Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C ell Data (i ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9) narks)	Roots (C3) bils (C6)  Wet	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Net	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi utral Test	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2) t (D5)	n of two required  2)  Imagery (C9) (D1)
Type:	r Indicators: ninimum of one i nin) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag ted Concave Surf it? Yes  Yes  nge) Yes	is required; classifier (B7) face (B8)  No   No   No   No   No   No	heck all ti	hat apply) Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C ell Data (i ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9) narks)	Roots (C3) bils (C6)  Wet	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Net	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi utral Test	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2) t (D5)	n of two required  2)  Imagery (C9) (D1)
Type:	r Indicators: ninimum of one i nin) e (A2) ) its (B2) 3) st (B4) 5) e on Aerial Imag ted Concave Surf it? Yes  Yes  nge) Yes	is required; classifier (B7) face (B8)  No   No   No   No   No   No   No   No	heck all ti	hat apply) Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inc	ed Leaves na (B13) c Plants (I ulfide Odc izosphere Reduced Reduction Surface (C ell Data (i ain in Rem	s (B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7) D9) narks)	Roots (C3) bils (C6)  Wet	Secondary I Surface Drainag Dry Sea Crayfish Saturati Stunted Geomor FAC-Net	ndicators Soil Crac e Patterr son Wate Burrows on Visible or Stress phic Posi utral Test	s (minimum cks (B6) ns (B10) er Table (C s (C8) e on Aerial sed Plants ition (D2) t (D5)	n of two required  2)  Imagery (C9) (D1)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County: Naperville/D	DuPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.	State:	: IL Sampling Point: X07
Investigator(s): A. Metzger, D. Jablonski	Section, Township, Range:	: S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Lowland		concave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.821632	Long.: -88,122057	
Soil Map Unit Name: Milford silty clay loam (69A)	2011911 -00.122037	NWI classification: PEM1F
Are climatic/hydrologic conditions on the site typical for this time of y	Yes No O (If no ex	xplain in Remarks.)
		ormal Circumstances" present?
		ormal circumstances present.
Are Vegetation, Soil, or Hydrology no SUMMARY OF FINDINGS - Attach site map show	•	eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes  No	<u> </u>	, , ,
	Is the Sampled A	
,, , , , , , , , , , , , , , , , , , , ,	within a Wetland	d? Yes   No
Remarks: This location satisfies all three criteria and qualifies as wetle	and	
This location satisfies all timee criteria and qualifies as well	anu.	
<b>VEGETATION -</b> Use scientific names of plan		
(2)	Absolute Rel.Strat. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )	% Cover Cover Status	Number of Dominant Species
1. Populus deltoides 2.	70 V 100.0% FAC 0.0%	That are OBL, FACW, or FAC:3(A)
2. 3		Total Number of Dominant
4.		Species Across All Strata:3(B)
5.	0 0.0%	Percent of dominant Species
	70 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
_Sapling/Shrub Stratum (Plot size: 15 feet)		Prevalence Index worksheet:
1. Salix interior	40 <u>100.0%</u> FACW	Total % Cover of: Multiply by:
2		OBL species 0 x 1 = 0
3	0 0.0%	FACW species $40 \times 2 = 80$
5.	0 0.0%	FAC species $80$ $\times 3 = 240$ FACU species $0$ $\times 4 = 0$
	40 = Total Cover	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 feet )		
1_Symphyotrichum lanceolatum ssp. lanceolatum var. interior	10 100.0% FAC	Column Totals: <u>120</u> (A) <u>320</u> (B)
2	0 0.0%	Prevalence Index = B/A = <u>2.667</u>
3 4		Hydrophytic Vegetation Indicators:
5	0 0.0%	1 - Rapid Test for Hydrophytic Vegetation
6.	0 0.0%	2 - Dominance Test is > 50%
7	0 0.0%	3 - Prevalence Index is ≤3.0 ¹      A Manufacturian 1 (Duration 1)
8	0 0.0%	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
9	0 0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0	$\frac{1}{-}$ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )	10 = Total Cover	be present, unless disturbed or problematic.
1,	0 0.0%	
2	0 0.0%	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes  No
		1
Remarks: (Include photo numbers here or on a separate sh	•	
All of the dominant species are hydrophytic, so the vegetat	ion criterion is satisfied.	

Profile Descrip	otion: (Descr	be to the dep	th needed to docum	nent the ind	icator or c	onfirm th	e absence of indicators.)	
Depth _		trix		Redox Feat			_	
(inches)	Color (mo	<u>'st)</u> <u>%</u>	Color (moist)		Type 1	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR	2/1	10YR4/6	6 5			Silty Clay Loam	
4-10	10YR	5/1	10YR5/6	6 20			Silty Clay Loam	
	-							
	-				-	_		
1 Type: C=Conce	entration, D=D	epletion, RM=R	educed Matrix, CS=Co	vered or Coa	ted Sand Gr	rains.	<sup>2</sup> Location: PL=Pore Lining	. M=Matrix.
Hydric Soil In	•	,	,				Indicators for Proble	
Histosol (A1			Sandy Gle	yed Matrix (S	i4)			•
Histic Epipe	•		Sandy Rec	-	,		Coast Prairie Redox	(A16)
☐ Black Histic	(A3)			Matrix (S6)			Dark Surface (S7)	
Hydrogen S	Sulfide (A4)			ıcky Mineral (	F1)		Iron Manganese Ma	asses (F12)
Stratified La	ayers (A5)			eyed Matrix (F	•		Very Shallow Dark S	Surface (TF12)
2 cm Muck	(A10)			Matrix (F3)	_,		Other (Explain in Re	emarks)
☐ Depleted Be	elow Dark Surf	ace (A11)	= '	rk Surface (F6	5)			
Thick Dark	Surface (A12)			Dark Surface	•		<sup>3</sup> Indicators of hydroph	
Sandy Muck	k Mineral (S1)		= .	pressions (F8	` '		wetland hydrology	must be present.
5 cm Mucky	Peat or Peat	(S3)	Redox Dep	71 03310113 (1 0	,		unless disturbed	
Restrictive Lay	yer (if observ	ed):						
Type:								
Depth (inche	es):						Hydric Soil Present?	Yes   No
Remarks:							<u> </u>	
	sibita budria d	ail fiold indica	tor FC Dodov Dod	Curtage	ad antiafiaa	the coile	aritarian	
Triis profile ext	iibits riyuric s	on neid indica	itor F6, Redox Dark	Surface, ai	iu sausiies	uie sons	Citterion.	
	~v							
HYDROLOG	<b>3</b> 1							
Wetland Hydro	ology Indicat	ors:						
Primary Indicate	ors (minimum	of one is require	ed; check all that appl	y)			Secondary Indica	tors (minimum of two required
Surface Wa	iter (A1)		☐ Water-S	tained Leaves	s (B9)		Surface Soil C	Cracks (B6)
High Water	Table (A2)		•	Fauna (B13)			☐ Drainage Patt	terns (B10)
Saturation (	(A3)		True Aq	uatic Plants (I	B14)		☐ Dry Season W	/ater Table (C2)
☐ Water Mark	(S (B1)		Hydroge	en Sulfide Odo	or (C1)		Crayfish Burro	ows (C8)
Sediment D	eposits (B2)		Oxidized	l Rhizosphere	s on Living I	Roots (C3)	Saturation Vis	sible on Aerial Imagery (C9)
☐ Drift Deposi	its (B3)		Presence	e of Reduced	Iron (C4)		Stunted or St	ressed Plants (D1)
Algal Mat o	r Crust (B4)		Recent I	Iron Reductio	n in Tilled S	oils (C6)	<b>✓</b> Geomorphic F	Position (D2)
☐ Iron Deposi	its (B5)		☐ Thin Mu	ck Surface (C	. <del>7</del> )		✓ FAC-Neutral 1	Test (D5)
Inundation	Visible on Aeri	al Imagery (B7)	Gauge o	or Well Data (	D9)			
Sparsely Ve	egetated Conca	ve Surface (B8)	Other (E	Explain in Ren	narks)			
			_ `	•	,			
Field Observat	tions:							
Surface Water P	Present?	Yes O No	Depth	(inches):		_		
Water Table Pre	sent?	Yes O No	Depth	(inches):		_		
Saturation Prese				(inches):			land Hydrology Present?	Yes   No
(includes capilla		Yes O No	Depth	(inches):		_		
		ream gauge,	monitoring well, ae	rial photos,	previous ir	nspection	s), if available:	
Remarks:								
	of two secon	dary wetland	hydrology indicators	s satisfies tl	ne hydrolog	av criterio	าท	
The presence	J. 1440 JCC011	aary wedana	i, arology maicator.	J JAGJIRG U	ic riyarolog	97 0110110	,,,,	
ĺ								

Project/Site: 1960 & 2000 Lucent Ln and	Vacant Prop to NW	City	y/County: N	laperville/Du	ıPage	Sampling Date:	22-Apr-19
Applicant/Owner: Lincoln Property Compa	any Commercial Inc.			State:	IL Sampli	ng Point:	X08
Investigator(s): A. Metzger, D. Jablonski		S	Section, Towns	hip, Range:	s 5 T 38N	R 10E	
Landform (hillslope, terrace, etc.): Flat			Lo	ocal relief (c	oncave, convex, none): f	 lat	_
	11 010220			•	· · · · · ·	Datum: NAD	) 1983
			Long.:8	8.121/5	NDAG alassificati		7 1303
Soil Map Unit Name: <u>Orthents, clayey</u>		- Voc (	• No O	/16	NWI classificat	on: None	
Are climatic/hydrologic conditions on the s					plain in Remarks.)	ent? Yes	No O
		gnificantly dist		Are "No	rmal Circumstances" prese	ent? Yes	● No ○
		aturally proble		•	ded, explain any answers i		
SUMMARY OF FINDINGS - At	<u> </u>	ving samp	Jing point	liocatioi	is, transects, impo	Triant reatures	., etc.
Hydrophytic Vegetation Present?	Yes • No O		Ts the	Sampled A	rea		
Hydric Soil Present?	Yes • No O			a Wetland			
Wetland Hydrology Present?	Yes   No						
Remarks: This location satisfies all three criter  VEGETATION - Use scien	· 	ts.	Dominant		maintianed turf grass fi		
_Tree Stratum_(Plot size: 30 feet	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status			
1		0	0.0%		Number of Dominant Sp That are OBL, FACW, or		1 (A)
2.		0	0.0%				
3		0	0.0%		Total Number of Domina Species Across All Strata		1 (B)
4			0.0%				
5			0.0%		Percent of dominant That Are OBL, FACW,		0.0% (A/B)
_Sapling/Shrub Stratum (Plot size: 15 f	eet \	0	= Total Cover	•			
		0	0.0%		Prevalence Index wor		
1 2.		_	0.0%		Total % Cover of OBL species	of: Multiply b $0 x 1 =$	0
3.		0	0.0%		FACW species	0 x 2 =	0
4.		0	0.0%				210
5.		0	0.0%		FACU species	0 x 4 =	0
Herb Stratum (Plot size: 5 feet	)	0	= Total Cover		UPL species	0 x 5 =	0
1 Poa pratensis		70	<b>✓</b> 100.0%	FAC	Column Totals:	70 (A)	210 (B)
2.		0	0.0%	1710			
3.		0	0.0%		Prevalence Index		.000_
4.		0	0.0%		Hydrophytic Vegetation		
5		0	0.0%		1 - Rapid Test for		ation
6		0	0.0%		✓ 2 - Dominance Tes		
7		0	0.0%		3 - Prevalence Ind		
8			0.0%		4 - Morphological data in Remarks o	r on a separate sh	eet)
9			0.0%		Problematic Hydro	-	-
10			0.0%		$\frac{1}{2}$ Indicators of hydric	soil and wetland	hydrology must
<u>Woody Vine Stratum</u> (Plot size: 5 feet	t)	70	= Total Cover		be present, unless dis	turbed or problem	natic.
1,		0	0.0%				
2		0	0.0%		Hydrophytic Vegetation		
		0	= Total Cover		Present? Yes	No	
Remarks: (Include photo numbers h	nere or on a separate sh	neet.)					
The dominant species is hydrophytic	•	,	sfied; howeve	er, Data Po	oint X08 is a maintained	l turf grass field.	
	<b>-</b>					-	

Profile Description: (Des Depth	Matrix			lox Featu	ires		_			
(inches) Color (r		%	Color (moist)	_%	Type 1	Loc2	Texture			emarks
0-4 10YR	2/1						Silt Loam	Mi xed	Fill	
4-10 10YR	6/1		10YR 5/6	10			Silty Clay Loam	Mi xed	Fill	
	=Depletion,	RM=Reduce	ed Matrix, CS=Cover	ed or Coat	ted Sand Gr	ains.	<sup>2</sup> Location: PL=Pore	Lining. M=Mat	rix.	
Hydric Soil Indicators:			· · · · · · · · · · · · · · · · · · ·				Indicators for P			Soils <sup>3</sup> :
Histosol (A1)			Sandy Gleyed	Matrix (S	4)				.,	
Histic Epipedon (A2)			Sandy Redox	(S5)			Coast Prairie	` ,		
Black Histic (A3)			Stripped Matr	ix (S6)			Dark Surface	. ,		
Hydrogen Sulfide (A4)			Loamy Mucky	. ,	=1)		☐ Iron Mangane	se Masses (F1	12)	
Stratified Layers (A5)			Loamy Gleyed	-	-		Very Shallow	Dark Surface (	(TF12)	
2 cm Muck (A10)			✓ Depleted Mat	-	-/		Other (Explain	n in Remarks)		
Depleted Below Dark S	Surface (A11	.)	Redox Dark S	. ,	`					
Thick Dark Surface (A1	12)		Depleted Dark	`	,		3			
Sandy Muck Mineral (S	61)		Redox Depres		` '		3 Indicators of hy	drophytic veg rology must b	etation	and
5 cm Mucky Peat or Pe	eat (S3)		□ Redox Depres	SIONS (F8)				urbed or probl		
estrictive Layer (if obse	erved):									
Type:									_	_
									< >	
	ic soil field	indicator F	=3, Depleted Matri	x, and sa	itisfies the	soils crite	Hydric Soil Prese	nt? Yes	<u>•                                    </u>	No O
Remarks:	ic soil field	indicator F		x, and sa	itisfies the	soils crite		nt? Yes	<u> </u>	No ○
Remarks: nis profile exhibits hydri	ic soil field	indicator F		x, and sa	itisfies the	soils crite		nt? Yes		No O
Remarks: his profile exhibits hydri YDROLOGY Vetland Hydrology India	cators:			x, and sa	itisfies the	soils crite	erion.			
Remarks:  nis profile exhibits hydri  YDROLOGY  Vetland Hydrology Indie  Primary Indicators (minimu	cators:		heck all that apply)			soils crite	Secondary	(Indicators (mir	nimum	of two required
Primary Indicators (minimu  Surface Water (A1)	<b>cators:</b> um of one is		heck all that apply)	ed Leaves		soils crite	Secondary i	Indicators (mir Soil Cracks (B	nimum 36)	
YDROLOGY  Vetland Hydrology Indicators (minimum Surface Water (A1)  High Water Table (A2)	<b>cators:</b> um of one is		heck all that apply)   Water-Stain  Aquatic Fau	ed Leaves na (B13)	(B9)	soils crite	Secondary Surface	Indicators (mir Soil Cracks (B e Patterns (B1	nimum 36)	of two required
YDROLOGY  Yetland Hydrology Indic  Trimary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<b>cators:</b> um of one is		neck all that apply)  Water-Stain  Aquatic Fau  True Aquati	ed Leaves na (B13) c Plants (E	(B9) 314)	soils crite	Secondary Surface Drainag Dry Sea	Indicators (mir Soil Cracks (B e Patterns (B1 Ison Water Tal	nimum 36) L0) ble (C2)	of two required
YDROLOGY  Vetland Hydrology Indicators (Minimum Indicators (Minimu	<b>cators:</b> um of one is		neck all that apply)  Water-Stain Aquatic Fau True Aquati	ed Leaves na (B13) c Plants (E ulfide Odo	(B9) B14) or (C1)		Secondary   Surface Drainag Dry Sea	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8)	nimum 36) 10) ble (C2)	of two required
YDROLOGY  Yetland Hydrology Indice  rimary Indicators (minimumary Indicators (minimumary Indicators (Male Mater Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	<b>cators:</b> um of one is		heck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres	(B9) 314) or (C1) s on Living F		Secondary :  Surface Drainag Dry Sea Crayfish Saturati	Indicators (mir Soil Cracks (B e Patterns (B1 Ison Water Tal I Burrows (C8)	nimum 36) L0) ble (C2)	of two required ) magery (C9)
YDROLOGY  Yetland Hydrology India  rimary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	cators: um of one is		heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced	(B9) 314) or (C1) s on Living F Iron (C4)	Roots (C3)	Secondary :  Surface Drainag Dry Sea Crayfish Saturati	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8)	nimum 36) L0) ble (C2)	of two required ) magery (C9)
YDROLOGY  Yetland Hydrology Indice  rimary Indicators (minimumary Indicators (minimumary Indicators (Male Mater Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	cators: um of one is		heck all that apply)  Water-Stain Aquatic Fau True Aquati Hydrogen S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced	(B9) 314) or (C1) s on Living F Iron (C4)	Roots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position (	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
Primary Indicators (minimumary Indicators (mi	cators: um of one is		heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So	Roots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 Ison Water Tal Burrows (C8) on Visible on <i>I</i> or Stressed P	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
YDROLOGY  Yetland Hydrology India  Irimary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	cators: um of one is 2)	required; cl	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So 7)	Roots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position (	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
YDROLOGY  Vetland Hydrology India  Irimary Indicators (minimu  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)	cators: um of one is 2) Aerial Image	required; ch	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (Ci ell Data (I	(B9) B14) or (C1) s on Living F Iron (C4) or in Tilled So 7)	Roots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position (	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
YDROLOGY  Vetland Hydrology Indice  Verland	cators: um of one is 2) Aerial Image	required; ch	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reduction Surface (Ci ell Data (I	(B9) B14) or (C1) s on Living F Iron (C4) or in Tilled So 7)	Roots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position (	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
Prince Property (Page 1988)  YDROLOGY  Vetland Hydrology Indice Primary Indicators (minimus 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 A Sparsely Vegetated Control (B4)  Field Observations:	cators: um of one is 2) Aerial Image	ery (B7) ce (B8)	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)	Roots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position (	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
Profile exhibits hydring	cators: um of one is 2) Aerial Image oncave Surfa	ery (B7) ce (B8)	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C' ell Data (I ain in Rem	(B9) B14) or (C1) s on Living F Iron (C4) or in Tilled So 7) D9) harks)	coots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position (	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9) D1)
Prince Property (Page 1988)  YDROLOGY  Vetland Hydrology Indice Primary Indicators (minimus 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 A Sparsely Vegetated Control (B4)  Field Observations:	cators: um of one is  2)  Aerial Image oncave Surfa  Yes  Yes	ery (B7) ce (B8)  No O	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl.	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I eli Data (I elinain in Rem	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)	coots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position ( utral Test (D5)	nimum 36) 10) ble (C2) Aerial In Aerial I	of two required ) magery (C9)
YDROLOGY  Vetland Hydrology India Primary Indicators (minimu  ✓ 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 A  Sparsely Vegetated Considerations: Surface Water Present? Staturation Present? Staturation Present? Sincludes capillary fringe)	cators: um of one is 2) Aerial Image uncave Surfa  Yes Yes Yes	ery (B7) ce (B8)  No  No  No  No	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl.)	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I ain in Rem	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So (7) (29) harks)	coots (C3) bils (C6)  Wetl	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi FAC-Ne	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position ( utral Test (D5)	nimum 36) 10) ble (C2) Aerial II Plants (I (D2)	of two required ) magery (C9) D1)
Property Pr	cators: um of one is 2) Aerial Image uncave Surfa  Yes Yes Yes	ery (B7) ce (B8)  No  No  No  No	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl.)	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I ain in Rem	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So (7) (29) harks)	coots (C3) bils (C6)  Wetl	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi FAC-Ne	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position ( utral Test (D5)	nimum 36) 10) ble (C2) Aerial II Plants (I (D2)	of two required ) magery (C9) D1)
YDROLOGY  Vetland Hydrology India  Variance 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 A  Sparsely Vegetated Con  ield Observations:  urface Water Present?  vater Table Present?  aturation Present?  aturation Present?  ncludes capillary fringe)	cators: um of one is 2) Aerial Image uncave Surfa  Yes Yes Yes	ery (B7) ce (B8)  No  No  No  No	heck all that apply)  Water-Stain  Aquatic Fau  True Aquati  Hydrogen S  Oxidized Rh  Presence of  Recent Iron  Thin Muck S  Gauge or W  Other (Expl.)	ed Leaves na (B13) c Plants (E ulfide Odo izospheres Reduced Reductior Surface (C ell Data (I ain in Rem	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So (7) (29) harks)	coots (C3) bils (C6)  Wetl	Secondary Surface Drainag Dry Sea Crayfish Saturati Stunted Geomoi FAC-Ne	Indicators (mir Soil Cracks (B e Patterns (B1 son Water Tal Burrows (C8) on Visible on A or Stressed P phic Position ( utral Test (D5)	nimum 36) 10) ble (C2) Aerial II Plants (I (D2)	of two required ) magery (C9) D1)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/C	ounty: Napervill	le/DuPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.		St	ate: IL Sampling Point: X09
Investigator(s): _A. Metzger, D. Jablonski	Sect	ion, Township, Rai	nge: S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Flat		Local reli	ef (concave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.818008		Long.: -88.1224	Datum: NAD 1983
Soil Map Unit Name: Orthents, clayey (805B)		9.1 00.122	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	year? Yes •	No O (If no	o, explain in Remarks.)
	gnificantly distur		e "Normal Circumstances" present?
			Tromai circumstances present.
Are Vegetation, Soil, or Hydrology n SUMMARY OF FINDINGS - Attach site map show	aturally problema	,	needed, explain any answers in Remarks.)  tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes  No O		T	
Hydric Soil Present? Yes  No		Is the Sample	
Wetland Hydrology Present? Yes  No		within a Wet	land? Yes   No
Remarks:			
This location satisfies all three criteria and qualifies as wetl	and however	Data Point X09 i	is a maintianed turf grass field
The receipt of the same of the same qualified at the same of the s	,		o a mamaanoa tan grass notal
<b>VEGETATION -</b> Use scientific names of plan		ominant pecies? ———	
To (District 20 foot	Absolute R	el.Strat. Indica	
Tree Stratum (Plot size: 30 feet )	<u>% Cover</u>	Cover Statu 0.0%	Number of Dominant Species
1 2		0.0%	That are OBL, FACW, or FAC: (A)
3		0.0%	Total Number of Dominant
4		0.0%	Species Across All Strata: 1 (B)
5.	0	0.0%	Percent of dominant Species That are ORI FACW or FAC: 100.0% (A/B)
	= -	Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
<u>Sapling/Shrub Stratum (</u> Plot size: 15 feet )			Prevalence Index worksheet:
1		0.0%	Total % Cover of: Multiply by:
2		0.0%	OBL species $0 \times 1 = 0$
1		0.0%	FACW species $0 \times 2 = 0$ FAC species $20 \times 3 = 60$
5.	0 🗆	0.0%	FAC species 20 x 3 = 60 FACU species 0 x 4 = 0
		Total Cover	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Herb Stratum (Plot size: 5 feet )		100.00/ 510	
1_Poa pratensis	20 🗸	100.0% FAC 0.0%	
2. 3.		0.0%	Prevalence Index = B/A = 3.000
4		0.0%	Hydrophytic Vegetation Indicators:
5		0.0%	1 - Rapid Test for Hydrophytic Vegetation
6.	0	0.0%	2 - Dominance Test is > 50%
7	_0	0.0%	3 - Prevalence Index is ≤3.0 ¹
8	0_ □	0.0%	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
9. 10.		0.0%	☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0 📙	0.0%	
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u> )	= 1	Total Cover	be present, unless disturbed or problematic.
1,	0 🗆	0.0%	_
2	_0	0.0%	Hydrophytic Vegetation
	=	Total Cover	Present? Yes  No
Remarks: (Include photo numbers here or on a separate sl	•		
The dominant species is hydrophytic, so the vegetation crit	erion is satisfie	d; however, Dat	a Point X09 is a maintained turf grass field.

Depth	Matrix	are acpui il		lox Featu		un	e absence of indicators	~,	
	or (moist)	%	Color (moist)	<u>%</u>	Type 1	Loc2	Texture		Remarks
0-6 10YF	2/1						Silty Clay Loam	Mixed Fil	I
6-10 10YF	5/1		10YR 5/6	15			Silty Clay Loam	Mixed Fil	I
	-								
Type: C=Concentratio  Hydric Soil Indicato	•	n, RM=Reduc	ed Matrix, CS=Cover	ed or Coa	ted Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lin		3
Histosol (A1)	13.		Sandy Gleyed	Matrix (S	4)		Indicators for Pro	blematic Hyd	ric Soils <sup>3</sup> :
Histic Epipedon (A	2)		Sandy Redox	•	7)		Coast Prairie Re	dox (A16)	
Black Histic (A3)	-)		_ ′	. ,			☐ Dark Surface (S	7)	
Hydrogen Sulfide	A4)		Stripped Matr		-43		☐ Iron Manganese	Masses (F12)	
Stratified Layers (	-		Loamy Mucky	-			Very Shallow Da	rk Surface (TF:	12)
2 cm Muck (A10)	,		Loamy Gleyed	-	<del>-</del> 2)		Other (Explain i	•	,
_ ` ` '	ork Curtoss /A	11\	✓ Depleted Mat	. ,			□ Oulei (Explain II	i nemarks)	
Depleted Below D	,	11)	Redox Dark S	urface (F6	5)				
Thick Dark Surface	` '		Depleted Dar	k Surface	(F7)		<sup>3</sup> Indicators of hydr	ophytic vegeta	tion and
Sandy Muck Miner  5 cm Mucky Peat of	. ,		Redox Depres	sions (F8)	)		wetland hydro	logy must be problemated	esent,
Restrictive Layer (if								, ca c. p. c	
Type:	•								
Depth (inches):							Hydric Soil Present	? Yes ●	No 🔾
Remarks:									
HYDROLOGY									
Wetland Hydrology			lead all that and N				Consider Too	Part of Artistan	
Primary Indicators (mi		is requirea; c							um of two required
Surface Water (A1	•		☐ Water-Stain		s (B9)		Surface So	oil Cracks (B6)	
High Water Table	(A2)		Aquatic Fau	. ,				Patterns (B10)	
✓ Saturation (A3)			True Aquati	c Plants (E	314)		☐ Dry Seaso	n Water Table	(C2)
Water Marks (B1)			Hydrogen S	ulfide Odo	or (C1)		Crayfish B	urrows (C8)	
Sediment Deposits	(B2)		Oxidized Rh	izosphere	s on Living F	Roots (C3)	☐ Saturation	Visible on Aeri	al Imagery (C9)
Drift Deposits (B3)			Presence of		_	, ,		r Stressed Plant	
Algal Mat or Crust			=		n in Tilled So	oils (C6)		nic Position (D2)	• •
Iron Deposits (B5)			☐ Thin Muck 9			3113 (60)		al Test (D5)	,
		aom. (D7)		•	•		TAC-Neud	ai Test (D3)	
Inundation Visible			Gauge or W	•	•				
Sparsely Vegetate	d Concave Sur	face (B8)	U Other (Expl	ain in Rem	narks)				
Field Observations:									
Surface Water Present			Depth (inc	thes):		-			
Water Table Present?	Yes	○ No ●	Depth (inc	ches):		_		V	No O
Saturation Present? (includes capillary fring	e) Yes	● No ○	Depth (inc	thes):	0	_   Wet	land Hydrology Presen	t? Yes 🧐	NO C
Describe Recorded D		gauge, mon	itoring well, aerial	photos,	previous ir	spections	s), if available:		
Remarks:									
The soil was saturat	ed at the sur	face which s	satisfies the hydro	ogy crite	rion.				

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County: Naperville/Do	uPage Sampling Date: 22-Apr-19
Applicant/Owner: _Lincoln Property Company Commercial Inc.	State:	IL Sampling Point: X10
Investigator(s): A. Metzger, D. Jablonski	Section, Township, Range:	S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Swale	Local relief (c	oncave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.81837	Long.: -88.12071	
	Long00.120/1	
Soil Map Unit Name: Orthents, clayey (805B)	2 Ves No (If no ov	NWI classification: None plain in Remarks.)
Are climatic/hydrologic conditions on the site typical for this time of		, , , , , , , , , , , , , , , , , , ,
		initial circumstances present.
Are Vegetation U , Soil U , or Hydrology U r  SUMMARY OF FINDINGS - Attach site map sho		ded, explain any answers in Remarks.)  ns. transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		,,
Hydric Soil Present? Yes No •	Is the Sampled A	
,	within a Wetland	I? Yes ○ No •
Wetland Hydrology Present? Yes No No Remarks:		
This location fails the soils criterion and does not qualify a  VEGETATION - Use scientific names of plan	nts. Dominant Species?	Device and Test we derive to
<u>Tree Stratum</u> (Plot size: 30 feet )	Absolute Rel.Strat. Indicator % Cover Cover Status	Dominance Test worksheet:
1. Populus deltoides	10 🗹 100.0% FAC	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2.	0 0.0%	
3	0 000	Total Number of Dominant Species Across All Strata: 2 (B)
4	0 0.0%	
5	0 0.0%	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
(D) 1 1 1 foot	= Total Cover	That Are ODE, FACW, OF FAC.
Sapling/Shrub Stratum (Plot size: 15 feet )		Prevalence Index worksheet:
1	0 000	Total % Cover of: Multiply by:
2	0 0.0%	OBL species 0 x 1 = 0 FACW species 90 x 2 = 180
1	0 0.0%	FACW species 90 x 2 = 180 FAC species 10 x 3 = 30
5.	0 0.0%	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 5 feet )	0 = Total Cover	UPL species 0 x 5 = 0
	90 🗹 100.0% FACW	Column Totals: (A) (B)
1_Phragmites australis 2.	0 0.0%	
2	0 000	Prevalence Index = B/A = 2.100
4.		Hydrophytic Vegetation Indicators:
5.	0 000	1 - Rapid Test for Hydrophytic Vegetation
6.		2 - Dominance Test is > 50%
7	0 0.0%	<b>3</b> - Prevalence Index is ≤3.0 ¹
8		<ul> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
9		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0 0.0%	$rac{1}{2}$ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )	90 = Total Cover	be present, unless disturbed or problematic.
1,	0 0.0%	
2.	0 0.0%	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate s All of the dominant species are hydrophytic, so the vegeta	,	

Depth	Matrix	Red	ox Features			
(inches) Color (m	noist) %	Color (moist)	<u>% Type</u> <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4						Silty Gravel
4+						impervious pavement
Гуре: C=Concentration, D=	Depletion, RM=Rec	luced Matrix, CS=Covere	ed or Coated Sand Gra	ains.	<sup>2</sup> Location: PL=Pore	Lining. M=Matrix.
lydric Soil Indicators:					Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Gleyed			Coast Prairie	Redox (A16)
Histic Epipedon (A2)		Sandy Redox (	•		☐ Dark Surface	` '
☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4)		Stripped Matri	. ,			ese Masses (F12)
Stratified Layers (A5)		Loamy Mucky			_	Dark Surface (TF12)
2 cm Muck (A10)		Loamy Gleyed	` '		Other (Explain	• •
Depleted Below Dark Si	urface (A11)	☐ Depleted Matr	` '		Other (Explain	i in remarks)
Thick Dark Surface (A12	` '	Redox Dark Su	` '		2	
Sandy Muck Mineral (Si	•	Depleted Dark	` '			drophytic vegetation and rology must be present,
5 cm Mucky Peat or Pea	-	Redox Depress	SIONS (F8)			urbed or problematic.
estrictive Layer (if obse	erved):					
Туре:						0 0
Depth (inches):					Hydric Soil Prese	nt? Yes ○ No ●
			the soils criterion is	s not satis		nt? Yes No •
Depth (inches):Remarks:			the soils criterion is	s not satis		nt? Yes ○ No •
Depth (inches): Remarks: ne soil in this location do			the soils criterion is	s not satis		nt? Yes O No •
Depth (inches):Remarks: ne soil in this location do  YDROLOGY	oes not meet a hy		the soils criterion is	s not satis		nt? Yes O No •
Depth (inches):Remarks:	pes not meet a hy	dric soil indicator, so	the soils criterion is	s not satis	ified.	nt? Yes No •
Depth (inches):	pes not meet a hy	dric soil indicator, so	the soils criterion is	s not satis	Secondary	
Depth (inches):	pes not meet a hy	dric soil indicator, so	ed Leaves (B9)	s not satis	Secondary	Indicators (minimum of two require
Depth (inches):	pes not meet a hy	dric soil indicator, so  ; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (B9)	s not satis	Secondary Surface Drainag	Indicators (minimum of two require Soil Cracks (B6)
Depth (inches):  Remarks: The soil in this location do  YDROLOGY  Vetland Hydrology Indic  Primary Indicators (minimus  Surface Water (A1)  High Water Table (A2)	pes not meet a hy	dric soil indicator, so  ; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (B9) na (B13)	s not satis	Secondary Surface Drainag Dry Sez	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10)
Depth (inches):	pes not meet a hy cators: m of one is required	; check all that apply)  Water-Staine Aquatic Faur Hydrogen St	ed Leaves (B9) na (B13) c Plants (B14)		Secondary: Surface Drainag Dry Sea	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	pes not meet a hy cators: m of one is required	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1)		Secondary Surface Drainag Dry Sea Crayfish Saturat	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
Depth (inches):  Demarks: The soil in this location do  TyDROLOGY  Vetland Hydrology Indicators (minimum I	cators:  m of one is required	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Depth (inches):  Remarks: The soil in this location do  PyDROLOGY  Vetland Hydrology Indic  Primary Indicators (minimul  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)	pes not meet a hy eators: m of one is required	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	ed Leaves (B9) na (B13) t Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) i Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Depth (inches):  Remarks: The soil in this location do  Primary Indicators (minimul  Formary Indicator	cators: m of one is required	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves (B9) na (B13) t Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Depth (inches):  Remarks: The soil in this location do  PyDROLOGY  Vetland Hydrology Indic  Primary Indicators (minimul  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)	cators: m of one is required	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Pepth (inches):  Remarks: The soil in this location do  Primary Indicators (minimur  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 A  Sparsely Vegetated Cor	cators: m of one is required	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9)	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Pepth (inches):  Remarks: The soil in this location do  YDROLOGY  Vetland Hydrology Indice  Primary Indicators (minimum  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 A  Sparsely Vegetated Core  rield Observations:	cators: m of one is required  erial Imagery (B7) ncave Surface (B8)	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (B9) na (B13) t Plants (B14) ulfide Odor (C1) tzospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) nin in Remarks)	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Pepth (inches):  Remarks: The soil in this location do  Primary Indicators (minimur  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 A  Sparsely Vegetated Cor	cators: m of one is required  erial Imagery (B7) neave Surface (B8)	; check all that apply)    Water-Staine   Aquatic Faur   True Aquatic Hydrogen St.   Oxidized Rhi   Presence of   Recent Iron   Thin Muck S   Gauge or We   Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9)	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (minimum of two require Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) rphic Position (D2)
Pepth (inches):  Remarks: The soil in this location do  YDROLOGY  Vetland Hydrology Indice  Primary Indicators (minimum  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 A  Sparsely Vegetated Core  rield Observations:	cators: m of one is required  erial Imagery (B7) ncave Surface (B8)	; check all that apply)    Water-Staine   Aquatic Faur   True Aquatic Hydrogen St.   Oxidized Rhi   Presence of   Recent Iron   Thin Muck S   Gauge or We   Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) ain in Remarks) hes):1	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon	Indicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2) utral Test (D5)
Depth (inches):  Remarks: The soil in this location do  Primary Indicators (minimur  Formary Indicators (Mal)  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 A  Sparsely Vegetated Cor  Field Observations:  Formary Indicators (Mal)  Fo	cators: m of one is required  erial Imagery (B7) neave Surface (B8)	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) ain in Remarks) hes):  1 hes):	oots (C3)	Secondary Surface Drainag Dry Sea Crayfish Saturat Stunted Geomo	Indicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2) utral Test (D5)
Depth (inches):  Remarks: The soil in this location do  Primary Indicators (minimul  Primary Indicators (minimul  Primary Indicators (minimul  Primary Indicators (minimul  Primary Indicators (Mal)  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 A  Sparsely Vegetated Cor  Field Observations:  urface Water Present?  Water Table Present?  aturation Present?  aturation Present?	pes not meet a hy  cators: m of one is required  erial Imagery (B7) neave Surface (B8)  Yes No Yes No	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) zospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) sin in Remarks) hes): hes): hes):	oots (C3) iils (C6)  Wetla	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2) utral Test (D5)
Depth (inches):  Remarks: The soil in this location do  Primary Indicators (minimur  Formary Indicators (Mal)  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 A  Sparsely Vegetated Cor  Field Observations:  Formary Indicators (Mal)  Fo	pes not meet a hy  cators: m of one is required  erial Imagery (B7) neave Surface (B8)  Yes No Yes No	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) zospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) sin in Remarks) hes): hes): hes):	oots (C3) iils (C6)  Wetla	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2) utral Test (D5)
Pepth (inches):  Remarks: The soil in this location do  Primary Indicators (minimur  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 A  Sparsely Vegetated Cor  Field Observations:  urface Water Present?  Water Table Present?  aturation Present?  includes capillary fringe)  escribe Recorded Data (	pes not meet a hy  cators: m of one is required  erial Imagery (B7) neave Surface (B8)  Yes No Yes No	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) zospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) sin in Remarks) hes): hes): hes):	oots (C3) iils (C6)  Wetla	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2) utral Test (D5)
Depth (inches):  Remarks: The soil in this location do  Primary Indicators (minimul  Primary Indicators (minimul  Primary Indicators (minimul  Primary Indicators (minimul  Primary Indicators (Mal)  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 A  Sparsely Vegetated Cor  Field Observations:  urface Water Present?  Water Table Present?  aturation Present?  aturation Present?	cators: m of one is required  erial Imagery (B7) neave Surface (B8)  Yes No Yes No Yes No (stream gauge, m	; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9) na (B13) c Plants (B14) ulfide Odor (C1) izospheres on Living R Reduced Iron (C4) Reduction in Tilled So urface (C7) ell Data (D9) nin in Remarks) hes): hes): hes): photos, previous in	oots (C3) iils (C6)  Wetla	Secondary: Surface Drainag Dry Sea Crayfish Saturat Stunted Geomon FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) aphic Position (D2) utral Test (D5)

Applicant/Owner: Lincoln Property Company Commercial Inc. Investigator(s): A. Metzger, D. Jablonski Landform (hillslope, terrace, etc.): Lowland		IL Sampling Point: X11
	Section Township Range	
		:S 5 T 38N R 10E
( 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		concave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.818247		
121020217	Long.: -88.118543	
Soil Map Unit Name: Orthents, clayey (805B)	Voc No No O	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of		xplain in Remarks.)
Are Vegetation	significantly disturbed? Are "No	ormal Circumstances" present? Yes   No
	•	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sampling point locatio	ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes • No •	Is the Sampled A within a Wetland	
Wetland Hydrology Present? Yes   No		165 - 116 -
Remarks: This location satisfies all three criteria and qualifies as we  VEGETATION - Use scientific names of pla	nts. <b>Dominant</b>	
205	Absolute Rel.Strat. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )	% Cover Cover Status	Number of Dominant Species
1. Ulmus americana		That are OBL, FACW, or FAC:2 (A)
Morus alba     Salix fragilis	5	Total Number of Dominant
1		Species Across All Strata:2 (B)
5	=	Percent of dominant Species
<u> </u>	30 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
_Sapling/Shrub Stratum (Plot size: 15 feet )		Prevalence Index worksheet:
1. Rhamnus cathartica	80 🗹 100.0% FAC	Total % Cover of: Multiply by:
2.	0 0.0%	OBL species $0 \times 1 = 0$
3.	0 0.0%	FACW species $20 \times 2 = 40$
4	0 0.0%	FAC species 90 x 3 = 270
5	0	FACU species
Herb Stratum (Plot size: 5 feet )	80 = Total Cover	UPL species <u>0</u> x 5 = <u>0</u>
1.	0	Column Totals:110 (A)310 (B)
2.	0 0.0%	Prevalence Index = B/A = 2.818
3.	0 0.0%	
4.	0 0.0%	Hydrophytic Vegetation Indicators:
5	0 0.0%	☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is > 50%
6		✓ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
7		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8		data in Remarks or on a separate sheet)
9 10.		☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0 0.0%	$\frac{1}{2}$ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )	0 = Total Cover	be present, unless disturbed or problematic.
1,		l
2		Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No
Remarks: (Include photo numbers here or on a separate state of the dominant species are hydrophytic, so the vegeta	•	

Profile Description: (De	Matrix	Red	ox Features			
(inches) Color (		Color (moist)	<u>%</u> _T	vpe <sup>1</sup> Loc	Texture	Remarks
0-20 10YR	2/1	10YR 5/6	10		Silty Clay Loam	
ype: C=Concentration, D	=Depletion, RM=Re	duced Matrix, CS=Covere	ed or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Pore Lini	ng. M=Matrix.
ydric Soil Indicators:					Indicators for Prol	olematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Gleyed	Matrix (S4)		Coast Prairie Red	lov (Δ16)
Histic Epipedon (A2)		Sandy Redox (	(S5)		Dark Surface (S7	• ,
☐ Black Histic (A3)		Stripped Matri	x (S6)		☐ Iron Manganese	•
Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (F1)		_	, ,
Stratified Layers (A5)		Loamy Gleyed	Matrix (F2)			rk Surface (TF12)
☐ 2 cm Muck (A10)		Depleted Matr	ix (F3)		Other (Explain in	Remarks)
Depleted Below Dark S	` '	✓ Redox Dark Su	ırface (F6)			
☐ Thick Dark Surface (A:	•	Depleted Dark	Surface (F7)		<sup>3</sup> Indicators of hydro	ophytic vegetation and
Sandy Muck Mineral (S	,	Redox Depress	sions (F8)		wetland hydrolo	ogy must be present,
☐ 5 cm Mucky Peat or Pe	eat (S3)				unless disturb	ed or problematic.
estrictive Layer (if obs	erved):					
Type:					-   Unidada Cadi Barananda	
Depth (inches):			face, and sa	atisfies the so	Hydric Soil Present?	Yes  No
Depth (inches):			face, and sa	atisfies the so		Yes  No
Depth (inches):emarks: ais profile exhibits hydr			face, and s	atisfies the so		Yes  No
Depth (inches):emarks: is profile exhibits hydr	ic soil field indica		face, and s	atisfies the so		Yes  No
Depth (inches):emarks: his profile exhibits hydroughter  YDROLOGY  Vetland Hydrology Indi	ic soil field indica	tor F6, Redox Dark Sui	face, and s	atisfies the so	ils criterion.	Yes No C
Depth (inches):emarks:is profile exhibits hydrough YDROLOGY	ic soil field indica	tor F6, Redox Dark Sur	face, and sa		ils criterion.	
Depth (inches):emarks: ais profile exhibits hydromorphisms for the profile exhib	ic soil field indicated indicated in the soil field in	tor F6, Redox Dark Sur	ed Leaves (B9		ils criterion.  Secondary Ind	icators (minimum of two required
Depth (inches):  Demarks: Demarks: Dis profile exhibits hydrology  Metland Hydrology Indiviruary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)	ic soil field indicated indicated in the soil field in	tor F6, Redox Dark Sur  d; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (B9	))	Secondary Ind Surface So Drainage P	icators (minimum of two required il Cracks (B6)
Depth (inches):  Demarks: Demarks: Dis profile exhibits hydrology  Metland Hydrology Indiviruary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)	ic soil field indicated indicated in the soil field in	tor F6, Redox Dark Sur  d; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (B9	9)	Secondary Ind Surface So Drainage P Dry Seasor	icators (minimum of two required il Cracks (B6) latterns (B10)
Depth (inches):  demarks: his profile exhibits hydrology  YDROLOGY  Vetland Hydrology Indicators (minimary Indicat	ic soil field indical cators: um of one is require	d; check all that apply)  Water-Staine Aquatic Faur Hydrogen St	ed Leaves (B9 na (B13) : Plants (B14) ulfide Odor (C	2)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu	icators (minimum of two required il Cracks (B6) latterns (B10) n Water Table (C2) urrows (C8)
Pepth (inches):  Jemarks:	ic soil field indical cators: um of one is require	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su	ed Leaves (B9 na (B13) : Plants (B14) ulfide Odor (C zospheres on	2) :1) Living Roots (C	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
pepth (inches): emarks: his profile exhibits hydrology  YDROLOGY  Yetland Hydrology Indirimary Indicators (minimary Indicators (Minimar	cators:  um of one is require	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	ed Leaves (B9 na (B13) : Plants (B14) ulfide Odor (C zospheres on Reduced Iron	2) (1) Living Roots (0	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
pepth (inches): emarks: iis profile exhibits hydr  YDROLOGY  Yetland Hydrology Indi rimary Indicators (minimal) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	cators:  um of one is require	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	ed Leaves (B9 na (B13) : Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in	2) :1) Living Roots (C	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  Remarks:  Inis profile exhibits hydrology  Vetland Hydrology Individual Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	cators:  um of one is require	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves (B9 na (B13) : Plants (B14) ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7)	2) (1) Living Roots (0	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  Remarks: his profile exhibits hydrology  Yetland Hydrology Individual I	cators: um of one is require  Aerial Imagery (B7)	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (89) na (813) : Plants (814) ulfide Odor (Coospheres on Reduced Iron Reduction in urface (C7) ell Data (D9)	C1) Living Roots (C I (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  Demarks:	cators: um of one is require  Aerial Imagery (B7)	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (B9 na (B13) : Plants (B14) ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7)	C1) Living Roots (C I (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  Remarks:  his profile exhibits hydrology  YDROLOGY  Vetland Hydrology Indicators (minimary Indica	cators: um of one is require  Aerial Imagery (B7)	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (89) na (813) : Plants (814) ulfide Odor (Coospheres on Reduced Iron Reduction in urface (C7) ell Data (D9)	C1) Living Roots (C I (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  demarks: his profile exhibits hydrology  YDROLOGY  Yetland Hydrology Individual In	cators: um of one is require  2) Aerial Imagery (B7) oncave Surface (B8)	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (B9 na (B13) : Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks	C1) Living Roots (C I (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  Remarks: his profile exhibits hydrology  Vetland Hydrology Individual Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on A Sparsely Vegetated Complete Sp	cators:  um of one is require  2)  Aerial Imagery (B7)  concave Surface (B8)	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9 na (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks	C1) Living Roots (C I (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Depth (inches):  Remarks:  Inis profile exhibits hydrology  Vetland Hydrology Individual Primary Indicators (minimal Primary Indicators (minim	cators: um of one is require  2)  Aerial Imagery (B7) concave Surface (B8)  Yes	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	ed Leaves (B9 na (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks	C1) Living Roots (Ca) (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	icators (minimum of two required il Cracks (B6) tatterns (B10) in Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Depth (inches):  Remarks:  nis profile exhibits hydrology  Vetland Hydrology Indiversity  Primary Indicators (minimal of the second of the sec	cators: um of one is require  2)  Aerial Imagery (B7) concave Surface (B8)  Yes	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (89 na (813) : Plants (814) ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks hes):	C1) Living Roots (Ca) (C4) Tilled Soils (C6)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi	icators (minimum of two required il Cracks (B6) latterns (B10) in Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Depth (inches):  Remarks:  nis profile exhibits hydrology  Vetland Hydrology Indicators (minimal of the primary Indicator	cators: um of one is require  2)  Aerial Imagery (B7) Incave Surface (B8)  Yes \cap No Yes \cap No	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9 na (B13) : Plants (B14) ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks hes): hes):	C1) Living Roots (C1) C4) Tilled Soils (C6) S)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	icators (minimum of two required il Cracks (B6) tatterns (B10) in Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Depth (inches):  Remarks:  nis profile exhibits hydrology  Vetland Hydrology Indiversity  Primary Indicators (minimal of the second of the sec	cators: um of one is require  2)  Aerial Imagery (B7) Incave Surface (B8)  Yes \cap No Yes \cap No	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9 na (B13) : Plants (B14) ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks hes): hes):	C1) Living Roots (C1) C4) Tilled Soils (C6) S)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	icators (minimum of two required il Cracks (B6) tatterns (B10) in Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Depth (inches):  Remarks:  nis profile exhibits hydrology  Vetland Hydrology Indicators (minimal of the primary Indicator	cators: um of one is require  2)  Aerial Imagery (B7) Incave Surface (B8)  Yes \cap No Yes \cap No	d; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	ed Leaves (B9 na (B13) : Plants (B14) ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks hes): hes):	C1) Living Roots (C1) C4) Tilled Soils (C6) S)	Secondary Ind Surface So Drainage P Dry Seasor Crayfish Bu Saturation Stunted or Geomorphi FAC-Neutra	icators (minimum of two required il Cracks (B6) tatterns (B10) in Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County	: Naperville/D	uPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.		State:	IL Sampling Point: X12
Investigator(s): A. Metzger, D. Jablonski	Section, T	ownship, Range:	S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Flat		Local relief (c	concave, convex, none): flat
Slope:	Long	 ∴ -88.116662	
Soil Map Unit Name: Peotone silty clay loam (330A)		00:110002	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of y	aar? Yes • No	(If no. ex	xplain in Remarks.)
	inificantly disturbed?		ormal Circumstances" present?
	turally problematic?		ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	, .	`	,
Hydrophytic Vegetation Present? Yes  No	T		
Hydric Soil Present? Yes ○ No •		the Sampled A	
Wetland Hydrology Present? Yes ○ No ●	W	ithin a Wetland	d? Yes ○ No
Remarks:			
This location fails the soils and hydrology criteria and does	not qualify as wetla	nd.	
iceason raile and cond and, arology ontains and acco	iot quam, as meau		
<b>VEGETATION -</b> Use scientific names of plan	S. Domin		
_Tree Stratum_(Plot size: 30 feet )	Absolute Rel.Str	at. Indicator	Dominance Test worksheet:
	<u>% Cover Cove</u> 0		Number of Dominant Species That are OBL. FACW, or FAC: 2 (A)
1. 2.	0 0.0		That are OBL, FACW, or FAC: (A)
3	0 0.0		Total Number of Dominant Species Across All Strata: 3 (B)
4.	0.0	%	Species Across Air Strata.
5	0 0.0	%	Percent of dominant Species That Are ORL FACW or FAC: 66.7% (A/B)
_	0 = Total	Cover	That Are OBL, FACW, or FAC: 66.7% (A/B)
Sapling/Shrub Stratum (Plot size: 15 feet )			Prevalence Index worksheet:
1. Rhamnus cathartica		0% FAC	Total % Cover of: Multiply by:
2	0		OBL species 0 x 1 = 0 FACW species 0 x 2 = 0
4.	0 0.0		FACW species 0 x 2 = 0 FAC species 50 x 3 = 150
5.	0 0.0		FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 5 feet )	40 = Total	Cover	UPL species 40 x 5 = 200
1 Dipsacus laciniatus	40 🗹 80.0	1% UPL	Column Totals: 90 (A) 350 (B)
2. Symphyotrichum lanceolatum ssp. lanceolatum var. interior	10 20.0		
3.	0 0.0		Prevalence Index = B/A = 3.889
4	0 0.0		Hydrophytic Vegetation Indicators:
5	0.0	%	☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is > 50%
6	0 0.0	%	2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
7	0 0.0		□ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8. 9.	0		data in Remarks or on a separate sheet)
10	0		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	50 = Total		1 Indicators of hydric soil and wetland hydrology must
<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u> )			be present, unless disturbed or problematic.
1,	0 0.0		Hydrophytic
2	0 0.0		Vegetation
	0 = Total	Cover	Present? Yes No O
Domarks: (Include photo numbers have as an a constitute of	oot )		
Remarks: (Include photo numbers here or on a separate sh	,	ritorion is!	rfied
Greater than 50% of the dominant species are hydrophytic,	so the vegetation (	interiori is satis	oncu.

Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Sandy Gleyed Matrix (S4)  Coast  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (S6)  Depleted Matrix (F2)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Sedomer Muck Mineral (S1)  Sondy Redox Dark Surface (F6)  Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Sandy Muck Mineral (S1)  Redox Depressions (F8)  Wetting Soil Indicators  Restrictive Layer (if observed):  Type:  Depth (inches):  Hydric Soil  In Muck Mineral (S1)  Sedomer Muck Mineral (S1)  Sermarks:  The soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.  In Mydrogen Sulfide (A4)  Water-Stained Leaves (B9)  High Water Table (A2)  Mater Marks (B1)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)	ure Remarks
G-10 10YR 4/4 Stty Clay Lo    Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry Clay Lo   Stry	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2	pam
Histosol (A1)	pam
Histosol (A1)	
Histosol Indicators: Histosol (A1) Histoc Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Below Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Sem Muck Peat or Peat (S3) Trictive Layer (if observed): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): Darks: Soil in this location does not meet a hydric soil indicator, so the soils criterion is not satisfied.  DROLOGY  Redox Dark Surface (F7) Hydric Soil Water Soil Water Soil  DROLOGY  Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Algal Mat or Crust (B4) Hron Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Wetland Hydrolog	
Histosol (A1)   Sandy Gleyed Matrix (S4)   Coast Histospiedon (A2)   Sandy Redox (S5)   Dark Sandy Redox Gark Surface (A1)   Depleted Matrix (F2)   Very Sandy Muck Mineral (S1)   Depleted Matrix (F3)   Other Depleted Below Dark Surface (A11)   Redox Dark Surface (F6)   Thick Dark Surface (A12)   Depleted Dark Surface (F7)   3 Indicate Sandy Muck Mineral (S1)   Redox Depressions (F8)   Wetting Strictive Layer (if observed):  Type:	L=Pore Lining. M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Brydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Depleted Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Scm Mucky Peat or Peat (S3) Bryceric Layer (if observed): Type: Depth (inches): BryDepth (inches): Br	rs for Problematic Hydric Soils $^3$ :
Black Histic (A3)   Stripped Matrix (S6)   Dark : Hydrogen Sulfide (A4)   Loamy Mucky Mineral (F1)   Iron Medical Composition (A1)   Loamy Mucky Mineral (F2)   Other Depleted Below Dark Surface (A11)   Depleted Matrix (F3)   Other Depleted Below Dark Surface (A12)   Depleted Dark Surface (F7)   3 Indicator (A12)   Depleted Dark Surface (F7)   Depl	Prairie Redox (A16)
Stripped Matrix (56)	Surface (S7)
Stratified Layers (A5)	Manganese Masses (F12)
2 cm Muck (A10)	Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	` '
Thick Dark Surface (A12)	(Explain in Remarks)
Sandy Muck Mineral (S1)	
S cm Mucky Peat or Peat (S3)	ors of hydrophytic vegetation and
strictive Layer (if observed): Type:	and hydrology must be present,
Type:	ess disturbed or problematic.
Pepth (inches):	
### Commarks:  ### Commarks: ### Commarks:  ### Commarks: ### Commarks: #### Commarks: ##### Commarks: ###### Commarks: ###### Commarks: ###### Commarks: ########### Commarks: ####################################	I Present? Yes ○ No ●
POROLOGY  etland Hydrology Indicators:  imary Indicators (minimum of one is required; check all that apply)  Second Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Water Marks (B1)  Water Marks (B2)  Oxidized Rhizospheres on Living Roots (C3)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Depth (inches):  Interace Water Present?  Yes No Depth (inches):  Interace Water Present?  Yes No Depth (inches):  Interaction Present?  Yes No Depth (inches):  Interaction Present?  Yes Depth (inches):	I Present? Yes ○ No ●
etland Hydrology Indicators:  rimary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  True Aquatic Plants (B14)  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)  Please of Reduced Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Depth (inches):  Sediment Deposits (B3)  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)  Wetland Hydrology  Wetland Hydrology  Wetland Hydrology  Sparsely Present?  Present.  Present.  Present.  Present.  Present.  Present.  Present.  Present.  Present.  Pres	
Surface Water (A1)	
Surface Water (A1)	
High Water Table (A2)  Aquatic Fauna (B13)  True Aquatic Plants (B14)  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)  Pesh Observations:  Inface Water Present?  Yes No  Depth (inches):	ondary Indicators (minimum of two required
Saturation (A3)	Surface Soil Cracks (B6)
Water Marks (B1)	Drainage Patterns (B10)
Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Depth (inches):  ater Table Present?  Test One  Depth (inches):	Dry Season Water Table (C2)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  eld Observations:  urface Water Present?  Yes No  Depth (inches):  cutration Present?  Yes No  Depth (inches):  Uturation Present?  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Gauge or Well Data (D9)  Other (Explain in Remarks)  Wetland Hydrolog  Wetland Hydrolog  Present Iron Reduction in Tilled Soils (C6)  Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):	Crayfish Burrows (C8)
Drift Deposits (B3)  □ Presence of Reduced Iron (C4) □ Algal Mat or Crust (B4) □ Recent Iron Reduction in Tilled Soils (C6) □ Iron Deposits (B5) □ Thin Muck Surface (C7) □ Inundation Visible on Aerial Imagery (B7) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks)   eld Observations: □ Irface Water Present? □ Yes □ No □ Depth (inches):	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5) Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)  Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)  eld Observations:  Inface Water Present? Yes No Depth (inches):  Depth (inches):  Depth (inches):  Depth (inches):  Uturation Present?  Present? Yes No Depth (inches):  Depth (inches):  Depth (inches):	Stunted or Stressed Plants (D1)
Iron Deposits (B5) ☐ Thin Muck Surface (C7) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Gauge or Well Data (D9) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Other (Explain in Remarks)  eld Observations:  urface Water Present? Yes ☐ No ⑥ Depth (inches):  ater Table Present? Yes ☐ No ⑥ Depth (inches):  uturation Present? Yes ☐ No ⑥ Depth (inches):  uturation Present? Yes ☐ No ⑥ Depth (inches): ☐ Wetland Hydrology and H	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  eld Observations:  Inface Water Present? Yes No Depth (inches):  Inter Table Present? Yes No Depth (inches):  Intuition Present? Yes No Depth (inches):  Indudes capillary fringe)  Wetland Hydrology	The Nedula Test (D3)
eld Observations:  urface Water Present?  Yes No Depth (inches):  atter Table Present?  Yes No Depth (inches):  urface Water Present?  Yes No Depth (inches):  Urface Water Present?  Yes No Depth (inches):  Wetland Hydrolog  Present?  Present.  Pr	
reface Water Present? Yes No Depth (inches):  ater Table Present? Yes No Depth (inches):  buturation Present? Yes No Depth (inches):  cuturation Present? Yes No Depth (inches):  buturation Present? Yes No Depth (inches):	
Pater Table Present? Yes No Depth (inches):  Suturation Present? Yes No Depth (inches):  Suturation Present? Yes No Depth (inches):  Wetland Hydrolog Depth (inches):	
aturation Present?  Yes No Depth (inches): Wetland Hydrolog	
aturation Present?  Yes No Depth (inches):  Wetland Hydrolog	
iciudes capillary fringe)	gy Present? Yes O No 💿
assissi isasisada bata (ottodini gaago, monitoring men, acital protos, previous inspections), il available	a:
	<del></del>
emarks:	
ernarks: either primary nor secondary wetland hydrology indicators were observed, so the hydrology criterion is	

Project/Site: 1960 & 2000 Lucent Ln and	Vacant Prop to NW	Cit	ty/County:	Naperville/Du	uPage		Sampling Date:	22-Apr-19
Applicant/Owner: Lincoln Property Compa	any Commercial Inc.			State:	IL	Sampling	Point:	X13
Investigator(s): A. Metzger, D. Jablonski			Section, Town			T 38N	R 10E	
Landform (hillslope, terrace, etc.): Lowlan	nd		I	Local relief (c	concave, conve	ex, none): flat	:	
Slope: 0.0% / 0.0 ° Lat.: 4	 11 813082		Long.: -	88.116508		_	Datum: NAD	) 1983
Soil Map Unit Name: Peotone silty clay				00.110000	NV	VI classification		
Are climatic/hydrologic conditions on the si		Yes (	No ○	(If no, ex	cplain in Remai		NOILE	
		ignificantly dis		•		ances" present	Yes •	No O
	_	aturally proble				ny answers in F		-
SUMMARY OF FINDINGS - Att	. , -,	, ,		-				s, etc.
	Yes   No				•			<u>,                                      </u>
	Yes • No O			e Sampled A		O		
,	Yes ● No ○		Within	n a Wetland	¹? Yes 🤄	● No ○		
Remarks:								
This location satisfies all three criter	ria and qualifies as wet!	land.						
	to the desired							
\								
<b>VEGETATION -</b> Use scien	tific names of plan	ıts.	Dominant - Species?					
_Tree Stratum_(Plot size: 30 feet	)	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance	e Test worksh	eet:	
1. Fraxinus pennsylvanica	'	<b>% Cover</b>	<b>Cover</b> ✓ 100.0%	FACW		Dominant Speci BL, FACW, or FA		2 (A)
2.			0.0%	- 17011	ווומנ מוכ טט	L, FACVV, ULIF	ic:	(^)
3			0.0%			er of Dominant oss All Strata:		2 (B)
4.		_	0.0%				-	(5)
5		0	0.0%			dominant Sp		0.0% (A/B)
		60	= Total Cove	er	I fidt Aie O	DBL, FACW, o	r FAC:	<u>5.0 /0</u> (-, -,
Sapling/Shrub Stratum (Plot size: 15 fe						Index works		
1		•	0.0%			I % Cover of:		
2		0 0	0.0%		OBL speci FACW spe		0 x 1 = 0 x 2 =	30
4			0.0%		FACW speci		0 x 2 = y x 3 =	<u>120</u> 0
5.		0	0.0%		FACU speci		x 4 =	0
Herb Stratum (Plot size: 5 feet	)	0	= Total Cove	er	UPL speci			0
1 Eleocharis palustris		30	<b>✓</b> 100.0%	OBL	Column T			150 (B)
		0	0.0%	- ODL				
2. 3.		0	0.0%	- —		ence Index =		.667_
4.		0	0.0%		1	ic Vegetation		
5.		0	0.0%			_	drophytic Veget	ation
6		0	0.0%			ninance Test i valence Index		
7		0	0.0%				≀ is ≤3.0 ° laptations ¹ (Pro	wide supporting
8			0.0%		data in	Remarks or o	on a separate she	eet)
9. 10.			0.0%		Problem	natic Hydroph	hytic Vegetation	<sup>1</sup> (Explain)
		30			1 Indicator	rs of hydric so	oil and wetland h	nydrology must
Woody Vine Stratum (Plot size: 5 feet	<u>:                                    </u>		= 10tal CovC	31	be present	, unless distu	irbed or problem	atic.
1,			0.0%		U. dronbyt	u.,		
2			0.0%		Hydrophyt Vegetation		No 🔾	
		0	= Total Cove	er	Present?	Yes 💌	NO U	
					<u> </u>			
Remarks: (Include photo numbers h	•	,						
All of the dominant species are hydr	ophytic, so the vegetat	ion criterion	is satisfied.					

rofile Description: (De Depth	Matrix	Red	ox Features		_	
(inches) Color (		Color (moist)	% Type <sup>1</sup>	Loc2	Texture	Remarks
0-10 10YR	2/1	10YR 4/6	5		Silty Clay Loam	
				-	· -	
ype: C=Concentration, D	=Depletion, RM=R	educed Matrix, CS=Covere	ed or Coated Sand G	rains.	<sup>2</sup> Location: PL=Pore Lining	. M=Matrix.
dric Soil Indicators:					Indicators for Proble	ematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Gleyed	Matrix (S4)		Coast Prairie Redox	(Δ16)
Histic Epipedon (A2)		Sandy Redox (	(S5)		Dark Surface (S7)	(AIO)
☐ Black Histic (A3)		Stripped Matri	x (S6)		☐ Iron Manganese M	accoc (E12)
☐ Hydrogen Sulfide (A4)	1	Loamy Mucky	Mineral (F1)			• •
Stratified Layers (A5)		Loamy Gleyed	Matrix (F2)		☐ Very Shallow Dark	, ,
2 cm Muck (A10)	C	Depleted Matri	ix (F3)		Other (Explain in R	emarks)
Depleted Below Dark	` '	✓ Redox Dark Su	ırface (F6)			
☐ Thick Dark Surface (A	•	Depleted Dark	Surface (F7)		<sup>3</sup> Indicators of hydrop	hytic vegetation and
Sandy Muck Mineral (	•	Redox Depress	sions (F8)		wetland hydrolog	y must be present,
5 cm Mucky Peat or Pe					unless disturbed	or problematic.
estrictive Layer (if obs	served):					
71-					Hydric Soil Present?	Voc   No
Depth (inches):emarks:		ntor F6, Redox Dark Sur	rface, and satisfie	s the soils	Hydric Soil Present?  criterion.	Yes ● No ○
Depth (inches):emarks:			face, and satisfie	s the soils		Yes  No
Depth (inches):emarks: is profile exhibits hydi			face, and satisfie	s the soils		Yes  No
Depth (inches):emarks: is profile exhibits hydi	ric soil field indica		rface, and satisfie	s the soils		Yes  No
Depth (inches):emarks: ais profile exhibits hydroughter  YDROLOGY  Vetland Hydrology Indi	ric soil field indica	ntor F6, Redox Dark Sur	rface, and satisfie	s the soils	criterion.	Yes  No
Depth (inches):emarks: is profile exhibits hydrology  PDROLOGY  etland Hydrology Indicators (minimized)	ric soil field indica	ed; check all that apply)	rface, and satisfie	s the soils	criterion.	tors (minimum of two required
Depth (inches):emarks: is profile exhibits hydromother exhibits hy	ric soil field indica	ed; check all that apply)	ed Leaves (B9)	s the soils	criterion.  Secondary Indica	ntors (minimum of two required_ Cracks (B6)
Depth (inches): emarks: iis profile exhibits hydr  YDROLOGY  Yetland Hydrology Indi rimary Indicators (minim	ric soil field indica	ed; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (B9)	s the soils	Secondary Indication Surface Soil On Drainage Pat	ntors (minimum of two required_ Cracks (B6)
Depth (inches):emarks: is profile exhibits hydrology  YDROLOGY  etland Hydrology Indicitionary Indicators (minimized of the profile of	ric soil field indica	ed; check all that apply)  Water-Staine Aquatic Faur	ed Leaves (B9) na (B13)	s the soils	Secondary Indication Surface Soil On Drainage Pat	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2)
Depth (inches): emarks: his profile exhibits hydrology  YDROLOGY  Vetland Hydrology Indirimary Indicators (minimizer) Surface Water (A1) High Water Table (A2) Saturation (A3)	ric soil field indica	ed; check all that apply)  Water-Staine Aquatic Faur Hydrogen Su	ed Leaves (B9) na (B13) : Plants (B14)		Secondary Indica  Surface Soil  Drainage Pat  Dry Season \  Crayfish Burn	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2)
pepth (inches): emarks: is profile exhibits hydrology  YDROLOGY  retland Hydrology Indirimary Indicators (minimary Indicators (minimary Indicators (minimary Indicators (Marks Water Table (A2)  Saturation (A3)  Water Marks (B1)	ric soil field indica	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	ed Leaves (B9) na (B13) t Plants (B14) ulfide Odor (C1)		Secondary Indica Surface Soil  Drainage Pat Dry Season \ Crayfish Burr Saturation Vi	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8)
pepth (inches):emarks: is profile exhibits hydrology  POROLOGY  etland Hydrology Indirimary Indicators (minimary Indicators (Minim	ric soil field indications: um of one is require )	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St. Oxidized Rhi. Presence of	ed Leaves (B9) na (B13) t: Plants (B14) ulfide Odor (C1) zospheres on Living	Roots (C3)	Secondary Indica Surface Soil  Drainage Pat Dry Season \ Crayfish Burr Saturation Vi	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1)
pepth (inches): emarks: is profile exhibits hydrology  retland Hydrology Indirimary Indicators (minimary Indicators (minimary Indicators (Management Indicators	ric soil field indications: um of one is require )	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St. Oxidized Rhi. Presence of	ed Leaves (B9) na (B13) : Plants (B14) ulfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S	Roots (C3)	Secondary Indica Surface Soil  Drainage Pat Dry Season \ Crayfish Burr Saturation Vi Stunted or S	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
pepth (inches): emarks: his profile exhibits hydrology  Yetland Hydrology Individual of the control of the cont	ric soil field indications: um of one is require  2)	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si	ed Leaves (B9) na (B13) : Plants (B14) ulfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S	Roots (C3)	Secondary Indica Surface Soil o Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
Depth (inches): emarks: his profile exhibits hydrology  Tetland Hydrology Indirity Finance Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ric soil field indica  icators: um of one is require  2)  Aerial Imagery (B7)	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si Gauge or We	ed Leaves (B9) na (B13) Plants (B14) Iffide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled Surface (C7)	Roots (C3)	Secondary Indica Surface Soil o Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
Depth (inches): emarks: his profile exhibits hydrology  YDROLOGY  Yetland Hydrology Indirimary Indicators (minimary Indicators (minimary Indicators (minimary Indicators (Marks (	ric soil field indica  icators: um of one is require  2)  Aerial Imagery (B7)	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si Gauge or We	ed Leaves (B9) na (B13) Plants (B14) Ulfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9)	Roots (C3)	Secondary Indica Surface Soil o Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
Pepth (inches): emarks: is profile exhibits hydrology  Petland Hydrology Indirimary Indicators (minimary Indicator	ric soil field indica icators: um of one is require  2) Aerial Imagery (B7) oncave Surface (B8)	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Gauge or We	ed Leaves (B9) na (B13) : Plants (B14) ulfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks)	Roots (C3)	Secondary Indica Surface Soil o Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
Depth (inches):  demarks: his profile exhibits hydrology  YDROLOGY  Yetland Hydrology Individual In	icators: um of one is require  ) Aerial Imagery (B7) oncave Surface (B8)	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si Gauge or We Other (Expla	ed Leaves (B9) na (B13) Plants (B14) Ulfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9)	Roots (C3)	Secondary Indica Surface Soil o Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
Depth (inches):  Demarks:	icators: um of one is require  ) Aerial Imagery (B7) oncave Surface (B8)	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Gauge or We	ed Leaves (B9) na (B13) Plants (B14) Ulfide Odor (C1) Zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks) hes):  1	Roots (C3) Goils (C6)	Secondary Indica Surface Soil of Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic FAC-Neutral	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2) Test (D5)
Depth (inches):  Lemarks: his profile exhibits hydrology  Vetland Hydrology Indirimary Indicators (minimary Indicators (minimary Indicators (minimary Indicators (Malana Indicators (Mal	icators: um of one is require  2) Aerial Imagery (B7) oncave Surface (B8) Yes  No Yes  No	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St. Oxidized Rhi. Presence of Recent Iron Thin Muck St. Gauge or We Other (Expla	ed Leaves (B9) na (B13) Plants (B14) Ulfide Odor (C1) Zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks) hes):  1 hes):	Roots (C3) Goils (C6)	Secondary Indica Surface Soil o Drainage Pat Dry Season V Crayfish Burr Saturation Vi Stunted or S Geomorphic	otors (minimum of two required_ Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2)
Depth (inches):  Lemarks: his profile exhibits hydrology  Vetland Hydrology Individual Indicators (minimary Indica	ric soil field indications:  icators:  um of one is require  )  Aerial Imagery (B7)  oncave Surface (B8)  Yes No Yes No Yes No Yes No	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si Gauge or We Other (Expla	ed Leaves (B9) na (B13) Plants (B14) Ilfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks)  hes):  hes):  hes):	Roots (C3) Soils (C6) Wet	Secondary Indica Surface Soil on Drainage Pat Dry Season No Saturation Viring Geomorphic FAC-Neutral	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2) Test (D5)
Depth (inches):  Lemarks: his profile exhibits hydrology  Vetland Hydrology Individual Indicators (minimary Indica	ric soil field indications:  icators:  um of one is require  )  Aerial Imagery (B7)  oncave Surface (B8)  Yes No Yes No Yes No Yes No	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St. Oxidized Rhi. Presence of Recent Iron Thin Muck St. Gauge or We Other (Expla	ed Leaves (B9) na (B13) Plants (B14) Ilfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks)  hes):  hes):  hes):	Roots (C3) Soils (C6) Wet	Secondary Indica Surface Soil on Drainage Pat Dry Season No Saturation Viring Geomorphic FAC-Neutral	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2) Test (D5)
Depth (inches):  demarks:  his profile exhibits hydrology  Vetland Hydrology Indirimary Indicators (minimary Indic	ric soil field indications:  icators:  um of one is require  )  Aerial Imagery (B7)  oncave Surface (B8)  Yes No Yes No Yes No Yes No	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si Gauge or We Other (Expla	ed Leaves (B9) na (B13) Plants (B14) Ilfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks)  hes):  hes):  hes):	Roots (C3) Soils (C6) Wet	Secondary Indica Surface Soil on Drainage Pat Dry Season No Saturation Viring Geomorphic FAC-Neutral	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2) Test (D5)
Depth (inches):  Lemarks: his profile exhibits hydrology  Vetland Hydrology Individual Indicators (minimary Indica	ric soil field indications:  icators:  um of one is require  )  Aerial Imagery (B7)  oncave Surface (B8)  Yes No Yes No Yes No Yes No	ed; check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck Si Gauge or We Other (Expla	ed Leaves (B9) na (B13) Plants (B14) Ilfide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7) ell Data (D9) in in Remarks)  hes):  hes):  hes):	Roots (C3) Soils (C6) Wet	Secondary Indica Surface Soil on Drainage Pat Dry Season No Saturation Viring Geomorphic FAC-Neutral	otors (minimum of two required Cracks (B6) terns (B10) Vater Table (C2) ows (C8) sible on Aerial Imagery (C9) cressed Plants (D1) Position (D2) Test (D5)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County: Naperville/D	DuPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.	State:	: <u>IL</u> Sampling Point: <b>X14</b>
Investigator(s): _A. Metzger, D. Jablonski	Section, Township, Range	:: S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Lowland	Local relief (	concave, convex, none): flat
Slope:	Long.: -88.117199	
Soil Map Unit Name: Orthents, clayey (805B)		NWI classification: PEM1Ah
Are climatic/hydrologic conditions on the site typical for this time of	vear? Yes No O (If no. e	explain in Remarks.)
		ormal Circumstances" present?
		ormal circumstances present.
SUMMARY OF FINDINGS - Attach site map show	, ,	eded, explain any answers in Remarks.) ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	1	
Hydric Soil Present? Yes No •	Is the Sampled	
Wetland Hydrology Present? Yes  No  No	within a Wetlan	d? Yes ○ No ●
Remarks:		
This location fails the vegetation and soils criteria and doe:	s not qualify as wetland	
This recation rails the regetation and soils effected and does	o not quality as welland.	
<b>VEGETATION -</b> Use scientific names of plan		
20 5	Absolute Rel.Strat. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )	% Cover Cover Status	Number of Dominant Species
1		That are OBL, FACW, or FAC: (A)
2. 3.		Total Number of Dominant
4		Species Across All Strata: (B)
5.	0 0.0%	Percent of dominant Species
	0 = Total Cover	That Are OBL, FACW, or FAC: 50.0% (A/B)
_Sapling/Shrub Stratum (Plot size: 15 feet)		Prevalence Index worksheet:
1. Salix interior	40 <u>100.0%</u> FACW	Total % Cover of: Multiply by:
2		OBL species0 x 1 =0
34.		FACW species 40 x 2 = 80
5.	0 0.0%	FAC species $0 \times 3 = 0$
	40 = Total Cover	FACU species $0 \times 4 = 0$ UPL species $60 \times 5 = 300$
<u>Herb Stratum</u> (Plot size: <u>5 feet</u> )		
1 Dipsacus laciniatus		Column Totals: <u>100</u> (A) <u>380</u> (B)
2		Prevalence Index = B/A = <u>3.800</u>
3		Hydrophytic Vegetation Indicators:
45		1 - Rapid Test for Hydrophytic Vegetation
6		2 - Dominance Test is > 50%
7		3 - Prevalence Index is ≤3.0 <sup>1</sup>
8		4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9	0 0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0 0.0%	Indicators of hydric soil and wetland hydrology must
_Woody Vine Stratum (Plot size: 5 feet)	60 = Total Cover	be present, unless disturbed or problematic.
1,	0 0.0%	
2.	0 0.0%	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No •
		1
Remarks: (Include photo numbers here or on a separate s	heet.)	
Only 50% of the dominant species are hydrophytic, so the	vegetation criterion is not satisfied	i.

Depth Mat	rix	Red	ox Featu			_	
(inches) Color (mois		Color (moist)	<u>%</u>	Type 1	Loc2	Texture	Remarks
0-8 10YR 2,	/1					Silty Clay Loam	
8-15 10YR 5/		10YR 5/8	5			Silty Clay Loam	Mixed Fill
					-		
		10YR 5/3	5				
					-		
ype: C=Concentration, D=Dep	oletion, RM=Reduc	ed Matrix, CS=Covere	ed or Coat	ted Sand Gr	ains.	<sup>2</sup> Location: PL=Pore L	ining. M=Matrix.
ydric Soil Indicators:						Indicators for Pr	roblematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Gleyed	Matrix (S	4)		Coast Prairie R	adox (A16)
Histic Epipedon (A2)		Sandy Redox (	(S5)			Dark Surface (	, ,
Black Histic (A3)		Stripped Matri	x (S6)			`	•
☐ Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (F	<del>-</del> 1)			se Masses (F12)
Stratified Layers (A5)		Loamy Gleyed	Matrix (F	2)		_ '	Dark Surface (TF12)
2 cm Muck (A10)		Depleted Matr	ix (F3)			Other (Explain	in Remarks)
Depleted Below Dark Surface	ce (A11)	Redox Dark Su	. ,	)			
Thick Dark Surface (A12)		Depleted Dark	•	•		3 Indicators of hy	drophytic vegetation and
Sandy Muck Mineral (S1)		Redox Depres		` '		wetland hydr	ology must be present,
5 cm Mucky Peat or Peat (S	53)	Redox Depres	310113 (1 0)				rbed or problematic.
estrictive Layer (if observe	d):						
Type:							
Depth (inches):						Hydric Soil Presen	rt? Yes ○ No •
**	ot observed, so t	he soils criterion is	not satis	sfied.		Hydric Soil Presen	nt? Yes O No •
Depth (inches):emarks:	ot observed, so t	he soils criterion is	not satis	ified.		Hydric Soil Presen	nt? Yes ○ No •
Depth (inches):emarks: dric soil indicators were no	ot observed, so t	he soils criterion is	not satis	sfied.		Hydric Soil Presen	nt? Yes ○ No ●
Depth (inches):emarks: rdric soil indicators were no		he soils criterion is	not satis	sfied.		Hydric Soil Presen	nt? Yes ○ No ●
Depth (inches):emarks:	rs:		not satis	sfied.			ndicators (minimum of two required
Depth (inches):emarks: rdric soil indicators were no	rs:					Secondary In	
Depth (inches):emarks: rdric soil indicators were no YDROLOGY retland Hydrology Indicator rimary Indicators (minimum of	rs:	theck all that apply)	ed Leaves			Secondary In	ndicators (minimum of two required
Depth (inches):emarks: vdric soil indicators were no  YDROLOGY  Vetland Hydrology Indicator rimary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)	rs:	theck all that apply)  Water-Staine Aquatic Faur	ed Leaves na (B13)	(B9)		Secondary In  Surface	ndicators (minimum of two required Soil Cracks (B6)
Depth (inches):emarks:  vdric soil indicators were no  YDROLOGY  Vetland Hydrology Indicator  rimary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	rs:	theck all that apply)  Water-Staine Aquatic Faur	ed Leaves na (B13) : Plants (E	(B9) 314)		Secondary II Surface: Drainage Dry Seas	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2)
Pepth (inches):emarks:  vdric soil indicators were not provided to the control of the contr	rs:	theck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St	ed Leaves na (B13) t Plants (E ulfide Odo	(B9) B14) or (C1)	Roots (C3)	Secondary II Surface: Drainage Dry Seas	ndicators (minimum of two required Soil Cracks (B6) e Patterns (B10) son Water Table (C2) Burrows (C8)
Pepth (inches):emarks:  vdric soil indicators were not  YDROLOGY  Vetland Hydrology Indicator  rimary Indicators (minimum of  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	rs:	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St	ed Leaves na (B13) t Plants (E ulfide Odo zospheres	(B9) 314) or (C1) s on Living F	Roots (C3)	Secondary II Surface Drainage Dry Seas Crayfish Saturatio	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9)
Depth (inches):emarks:  dric soil indicators were not all the proof of the pro	rs:	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced	(B9) 314) or (C1) s on Living F Iron (C4)		Secondary In Surface: Drainage Dry Seas Crayfish Saturatic Stunted	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches):  emarks:  rdric soil indicators were not emarks:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	rs:	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled Sc		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted V Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Pepth (inches):  emarks:  rdric soil indicators were not emarks:  rdric soil indicators were not emarks:  retriand Hydrology Indicator emary Indicators (minimum of emary Indicators (Minimum	<b>rs:</b> f one is required; c	theck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior urface (C'	(B9) B14) or (C1) s on Living F Iron (C4) n in Tilled So		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Pepth (inches):  emarks:  rdric soil indicators were not all the properties of the period of the per	rs: f one is required; o	theck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior urface (C)	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Pepth (inches): emarks: dric soil indicators were not expected by the content of	rs: f one is required; o	theck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior urface (C)	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Pepth (inches):emarks:  vdric soil indicators were not provided in the control of the contr	rs: f one is required; o	theck all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen Staine Oxidized Rhi Presence of Recent Iron Thin Muck S	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior urface (C)	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Depth (inches):emarks:  dric soil indicators were not all the properties of the pr	rs: f one is required; of I Imagery (B7) e Surface (B8)	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	ed Leaves na (B13) : Plants (E Ilfide Odo zospheres Reduced Reductior urface (C ell Data (I in in Rem	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Pepth (inches): emarks: vdric soil indicators were not a control of the control o	rs: f one is required; of I Imagery (B7) e Surface (B8)  Yes  No	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain	ed Leaves na (B13) : Plants (E Ilfide Odo zospheres Reduced Reductior urface (C ell Data (I in in Rem	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)		Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2)
Pepth (inches): emarks: vdric soil indicators were not a control of the control o	rs: f one is required; of I Imagery (B7) e Surface (B8)	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced : Reductior urface (C: ell Data (I in in Rem	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)	bils (C6)	Secondary In  Surface:  Drainage  Crayfish  Saturatic  Stunted  Geomorp  FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)
Depth (inches): emarks: dric soil indicators were not a continuous process of the continuous pro	rs:  f one is required; of  I Imagery (B7) e Surface (B8)  Yes  No  Yes  No	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	ed Leaves na (B13) : Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (I inin in Rem hes):	(B9)  314)  or (C1)  s on Living F  Iron (C4)  n in Tilled So  7)  D9)	bils (C6)	Secondary In Surface: Drainage Dry Seas Crayfish Saturatio Stunted Geomorp	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)
Pepth (inches):  emarks:  dric soil indicators were not a continuous presents (and the presents)  proposition of the present (and the presents)  proposition	rs: If one is required; of	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain	ed Leaves na (B13) t Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (I nin in Rem hes): hes):	(B9) B14) or (C1) s on Living F Iron (C4) on in Tilled So (7) (29) (3) (3) (4)	bils (C6)	Secondary In Surface: Drainage Dry Seas Crayfish Saturatic Stunted Geomorp FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)
Depth (inches): emarks: dric soil indicators were not a continuous process of the continuous pro	rs: If one is required; of	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain	ed Leaves na (B13) t Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (I nin in Rem hes): hes):	(B9) B14) or (C1) s on Living F Iron (C4) on in Tilled So (7) (29) (3) (3) (4)	bils (C6)	Secondary In Surface: Drainage Dry Seas Crayfish Saturatic Stunted Geomorp FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)
Pepth (inches):  emarks:  dric soil indicators were not a continuous presents (and the presents)  proposition of the present (and the presents)  proposition	rs: If one is required; of	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain	ed Leaves na (B13) t Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (I nin in Rem hes): hes):	(B9) B14) or (C1) s on Living F Iron (C4) on in Tilled So (7) (29) (3) (3) (4)	bils (C6)	Secondary In Surface: Drainage Dry Seas Crayfish Saturatic Stunted Geomorp FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)
Pepth (inches):  emarks:  dric soil indicators were not a continuous presents (and the presents)  proposition of the present (and the presents)  proposition	rs: If one is required; of	check all that apply)  Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Explain	ed Leaves na (B13) t Plants (E ulfide Odo zospheres Reduced Reductior urface (C ell Data (I nin in Rem hes): hes):	(B9) B14) or (C1) s on Living F Iron (C4) on in Tilled So (7) (29) (3) (3) (4)	bils (C6)	Secondary In Surface: Drainage Dry Seas Crayfish Saturatic Stunted Geomorp FAC-Neu	ndicators (minimum of two required Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1) Ohic Position (D2) Itral Test (D5)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County: Naperville/D	DuPage Sampling Date: 22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.	State:	: IL Sampling Point: X15
Investigator(s): A. Metzger, D. Jablonski	Section, Township, Range	: S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Lowland		concave, convex, none): flat
Slope: 0.0% / 0.0 ° Lat.: 41.81154	Long.: -88.122683	
Soil Map Unit Name: Beecher silt loam (298A)	2011911 -00.122003	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of y	Yes No O (If no ex	xplain in Remarks.)
		ormal Circumstances" present?
		ormal circumstances present.
Are Vegetation, Soil, or Hydrology no SUMMARY OF FINDINGS - Attach site map show	•	eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No		
	Is the Sampled A	
,, , , , , , , , , , , , , , , , , , , ,	within a Wetland	d? Yes   No
Remarks: This location satisfies all three criteria and qualifies as wetle	and	
This location satisfies all timee criteria and qualifies as well	anu.	
<b>VEGETATION -</b> Use scientific names of plan		
(2)	Absolute Rel.Strat. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )	% Cover Cover Status	Number of Dominant Species
1. Quercus macrocarpa	20 <u>100.0%</u> FAC 0.0%	That are OBL, FACW, or FAC:3(A)
2. 3		Total Number of Dominant
4.		Species Across All Strata:
5.	0 0.0%	Percent of dominant Species
	20 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
<u>Sapling/Shrub Stratum (Plot size:</u> 15 feet )		Prevalence Index worksheet:
1. Rhamnus cathartica		Total % Cover of: Multiply by:
2		OBL species 0 x 1 = 0
3. 4.	0 0.0%	FACW species $0 \times 2 = 0$
5.	0 0.0%	FAC species $70$ $\times 3 = 210$ FACU species $0$ $\times 4 = 0$
	20 = Total Cover	FACU species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$
<u>Herb Stratum</u> (Plot size: <u>5 feet</u> )		
1_Symphyotrichum lanceolatum ssp. lanceolatum var. interior	30 100.0% FAC	Column Totals: 70 (A) 210 (B)
2	0 0.0%	Prevalence Index = B/A = 3.000
3 4	0 0.0%	Hydrophytic Vegetation Indicators:
5	0 0.0%	1 - Rapid Test for Hydrophytic Vegetation
6.	0 0.0%	2 - Dominance Test is > 50%
7.	0 0.0%	3 - Prevalence Index is ≤3.0 ¹      A Manufacturian 1 (Duration 1)
8	0 0.0%	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
9	0 0.0%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10	0 U 0.0%	$\frac{1}{-}$ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )	30 = Total Cover	be present, unless disturbed or problematic.
1,	0 0.0%	
2	0 0.0%	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes  No
		1
Remarks: (Include photo numbers here or on a separate sh	•	
All of the dominant species are hydrophytic, so the vegetat	ion criterion is satisfied.	
İ		

Profile Desci	iption: (Describe	to the depth n	eeded to document	the indi	cator or c	onfirm the	e absence of indicators.)	
Depth	Matr			ox Featu			-	
(inches)	Color (moist		Color (moist)	<u>%</u>	Type 1	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/2	<u> </u>	10YR 5/6	5			Silty Clay Loam	
	-					-		
<sup>1</sup> Type: C=Con	centration, D=Depl	etion, RM=Reduc	ed Matrix, CS=Covere	ed or Coat	ed Sand G	rains.	<sup>2</sup> Location: PL=Pore Lining.	. M=Matrix.
Hydric Soil I	ndicators:						Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histosol (	<b>A1)</b>		☐ Sandy Gleyed	Matrix (S	4)			•
Histic Epip	pedon (A2)		Sandy Redox (	(S5)			Coast Prairie Redox	(A16)
Black Hist	• •		Stripped Matri	x (S6)			☐ Dark Surface (S7)	(542)
	Sulfide (A4)		Loamy Mucky	Mineral (I	<del>-</del> 1)		Iron Manganese Ma	
	Layers (A5)		Loamy Gleyed	Matrix (F	2)		☐ Very Shallow Dark S	
2 cm Muc	` ,		Depleted Matr	ix (F3)			Other (Explain in Re	emarks)
	Below Dark Surface	e (A11)	✓ Redox Dark Su	ırface (F6	)			
	k Surface (A12)		Depleted Dark	Surface	(F7)		<sup>3</sup> Indicators of hydroph	nytic vegetation and
	ck Mineral (S1)		Redox Depress	sions (F8)			wetland hydrology	must be present,
	ky Peat or Peat (S3						unless disturbed	or problematic.
	ayer (if observed	):						
Type:							Hydric Soil Present?	Yes   No
Depth (inc	hes):						Tryunc 3011 Fresent:	les 🕓 NO 🔾
Remarks:								
This profile ex	khibits hydric soi	field indicator I	F6, Redox Dark Sur	rface, an	d satisfies	the soils	criterion.	
HYDROLO	GY							
Wetland Hyd	rology Indicator	s:						
Primary Indica	ators (minimum of	one is required; c	heck all that apply)				Secondary Indicate	tors (minimum of two required_
✓ Surface W	/ater (A1)		☐ Water-Staine	ed Leaves	(B9)		Surface Soil C	cracks (B6)
	er Table (A2)		Aquatic Faur		` ,		Drainage Patt	erns (B10)
Saturation	* *		True Aquatio	. ,	314)			/ater Table (C2)
Water Ma			Hydrogen Su	-			Crayfish Burro	` ,
	Deposits (B2)		Oxidized Rhi		` '	Roots (C3)		sible on Aerial Imagery (C9)
Drift Depo			Presence of		_			ressed Plants (D1)
	or Crust (B4)		Recent Iron		. ,	ioils (C6)	Geomorphic F	, ,
☐ Iron Depo			☐ Thin Muck S			()	FAC-Neutral T	
	n Visible on Aerial	Imagery (B7)	Gauge or We	•	•			()
	/egetated Concave		Other (Expla	-	-			
	egotatoa comeare	54.1466 (56)		IIII III KEII	iai KS)			
Field Observ	ations:							
Surface Water		es   No	Depth (inc	hes):	1			
Water Table P		es O No 💿	1			_		
Saturation Pre				nes):		Wet	land Hydrology Present?	Yes   No
(includes capil	Y	es 🔾 No 💿	Depth (inc	hes):		_		
		am gauge, mon	itoring well, aerial	photos,	previous ii	nspections	s), if available:	
Remarks:								
The area was	s inundated to a	depth of 1 inch.	, so the hydrology	criterion	is satisfie	d.		
			, 3,					
1								

Project/Site: 1960 & 2000 Lucent Ln and Vaca	ant Prop to NW	Cit	y/County:	Naperville/Du	uPage	Sampling Date:	22-Apr-19
Applicant/Owner: Lincoln Property Company C	Commercial Inc.			State:	_IL Samp	oling Point:	X16
Investigator(s): A. Metzger, D. Jablonski					s 5 T 38N	R 10E	
Landform (hillslope, terrace, etc.): Channel (a	active)		ı	_ocal relief (c	oncave, convex, none):	flat	_
Slope: 0.0% / 0.0 ° Lat.: 41.8			Long: -	88.122754		Datum: NAE	D 1983
			Long	00.122/34	NIM/T alogaifias		
Soil Map Unit Name: Orthents, clayey (80		, Voc (	• No O	(If no ov	NWI classificates plain in Remarks.)	auon: None	
Are climatic/hydrologic conditions on the site ty					. ,	esent? Yes	● No ○
	_	nificantly dis			ormal Circumstances" pre	Joene.	9 NO C
Are Vegetation U , Soil U , or I  SUMMARY OF FINDINGS - Attacl		turally proble			ded, explain any answers	•	o to
		ilig Sallı		it iocatioi	is, transects, imp	——————————————————————————————————————	
	s • No O		Is the	Sampled A	ırea		
/ · · · · · · · · · · · · · · · · · · ·	s • No O			n a Wetland			
Wetland Hydrology Present? Yes	s • No O						
This location satisfies all three criteria a  VEGETATION - Use scientifie	·	ts.	Dominant		man-made roadside d		
_Tree Stratum_(Plot size: 30 feet	)	Absolute % Cover	Rel.Strat. Cover	Indicator Status			
1		0	0.0%		Number of Dominant S That are OBL, FACW, or		1 (A)
2		0	0.0%		Tatal Namahan of Dami		
3		0	0.0%		Total Number of Domin Species Across All Stra		1 (B)
4		0	0.0%				
5			0.0%		Percent of dominant That Are OBL, FACW		0.0% (A/B)
_Sapling/Shrub Stratum (Plot size: 15 feet	1	0	= Total Cove	er			
	/	0	0.0%		Prevalence Index wo		
1. 2.			0.0%		Total % Cover OBL species	r of: Multiply b $80   x 1 =$	80
3.		0	0.0%		FACW species	0 x 2 =	0
4.		0	0.0%		FAC species	0 x3=	0
5.		0	0.0%		FACU species	0 x 4 =	0
Herb Stratum (Plot size: 5 feet	1	0	= Total Cove	er	UPL species	0 x 5 =	0
1 Typha angustifolia	,	80	<b>✓</b> 100.0%	OBL	Column Totals:	80 (A)	80 (B)
		0	0.0%	OBL	_		
2. 3.		0	0.0%		Prevalence Inde	ex = B/A = <u>1</u>	.000_
4.		0	0.0%		Hydrophytic Vegetat		
5.		0	0.0%			r Hydrophytic Veget	ation
6		0	0.0%		2 - Dominance Te		
7		0	0.0%		3 - Prevalence In		
8		0	0.0%		data in Remarks	I Adaptations 1 (Pro or on a separate sh	ovide supporting eet)
9.			0.0%			rophytic Vegetation	-
10					$\frac{1}{2}$ Indicators of hydri	ic soil and wetland	hvdrology must
Woody Vine Stratum (Plot size: 5 feet	)	80	= Total Cove	er	be present, unless d	isturbed or problem	natic.
1,		0	0.0%				
2		0	0.0%		Hydrophytic Vegetation		
		0	= Total Cove	er	Present? Yes	; ● No ○	
Remarks: (Include photo numbers here The dominant species is hydrophytic, so	•	•	sfied.				

Profile Descript	tion: (Describe to	the depth ne	eded to document	the indi	cator or co	onfirm the	e absence of indicators.)	
Depth	Matrix			ox Featu			-	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type 1	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/1		10YR 4/6	5			Silty Clay Loam	
				-				
<sup>1</sup> Type: C=Concer	tration, D=Depletio	n, RM=Reduce	ed Matrix, CS=Covere	d or Coat	ed Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining.	M=Matrix.
Hydric Soil Ind	licators:						Indicators for Proble	matic Hydric Soils <sup>3</sup> :
Histosol (A1)	)		Sandy Gleyed	Matrix (S	4)			•
Histic Epiped	lon (A2)		Sandy Redox (	S5)			Coast Prairie Redox	(A16)
Black Histic (	• •		Stripped Matri	x (S6)			☐ Dark Surface (S7)	(510)
Hydrogen Su			Loamy Mucky	Mineral (F	=1)		☐ Iron Manganese Ma	
Stratified Lay			Loamy Gleyed	Matrix (F	2)		☐ Very Shallow Dark S	
2 cm Muck (	•		Depleted Matri	ix (F3)			Other (Explain in Re	emarks)
I — '	low Dark Surface (A	.11)	✓ Redox Dark Su	ırface (F6	)			
Thick Dark S	. ,		Depleted Dark	Surface (	(F7)		<sup>3</sup> Indicators of hydroph	vtic vegetation and
Sandy Muck	` ,		Redox Depress	sions (F8)			wetland hydrology	must be present,
	Peat or Peat (S3)						unless disturbed	or problematic.
-	er (if observed):							
Type:							Hydric Soil Present?	Yes ● No ○
Depth (inches	5):						Tryunc 3011 Fresent:	1es © 110 C
Remarks:								
This profile exhi	bits hydric soil fie	eld indicator f	6, Redox Dark Sur	face, an	d satisfies	the soils	criterion.	
<b>HYDROLOG</b>	Ϋ́							
Wetland Hydro	logy Indicators:							
Primary Indicato	rs (minimum of one	is required; cl	neck all that apply)				Secondary Indicat	ors (minimum of two required_
Surface Water	er (A1)		☐ Water-Staine	ed Leaves	(B9)		Surface Soil C	racks (B6)
High Water	Table (A2)		Aquatic Faur	na (B13)			☐ Drainage Patte	erns (B10)
Saturation (A	43)		True Aquatio	Plants (E	314)		☐ Dry Season W	ater Table (C2)
☐ Water Marks			Hydrogen Su	ılfide Odo	r (C1)		Crayfish Burro	ws (C8)
Sediment De	eposits (B2)		Oxidized Rhi	zospheres	s on Living F	Roots (C3)	Saturation Vis	ible on Aerial Imagery (C9)
☐ Drift Deposit	rs (B3)		Presence of	Reduced :	Iron (C4)		Stunted or Str	ressed Plants (D1)
Algal Mat or	Crust (B4)		Recent Iron	Reduction	n in Tilled So	oils (C6)	Geomorphic P	osition (D2)
☐ Iron Deposit	s (B5)		☐ Thin Muck S	urface (C	7)		✓ FAC-Neutral T	est (D5)
☐ Inundation \	isible on Aerial Ima	gery (B7)	Gauge or We	•	•			
Sparsely Veg	jetated Concave Sui	rface (B8)	Other (Expla	-	-			
					•			
Field Observati								
Surface Water Pr	esent? Yes	○ No ●	Depth (incl	nes):		_		
Water Table Pres	ent? Yes	O No •	Depth (incl	nes):				
Saturation Preser	nt? Yes	No ○			0	Wet	land Hydrology Present?	Yes   No
(includes capillar	y iringe)					_		
Describe Record	ded Data (stream	gauge, mon	itoring well, aerial	photos,	previous ir	nspections	s), if available:	
Remarks:								
The soil was sa	turated at the su	rface which s	atisfies the hydrolo	ogy crite	rion.			

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/C	County: Naper	rville/DuPage		Sampling Date:	22-Apr-19
Applicant/Owner: Lincoln Property Company Commercial Inc.			State: IL	Sampling F	Point:	X17
Investigator(s): A. Metzger, D. Jablonski	Sect	tion, Township, F	Range: S 5	T 38N	R 10E	
Landform (hillslope, terrace, etc.): Shoreline		Local r	relief (concave, con	nvex, none): flat		-
Slope: 0.0% / 0.0 ° Lat.: 41.818253		Long.: -88.12	23719		Datum: NAD	1983
Soil Map Unit Name: Open Water		5		NWI classification:	DI IRGY	
Are climatic/hydrologic conditions on the site typical for this time of y	rear? Yes ●	No O (If	f no, explain in Rei		TODOX	
	gnificantly disturb		Are "Normal Circur	nstances" present?	Yes •	No O
	aturally problema			n any answers in Re		
SUMMARY OF FINDINGS - Attach site map show		`	, , ,	,	,	, etc.
Hydrophytic Vegetation Present? Yes  No						
Hydric Soil Present? Yes   No		Is the Sam		. ● No ○		
Wetland Hydrology Present? Yes   No		Within a W	reciana: Yes	O NO O		
Remarks:						
This location satisfies all three criteria and qualifies as wetla	and; however,	Data Point X17	.7 is a man-made	e excavated stori	mwater retentio	n facility
<b>VEGETATION -</b> Use scientific names of plan	tc D	ominant	<del></del>			
Control of the second s	s	Species? ——	Domina	nce Test workshe		
<u>Tree Stratum</u> (Plot size: 30 feet )		el.Strat. Indic Cover Sta	atus			
1	0	0.0%		of Dominant Specie OBL, FACW, or FAC		<u>2</u> (A)
2.	0	0.0%	Total Nur			
3		0.0%		mber of Dominant Across All Strata:		3 (B)
4	_0	0.0%				
5	_0	0.0%		of dominant Spe e OBL, FACW, or		.7% (A/B)
C. II. In Cr. J. (Blot circ) 15 feet	= _	Total Cover		· ·	17101	
Sapling/Shrub Stratum (Plot size: 15 feet )	20	100.00/ 540		ce Index worksh		
1. Rhamnus cathartica 2.	<u>20</u>	100.0% FAC		tal % Cover of:	Multiply by	
3.	0 □	0.0%	OBL sp			<u> </u>
4.	0 🗀	0.0%	FAC sp			60
5.	0 🗆	0.0%	FACU s			120
Herb Stratum (Plot size: 5 feet )	20 =	Total Cover	UPL sp	-		0
1 Bromus inermis	30	50.0% FAC	Column	n Totals: 80		240 (B)
2 5 4 4 7 7	30		714/			
2. Phalaris arundinacea 3.		0.0% TAC		valence Index =	·	000_
4		0.0%	1	ytic Vegetation I		
5		0.0%		apid Test for Hyd		ation
6	0	0.0%		ominance Test is		
7	_0 □	0.0%		revalence Index		· · · · · · · · · · · · · · · · · · ·
8		0.0%	—	orphological Ada in Remarks or or	iptations + (Pro n a separate she	vide supporting et)
9	_0	0.0%	Probl	lematic Hydrophy	ytic Vegetation	<sup>1</sup> (Explain)
10	_0	0.0%	—   1 Indica	tors of hydric soi	il and wetland h	vdrology must
Woody Vine Stratum (Plot size: 5 feet )	= 7	Total Cover	be prese	ent, unless distur	bed or problema	atic.
1,	_0 □	0.0%				
2.	0	0.0%	Hydropl Vegetat	ion		
	= -	Total Cover	Present		No O	
Remarks: (Include photo numbers here or on a separate sh	ieet.)					
Greater than 50% of the dominant species are hydrophytic,	, so the vegeta	ition criterion is	is satisfied.			

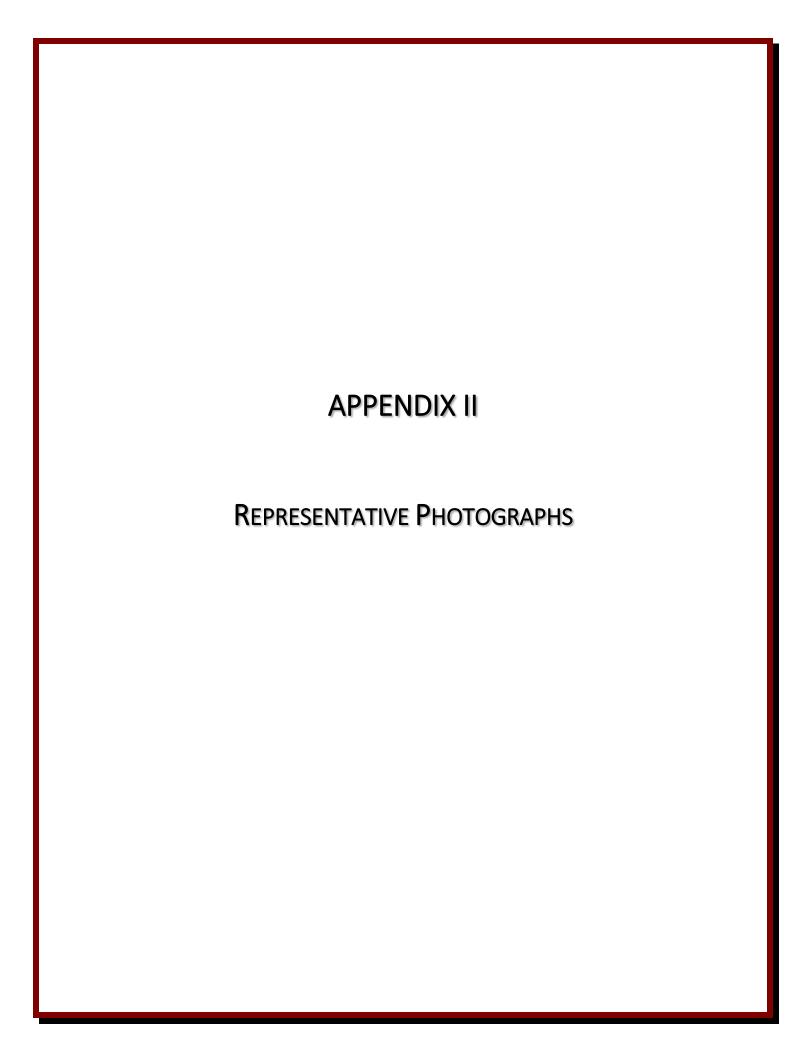
Depth	Matrix			x Features	1 .	_	_		_	_
(inches) Color	(moist) %	Colo	r (moist)	<u>% Tyr</u>	oe¹ Lo	<u>C<sup>2</sup></u>	Texture		Remar	ks
Type: C=Concentration,	D=Depletion, RM=	Reduced Matr	ix, CS=Covere	d or Coated Sa	nd Grains.	<sup>2</sup> Loc	cation: PL=Pore Li	ning. M=N	Matrix.	
Hydric Soil Indicators	:						Indicators for Pro	oblemati	ic Hydric Soils	3:
Histosol (A1)			Sandy Gleyed N	Matrix (S4)		١			•	
Histic Epipedon (A2)			Sandy Redox (	S5)		L	Coast Prairie Re	•	))	
Black Histic (A3)			Stripped Matrix	(S6)		L	Dark Surface (S	•		
Hydrogen Sulfide (A	<del>1</del> )	_	oamy Mucky N	` ,		L	Iron Manganes		. ,	
Stratified Layers (A5	)		_oamy Gleyed	` '		[	Very Shallow D	ark Surfac	ce (TF12)	
2 cm Muck (A10)			Depleted Matrix	` '		[	✓ Other (Explain	in Remarl	cs)	
Depleted Below Dark	Surface (A11)		Redox Dark Su	. ,						
Thick Dark Surface (	A12)		Depleted Dark	. ,			3			
Sandy Muck Mineral	(S1)		•	• • •			Indicators of hyd wetland hydro			
5 cm Mucky Peat or	. ,		Redox Depress	ions (F8)			unless distur			
Restrictive Layer (if ob										
IVne'										`
						—   <sub>Ну</sub>	dric Soil Present	t? Ye	es 🖭 No 🤇	)
Depth (inches): Remarks: he soil in this location f hydric soil indicators		ed to retrieve	e and could n	ot be classifi	ed. Howev				es No No	
Depth (inches):Remarks: he soil in this location		ed to retrieve	e and could n	ot be classifi	ed. Howev					
Depth (inches):Remarks: he soil in this location		ed to retrieve	e and could n	ot be classifi	ed. Howev					
Depth (inches):  Remarks: he soil in this location f hydric soil indicators  YDROLOGY  Vetland Hydrology Inc.	, so the soils crit	ed to retrieve erion is satis	e and could n fied.	ot be classifi	ed. Howev					
Depth (inches):	, so the soils crit	ed to retrieve erion is satis	e and could n fied.	ot be classifi	ed. Howev		ation of the area	a strongly		e presence
Depth (inches):  Remarks: he soil in this location f hydric soil indicators  YDROLOGY  Vetland Hydrology Inc.	, so the soils crit	ed to retrieve erion is satis	e and could n fied. that apply)	ot be classifi	ed. Howev		ation of the area	a strongly	y suggests the	e presence
Depth (inches):  Remarks:  he soil in this location f hydric soil indicators  YDROLOGY  Vetland Hydrology Inc  Primary Indicators (minir	, so the soils crit  dicators:  num of one is requ	ed to retrieve erion is satis	e and could n fied. that apply)	d Leaves (B9)	ed. Howev		Secondary In	a strongly	y suggests the minimum of two (s (B6)	e presence
Depth (inches):	, so the soils crit  dicators:  num of one is requ	ed to retrieve erion is satis	e and could n fied. that apply) Water-Staine Aquatic Faun	d Leaves (B9) a (B13)	ed. Howev		Secondary In  Surface S  Drainage	a strongly  dicators (  Goil Cracks  Patterns	y suggests the minimum of two (B6) (B10)	e presence
Depth (inches):  Remarks: he soil in this location f hydric soil indicators  YDROLOGY  Vetland Hydrology Inc Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3)	, so the soils crit  dicators:  num of one is requ	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun	d Leaves (B9) a (B13) Plants (B14)			Secondary In  Surface S  Drainage  Dry Seas	a strongly  dicators ( Goil Cracks Patterns on Water	minimum of two (B10) Table (C2)	e presence
Depth (inches):  Remarks: he soil in this location f hydric soil indicators  PyDROLOGY  Vetland Hydrology Inc Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	dicators: num of one is requ	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1)		ver, inund	Secondary In Surface S Drainage Dry Sease	a strongly  Idicators ( Goil Cracks  Patterns on Water  Burrows (	y suggests the minimum of two (B10) Table (C2) C8)	e presence
Depth (inches):  Remarks:  the soil in this location  f hydric soil indicators  IYDROLOGY  Vetland Hydrology Inc  Primary Indicators (minir  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (I	dicators: num of one is requ	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su	d Leaves (B9) a (B13) Plants (B14) lfide Odor (C1) cospheres on Li	) iving Roots	ver, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio	a strongly  dicators ( Goil Cracks  Patterns on Water  Burrows (  n Visible o	y suggests the minimum of two (B6) (B10) Table (C2) C8) on Aerial Image	e presence
Depth (inches):  Remarks:  The soil in this location  Thydric soil indicators  TyDROLOGY  Wetland Hydrology Inc  Primary Indicators (minin  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)	dicators: num of one is requ 2)	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1) cospheres on Li Reduced Iron (G	) iving Roots ( C4)	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted of	a strongly dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o	minimum of two (B6) (B10) Table (C2) C8) on Aerial Imaged Plants (D1)	e presence
Depth (inches):  Remarks:  The soil in this location  Thydric soil indicators  TYDROLOGY  Wetland Hydrology Inc  Wetland Hydrology Inc  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B	dicators: num of one is requ 2)	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F	d Leaves (B9) a (B13) Plants (B14) lifide Odor (C1) cospheres on Li Reduced Iron (Geduction in Til	) iving Roots ( C4)	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly  dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positio	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	e presence
Depth (inches):  Remarks:  The soil in this location  Thydric soil indicators  Remarks:  The soil in this location  Thydric soil indicators  Thydrology  Wetland Hydrology Inc  Primary Indicators (mining  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Drift Deposits (B3)  Algal Mat or Crust (B  Iron Deposits (B5)	dicators: num of one is requ  2)  32)	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F	d Leaves (B9) a (B13) Plants (B14) lifide Odor (C1) cospheres on Li Reduced Iron (Geduction in Til	) iving Roots ( C4)	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	e presence
Depth (inches):  Remarks:  The soil in this location  Thydric soil indicators  Remarks:  The soil in this location  Thydric soil indicators  Thydric soil indicators  Thydrology  Thydrolo	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (B	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1) cospheres on Li Reduced Iron (GReduction in Til Irface (C7) Il Data (D9)	) iving Roots ( C4)	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly  dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positio	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	e presence
Depth (inches):  Remarks:  The soil in this location  Thydric soil indicators  Remarks:  The soil in this location  Thydric soil indicators  Thydrology  Wetland Hydrology Inc  Primary Indicators (mining  Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Drift Deposits (B3)  Algal Mat or Crust (B  Iron Deposits (B5)	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (B	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	d Leaves (B9) a (B13) Plants (B14) lifide Odor (C1) cospheres on Li Reduced Iron (Geduction in Til	) iving Roots ( C4)	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly  dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positio	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	e presence
Depth (inches):  Remarks:  The soil in this location  Thydric soil indicators  Remarks:  The soil in this location  Thydric soil indicators  Thydric soil indicators  Thydrology  Thydrolo	dicators: num of one is requ  2)  B2)  Aerial Imagery (B  Concave Surface (B	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1) cospheres on Li Reduced Iron (GReduction in Til Irface (C7) Il Data (D9)	) iving Roots ( C4)	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly  dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positio	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	e presence
Depth (inches): Remarks: he soil in this location f hydric soil indicators  IYDROLOGY  Vetland Hydrology Inc Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (	dicators: num of one is requ  2)  B2)  Aerial Imagery (B  Concave Surface (B	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1) cospheres on Li Reduced Iron (GReduction in Til Irface (C7) Il Data (D9)	iving Roots C4) Iled Soils (C	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly  dicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positio	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	e presence
Depth (inches): Remarks: he soil in this location f hydric soil indicators  PyDROLOGY  Vetland Hydrology Incomprimary Indicators (mining) Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (C)  Field Observations: Surface Water Present?	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (E Concave Surface (E	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Sul Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) lifide Odor (C1) cospheres on Li Reduced Iron (C2) Reduction in Til urface (C7) II Data (D9) n in Remarks)  Lees):	iving Roots C4) Iled Soils (C	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	dicators ( Goil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positic tral Test (	minimum of two (B10) Table (C2) C8) On Aerial Imaged Plants (D1) On (D2) D5)	o required
Depth (inches): Remarks: he soil in this location f hydric soil indicators  Wetland Hydrology Inc Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B) Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (C)  Field Observations: Surface Water Present? Water Table Present?	dicators: num of one is requ  2)  32)  Aerial Imagery (B  Concave Surface (B  Yes  Yes	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) lifide Odor (C1) cospheres on Li Reduced Iron (C2) Reduction in Til urface (C7) II Data (D9) n in Remarks)  Lees):	iving Roots C4) Illed Soils (C	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted c Geomorp	a strongly adicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positic tral Test (	minimum of two (B6) (B10) Table (C2) C8) on Aerial Image of Plants (D1) on (D2)	o required
Depth (inches): Remarks: he soil in this location f hydric soil indicators  PyDROLOGY  Vetland Hydrology Incomprimary Indicators (mining) Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (C)  Field Observations: Surface Water Present?	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (B Concave Surface (B Yes Yes Ves	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Sul Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) ifide Odor (C1) cospheres on Li Reduced Iron (i Reduction in Til urface (C7) II Data (D9) n in Remarks)  des): 2	iving Roots C4) Illed Soils (C	rer, inund	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted o Geomorp FAC-Neut	a strongly adicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positic tral Test (	minimum of two (B10) Table (C2) C8) On Aerial Imaged Plants (D1) On (D2) D5)	o required  ry (C9)
Depth (inches): Remarks: The soil in this location In thi	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (B Concave Surface (B Yes Yes Yes Yes	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Sul Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1) cospheres on Li Reduced Iron (C2) Reduction in Til Irface (C7) Il Data (D9) n in Remarks)  Lees): Lees): Lees):	iving Roots C4) Illed Soils (C	(C3) Wetland I	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted of Geomorp FAC-Neut	a strongly adicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positic tral Test (	minimum of two (B10) Table (C2) C8) On Aerial Imaged Plants (D1) On (D2) D5)	o required
Depth (inches): Remarks: he soil in this location f hydric soil indicators  IYDROLOGY  Vetland Hydrology In- Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (C) Field Observations: Surface Water Present? Vater Table Present?	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (B Concave Surface (B Yes Yes Yes Yes	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Sul Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) Ifide Odor (C1) cospheres on Li Reduced Iron (C2) Reduction in Til Irface (C7) Il Data (D9) n in Remarks)  Lees): Lees): Lees):	iving Roots C4) Illed Soils (C	(C3) Wetland I	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted of Geomorp FAC-Neut	a strongly adicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positic tral Test (	minimum of two (B10) Table (C2) C8) On Aerial Imaged Plants (D1) On (D2) D5)	o required  ry (C9)
Depth (inches): Remarks: The soil in this location In hydric soil indicators  Primary Indicators (mining) Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (C) Sparsely Vegetated (C)  Field Observations: Surface Water Present? Saturation Present? Saturation Present? Saturation Present? Sincludes capillary fringe)	dicators: num of one is requ  2)  32)  44)  A Aerial Imagery (E Concave Surface (E Yes Yes Yes Ca (stream gauge	ed to retrieve erion is satis	that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	d Leaves (B9) a (B13) Plants (B14) Iffide Odor (C1) Iospheres on Li Reduced Iron (I Reduction in Til Irface (C7) II Data (D9) In in Remarks) In the season of the season o	oiving Roots (C4) Illed Soils (C	(C3) Wetland I	Secondary In Surface S Drainage Dry Sease Crayfish I Saturatio Stunted of Geomorp FAC-Neut	a strongly adicators ( Soil Cracks Patterns on Water Burrows ( n Visible o or Stresse hic Positic tral Test (	minimum of two (B10) Table (C2) C8) On Aerial Imaged Plants (D1) On (D2) D5)	o required  ry (C9)

Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County	/: Naperville/D	uPage Sampling Date: 13-Jun-19
Applicant/Owner: Lincoln Property Company Commercial Inc.		State:	IL Sampling Point: X18
Investigator(s): A. Metzger, D. Jablonski	Section,	Township, Range	: S 5 T 38N R 10E
Landform (hillslope, terrace, etc.): Flat		Local relief (d	concave, convex, none): flat
Slope:	Lone	— 9∴ -88.121915	Datum: NAD 1983
Soil Map Unit Name: Orthents, clayey (805B)		00:121713	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of	vear2 Yes ● No	O (If no. ex	xplain in Remarks.)
	gnificantly disturbed?		ormal Circumstances" present?
	aturally problematic?		or curriculation present.
Are Vegetation, Soil, or Hydrology n.  SUMMARY OF FINDINGS - Attach site map show	, ,	•	ded, explain any answers in Remarks.)  ns, transects, important features, etc.
Hydrophytic Vegetation Present? Yes  No O	I		
Hydric Soil Present? Yes No		s the Sampled A	
Wetland Hydrology Present? Yes No	l v	ithin a Wetland	d? Yes  ● No ○
Remarks:			
This location satisfies all three criteria and qualifies as wetl	and.		
1000000000000000000000000000000000			
<b>VEGETATION -</b> Use scientific names of plan	ts. <b>Domi</b> r <b>Speci</b>		
To (District 20 foot	Absolute Rel.St	rat. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet )	% Cover Cov	er Status )%	Number of Dominant Species
1 2		)%	That are OBL, FACW, or FAC: (A)
3		)%	Total Number of Dominant
4		)%	Species Across All Strata: (B)
5.		)%	Percent of dominant Species That Are OBL FACW or FAC: 100.0% (A/B)
	0 = Total	Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
<u>Sapling/Shrub Stratum (Plot size: 15 feet</u> )			Prevalence Index worksheet:
1		)%	Total % Cover of: Multiply by:
2		)%	OBL species 0 x 1 = 0
4		)% )%	FACW species 0 x 2 = 0 FAC species 80 x 3 = 240
5.		)%	FAC species 80 x 3 = 240 FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5 feet )	0 = Total	Cover	UPL species $0 \times 5 = 0$
1 Poa pratensis	80 🗹 100	.0% FAC	Column Totals: 80 (A) 240 (B)
2.		)% FAC	
3		)%	Prevalence Index = B/A = 3.000
4		)%	Hydrophytic Vegetation Indicators:
5.		)%	1 - Rapid Test for Hydrophytic Vegetation
6		)%	<ul> <li>2 - Dominance Test is &gt; 50%</li> <li>3 - Prevalence Index is ≤3.0 ¹</li> </ul>
7		)%	4 - Morphological Adaptations ¹ (Provide supporting)
89.		)%	data in Remarks or on a separate sheet)
10		)% )%	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	80 = Total		$\frac{1}{a}$ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5 feet )			be present, unless disturbed or problematic.
1		)%	Hydrophytic
2		<u>)%</u>	Vegetation
	0 = Total	Cover	Present? Yes No O
Domarks: (Include phote numbers here or on a service of	aget )		
Remarks: (Include photo numbers here or on a separate shape deminant species is hydrophytic, so the vegetation still	•		
The dominant species is hydrophytic, so the vegetation crit	CHOILIS SAUSHEU.		

Profile Description: (Describe to the dept	h needed to document	the indica	ator or co	nfirm the	e absence of indicators	5.)	
Depth Matrix		ox Feature			_		
(inches) Color (moist) %	Color (moist)		Type 1	Loc <sup>2</sup>	Texture	_ <u>Remark</u> Mixed fill	KS
0-12 10YR 3/2	10YR4/6	10	C	М	Silty Clay Loam		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re	educed Matrix. CS=Covere	d or Coated	d Sand Gra	ains.	<sup>2</sup> Location: PL=Pore Lin	ing. M=Matrix.	
Hydric Soil Indicators:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						3 -
Histosol (A1)	☐ Sandy Gleyed	Matrix (S4)			Indicators for Pro	blematic Hydric Soils	~:
Histic Epipedon (A2)	Sandy Redox (				Coast Prairie Re	dox (A16)	
☐ Black Histic (A3)	Stripped Matri				☐ Dark Surface (S	•	
Hydrogen Sulfide (A4)	Loamy Mucky	` ,	)		Iron Manganese	e Masses (F12)	
Stratified Layers (A5)	Loamy Gleyed				Very Shallow Da	ark Surface (TF12)	
2 cm Muck (A10)	Depleted Matr				Other (Explain in	n Remarks)	
Depleted Below Dark Surface (A11)	Redox Dark Su	` '					
☐ Thick Dark Surface (A12)	Depleted Dark	. ,	7)		3 - 11 - 51 - 1		
Sandy Muck Mineral (S1)	Redox Depress	•	, )			rophytic vegetation and logy must be present,	
5 cm Mucky Peat or Peat (S3)	Redux Depres.	nons (1 0)				ped or problematic.	
Restrictive Layer (if observed):							
Туре:							
Depth (inches):					Hydric Soil Present	? Yes 💿 No 🗆	)
Remarks:					•		
This profile exhibits hydric soil field indica	tor F6 Padov Dark Sui	face and	caticfiec	the soils	criterion		
This profile exhibits flydric son field indied	tor 10, redux bark Sur	race, and	Satisfies	ti ic 30ii3	Criccion.		
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one is require						dicators (minimum of two	required
✓ Surface Water (A1)	☐ Water-Staine	•	B9)			oil Cracks (B6)	
High Water Table (A2)	Aquatic Faur	ia (B13)			☐ Drainage	Patterns (B10)	
Saturation (A3)	True Aquatio	Plants (B1	4)		☐ Dry Seaso	n Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sı	Ilfide Odor	(C1)		Crayfish B	urrows (C8)	
Sediment Deposits (B2)	Oxidized Rhi	zospheres o	n Living R	oots (C3)	☐ Saturation	ı Visible on Aerial Imager	y (C9)
☐ Drift Deposits (B3)	Presence of	Reduced Iro	on (C4)		☐ Stunted o	r Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron	Reduction i	n Tilled Sc	ils (C6)	Geomorph	nic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck S	urface (C7)			FAC-Neutr	ral Test (D5)	
Inundation Visible on Aerial Imagery (B7)	Gauge or We	ell Data (D9	)				
Sparsely Vegetated Concave Surface (B8)	Other (Expla	in in Remar	rks)				
Field Observations:							
	Depth (inc	nes):	1				
	Depth (inc	nes):					$\overline{}$
Water Table Present? Yes No				Wet	land Hydrology Presen	t? Yes 💿 No	$\supset$
Water Table Present? Yes No Saturation Present? Yes No	Depth (incl	nes):		Wet		t? Yes 🖲 No 🤆	)
Water Table Present? Yes No Saturation Present? Yes No	Depth (incl	nes):		Wet		t? Yes • No	O
Water Table Present? Yes No Saturation Present? Yes No No Describe Recorded Data (stream gauge, r	Depth (incl	nes):		Wet		t? Yes   No	)
Water Table Present? Yes No Saturation Present? Yes No	Depth (incl	nes):		Wet		t? Yes   No	
Water Table Present? Yes No Saturation Present? Yes No No Describe Recorded Data (stream gauge, r	Depth (incomonitoring well, aerial	nes):	evious in	spections		t? Yes   No	

nvestigator(s): A. Metzger, D. Jablonski  Section, Township, Range: S 5 T 38N R 10E  andform (hillslope, terrace, etc.): Lowland  Local relief (concave, convex, none): flat	Project/Site: 1960 & 2000 Lucent Ln and Vacant Prop to NW	City/County: Naperville/Di	uPage Sampling Date: 13-Jun-19
Desire   Content   Conte	Applicant/Owner: Lincoln Property Company Commercial Inc.	State:	IL Sampling Point: X19
	Investigator(s): A. Metzger, D. Jablonski	Section, Township, Range:	: S 5 T 38N R 10E
Note   Section	Landform (hillslope, terrace, etc.): Lowland		concave, convex, none): flat
Note   Martinion silt   Deminant   Martinion silt   Deminant   Martinion silt   Deminant   Demina	Slope: 0.0% / 0.0 ° Lat.; 41.820580		
re climatic/hydrologic conditions on the site typical for this time of year? Yes No C (If no, explain in Remarks.)  re Vegetation   , sol   , or hydrology   significantly disturbed? Are "kornal Circumstances" present? Yes No C   Vera Geation   , sol   , or hydrology   maturally problemate? (if needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Fiverophytic Vegetation Present? Yes No C   Is the Sampled Area within a Wetland? Yes No C   No C   Vera Geating Present?   Yes No C   Yes No C   Vera Geating Present?   Yes No C   Yes Yes No C   Yes	12102000	2511911 -00.123701	
very expectation   , soil   , or Hydrology   slamificantly disturbed?   Are "Normal Groumstances" present?   Yes   No   very expectation   , soil   , or Hydrology   naturally problematic?   (If needed, explain any answers in Remarks.)   SWMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.   Hydrophytic Vegetation Present?   Yes   No		Yes No (If no e)	
### Statum (Plot size: 15 feet )    Commonwealth			· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Productivity Vegetation Present? Yes  No  Wedard Hydrology Resent? Yes  No  No  Wedard Hydrology Resent? Yes  No  Wedard Hydrology Resent? Yes  No  No  No  No  No  No  No  No  No  N			ornar circumstances present.
Tree Stratum (Plot size: 30 feet 1)	s — , — , , s, —	(	
State   Sampled Area   Yes   No   No   Wetland Hydrology Present?   Yes   No   No   No   No   No   No   No   N			,
Ves		Is the Sampled A	
Non-cation satisfies all three criteria and qualifies as wetland.	,, , , , , , , , , , , , , , , , , , , ,	within a Wetland	d? Yes ● No ○
Tree Stratum. (Plot size: 30 feet   )			
Tree Stratum (Plot size: 30 feet   1		land	
Absolute	This location satisfies all timee criteria and qualifies as wet	iana.	
Absolute			
Absolute   Rei.Strat.   Michicator   Number of Dominance Test worksheet:   Number of Dominant Species   That are OBL, FACW, or FAC:   2 (A)	<b>VEGETATION -</b> Use scientific names of plan		
1. Fraxinus pennsylvanica 2. 0	- 20 foot	Absolute Rel.Strat. Indicator	Dominance Test worksheet:
2.			
3.			That are OBL, FACW, or FAC: (A)
4.			
Sablina/Shrub Stratum (Plot size: 15 feet   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%   10.0%			Species Across All Strata:
10	_		
1.		= Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
2.	<u>Sapling/Shrub Stratum (</u> Plot size: 15 feet )		Prevalence Index worksheet:
3.			
4.			
5.			
Herb Stratum (Plot size: 5 feet   )	-		
1 Phalaris arundinacea  80			I
2. Apocynum cannabinum  3.			
3.	-		
4.			Prevalence Index = B/A = 2.100
5.			1
6.			1_
8.			
9.	-	0	
10.			data in Remarks or on a separate sheet)
1   1   1   1   1   1   1   1   1   1			$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Woody Vine Stratum (Plot size: 5 feet )  1	10.		1 Indicators of hydric soil and wetland hydrology must
2	<u>Woody Vine Stratum</u> (Plot size: <u>5 feet</u> )	90 = 10tal Cover	
Remarks: (Include photo numbers here or on a separate sheet.)		0 0.0%	Under about
Remarks: (Include photo numbers here or on a separate sheet.)	2		Vegetation
		0 = Total Cover	Present? Yes ♥ No ∪
			1
All of the dominant species are hydrophytic, so the vegetation criterion is satisfied.	, , , ,	,	
	All of the dominant species are hydrophytic, so the vegeta	tion criterion is satisfied.	

Profile Desc	Matri	7		Redo	ox Featu	res			
Depth (inches)	Color (moist)	<u>%</u>	Color (me		<u>%</u>	_Type <sup>1</sup>	Loc2	Texture	Remarks
0-11	10YR 2/1		10YR	6/8	20	С	М	Silt Loam	
11-15	2.5Y 4/2		10YR	6/6	15%	С	М	Silty Clay Loam	=
			10YR	6/1	5%	D	М		
Type: C=Cor	ncentration, D=Deple	tion, RM=Redu	ced Matrix, CS	S=Covere	d or Coate	ed Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soil		<u> </u>	, , , , , , , , , , , , , , , , , , ,						lematic Hydric Soils <sup>3</sup> :
Histosol			Sandy	y Gleyed I	Matrix (S4	ł)			•
Histic Epi	ipedon (A2)			y Redox (	-			Coast Prairie Red	` '
Black His			Stripp	ed Matrix	(S6)			☐ Dark Surface (S7	
_	n Sulfide (A4)		Loam	y Mucky N	Mineral (F	1)		☐ Iron Manganese	• •
	Layers (A5)		Loam	y Gleyed	Matrix (F2	2)		☐ Very Shallow Dar	• •
2 cm Mu	. ,		Deple	eted Matri	x (F3)			Other (Explain in	Remarks)
	Below Dark Surface	(A11)	Redox	x Dark Su	rface (F6)	)			
	rk Surface (A12)		Deple	eted Dark	Surface (	F7)		<sup>3</sup> Indicators of hydro	phytic vegetation and
_ '	uck Mineral (S1)		Redox	x Depress	ions (F8)			wetland hydrolo	gy must be present, ed or problematic.
	cky Peat or Peat (S3							unless disturbe	ed of problematic.
	Layer (II Observed	•							
Туре:		-						Hvdric Soil Present?	Yes • No O
Type: Depth (inc Remarks:	ches):		A11, Deplet	ted Belov	w Dark S	Surface, ar	nd satisfie	Hydric Soil Present? es the soils criterion.	Yes ● No ○
Type: Depth (inc Remarks:	ches):		A11, Deplet	ted Belov	w Dark S	Surface, ar	nd satisfie		Yes ● No ○
Type: Depth (ind Remarks: This profile e	ches):exhibits hydric soil		A11, Deplet	ted Belov	w Dark S	Surface, ar	nd satisfie		Yes ● No ○
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04/22/2019

View of Area 1 facing northeast.



# PHOTO 2

04/22/2019

View of Area 1 facing north.



# РНОТО 3

04/22/2019

View of Area 1 facing southwest.



04/22/2019

View of Area 2 facing north.



# PHOTO 5

04/22/2019

View of Area 2 facing northeast.



# РНОТО 6

04/22/2019

View of Area 2 facing south.



04/22/2019

View of Area 3 facing southeast.



# **PHOTO 8**

04/22/2019

View of Area 3 facing northeast.



# **РНОТО 9**

06/13/2019

View of Area 3 facing northwest.



04/22/2019

View of Area 4 facing northeast.



# **PHOTO 11**

04/22/2019

View of Area 4 facing northwest.



### **PHOTO 12**

04/22/2019

View of Area 4 facing northeast.



04/22/2019

View of Area 5 facing northeast.



# **PHOTO 14**

04/22/2019

View of Area 5 facing southwest.



### **PHOTO 15**

04/22/2019

View of Area 5 facing north.



04/22/2019

View of the drainageway in Area 6 facing north.



# **PHOTO 17**

04/22/2019

View of the emergent wetland in Area 6 facing southwest.



### **PHOTO 18**

04/22/2019

View of the drainageway in Area 6 facing south.



04/22/2019

View of Area 7 facing southeast.



# **PHOTO 20**

04/22/2019

View of Area 8 facing south.



# PHOTO 21

06/13/2019

View of Area 9 facing northeast.



06/13/2019

View of Area 10 facing southeast.



# **PHOTO 23**

06/13/2019

View of Area 11, facing east.



# **PHOTO 24**

06/13/2019

View of Area 12 facing northeast.



04/22/2019

View of Area 13, a man made roadside ditch, facing south.



# **PHOTO 26**

04/22/2019

View of upland Area 14 near Data Point X01 facing north.



### **PHOTO 27**

04/22/2019

View of upland Area 15 near Data Point X02 facing southwest.



04/22/2019

View of upland Area 16 near Data Point X04 facing northeast.



# **PHOTO 29**

04/22/2019

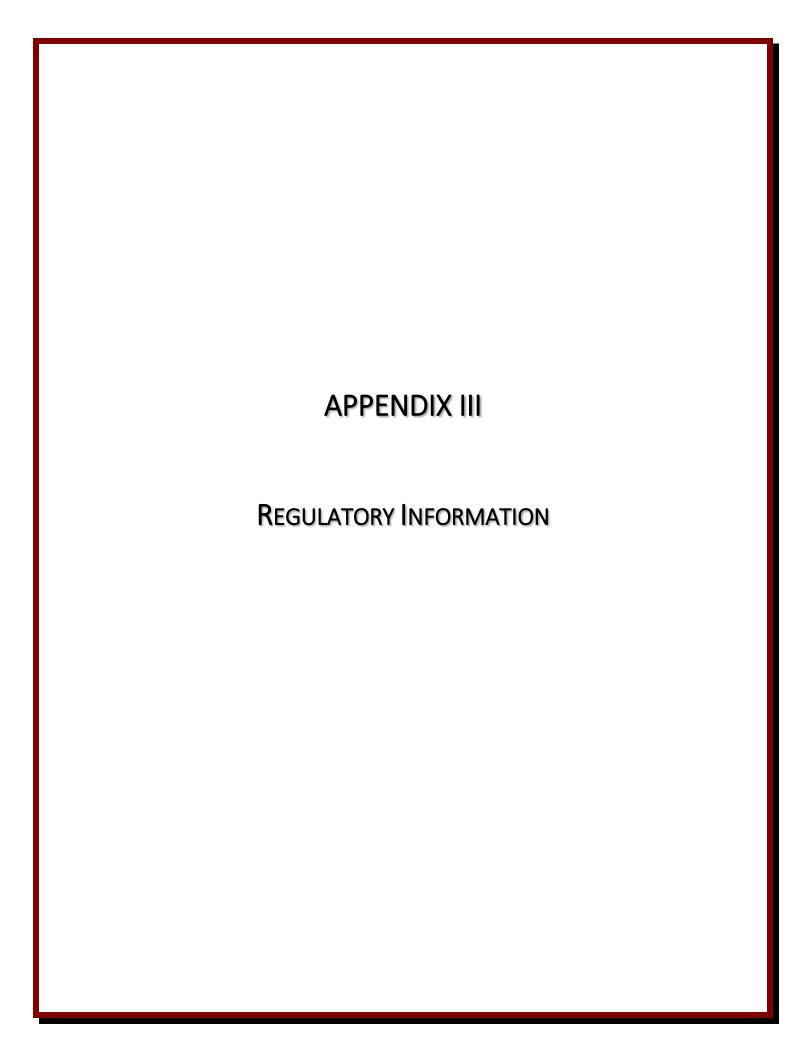
View of Area 17 near Data Point X06 facing southwest.



### **PHOTO 30**

04/22/2019

View of Area 18, the spoil pile, facing south.



#### **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 (Waters). Jurisdictional areas include rivers, streams, tributaries, lakes, natural ponds and wetlands adjacent (bordering, contiguous or neighboring) to these areas. A tributary is characterized by the presence of physical indicators of flow (bed and bank, ordinary high water mark) that contribute flow directly or through another Waters to a traditional navigable or interstate water. Ditches that meet certain criteria can be considered a tributary. Swales and erosional features are generally not considered to be tributaries or Waters.

Wetlands not considered adjacent waters, but located within 4,000 feet of the high tide line or ordinary water mark of traditional navigable waters, interstate waters, or a jurisdictional tributary, can be jurisdictional if they have a significant nexus to a traditional navigable or interstate waters (floodplain Waters/wetlands). A significant nexus determination will be based on hydrologic and ecological factors.

Wetlands not considered adjacent to jurisdictional Waters are considered isolated wetlands and are not regulated under the Clean Water Act.

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. Currently, 52 nationwide permits have been issued. They became effective on March 19, 2017, and will expire on March 18, 2022.

Within the boundaries of the Chicago District, USACE, most NWPs were replaced with the Regional Permit Program (RPP), which were reissued on April 1, 2012 and will expire on April 1, 2017. Category I RPPs will generally authorize impacts of 0.50 acres or less. Category II RPPs will authorize impacts of between 0.50 acres and 1.0 acre. Any projects proposing impacts to High Quality Aquatic Resources will be processed under Category II. Compensatory wetland mitigation, at a ratio of 1.5:1, is required for all projects that impact more than 0.10 acre. Mitigation for impacts to High Quality Aquatic Resources typically is required at a higher ratio (generally 3:1 or greater).

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.

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<sup>[1]</sup> Obama 2015 Clean Water Rule, as of August 16, 2018

Wetland impacts greater than 1.0 acre will require authorization under an individual permit (IP), which requires greater scrutiny of the proposed project by the USACE and other concerned government agencies, and a comment period from the general public.

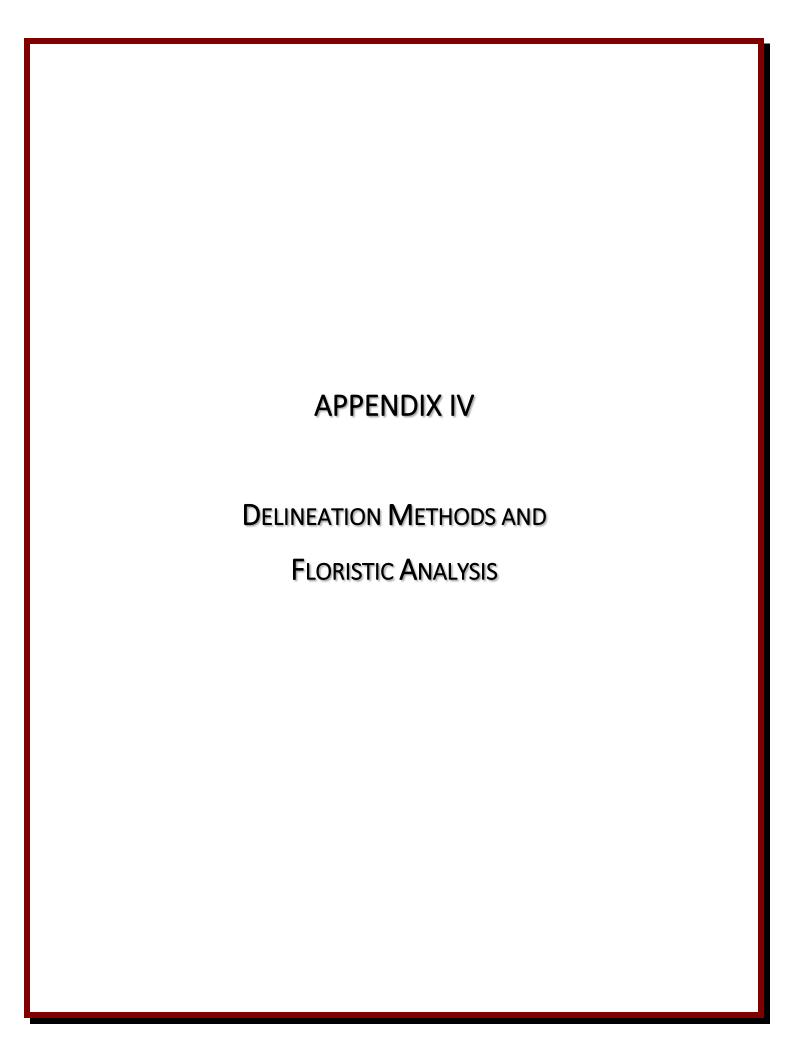
#### **DUPAGE COUNTY ORDINANCE**

Pursuant to the 2013 *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. Jurisdictional wetland determinations 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. The assessment criteria are listed and addressed in Appendix V.

Under the DuPage County Ordinance, a narrative description of measures taken to avoid and minimize wetland impacts is required for all wetlands greater than 0.1 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.

For projects which occur in partial waiver communities, where the wetland review is conducted by the DuPage County Department of Economic Development & Planning (EDP), the Corps of Engineers has issued General Permit (GP) Number 25, Programmatic General Permit for Activities Requiring Review under Section 404 of the Clean Water Act Within the Established Boundaries of DuPage County, Illinois. GP 25 authorizes the EDP to conduct technical reviews on behalf of the Corps of Engineers for projects with minimal impacts to the aquatic environment, including wetlands. Upon the completion of the technical review by EDP, the Corps of Engineers will authorize a project in accordance with the General Permit. In full waiver communities, such as Downers Grove, the community engineer has authority under the ordinance "to review and approve all applications for development in all areas under its jurisdiction." (§15-31.3 of the County Ordinance).



#### 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 in 2016. 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 W	/etland 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 8.0; NRCS, 2016). 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.

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

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 a Category II Regional Permit or Individual Permit 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. An ADID map for the subject property is 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://www.dnr.illinois.gov/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.

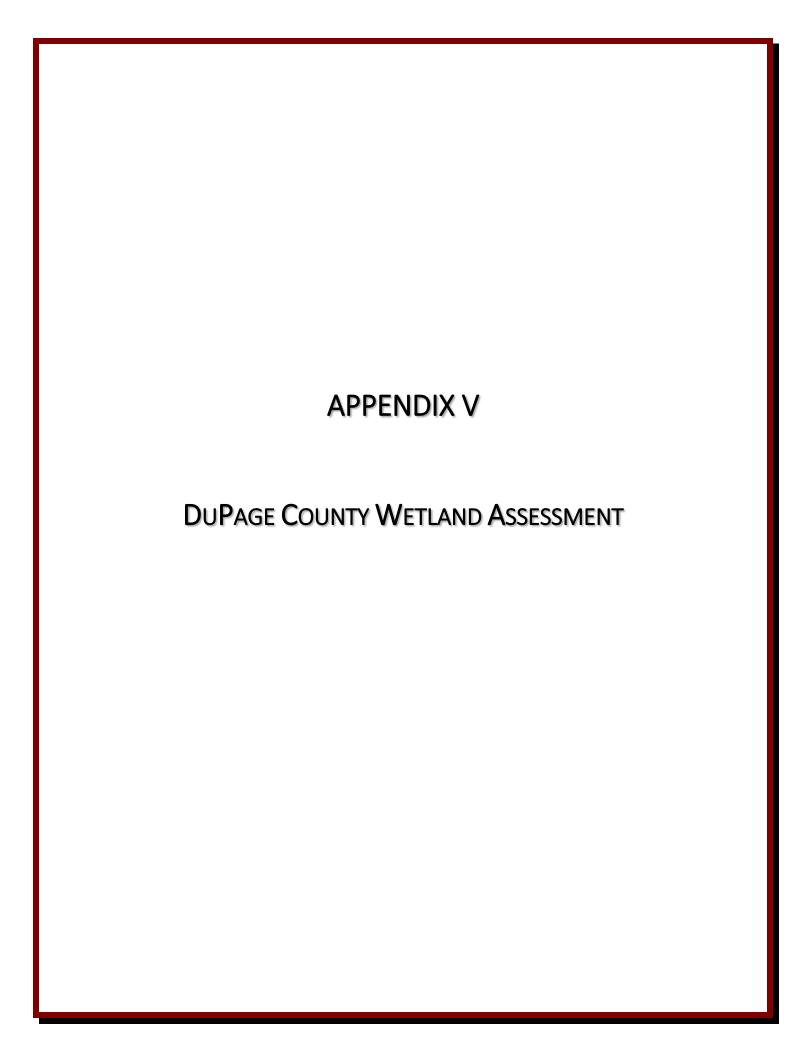
Wetlands Supporting Federal or Illinois Endangered or Threatened Species: An Agency Action Report is routinely requested from the Illinois Department of Natural Resources (IDNR) and from the U.S. Fish and Wildlife Service (USFWS) for wetland delineations. These reports indicate the likelihood of listed 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. This inquiry is preliminary and does not preclude the presence of otherwise unrecorded listed species.

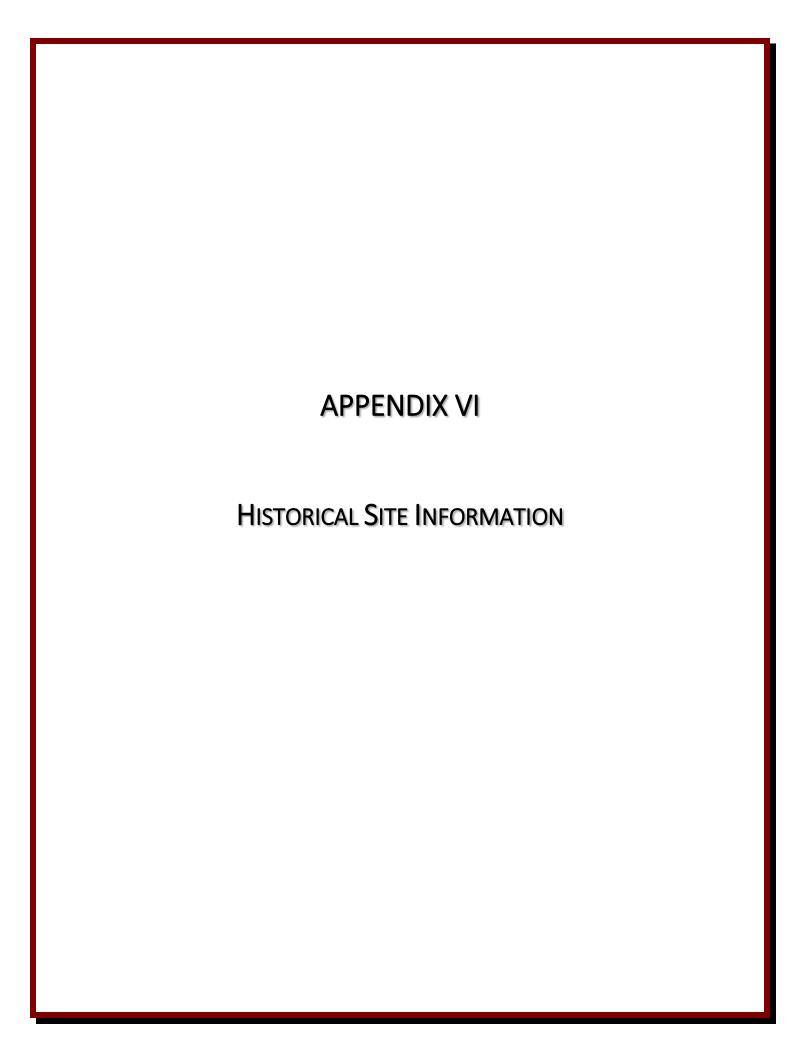
Wetlands with a Floristic Quality Index of 20 or greater or a mean C-value of 3.5 or greater: Plant species inventories collected during wetland delineations are used to generate floristic quality values using the Floristic Quality Assessment method published in *Plants of the Chicago Region* (Swink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

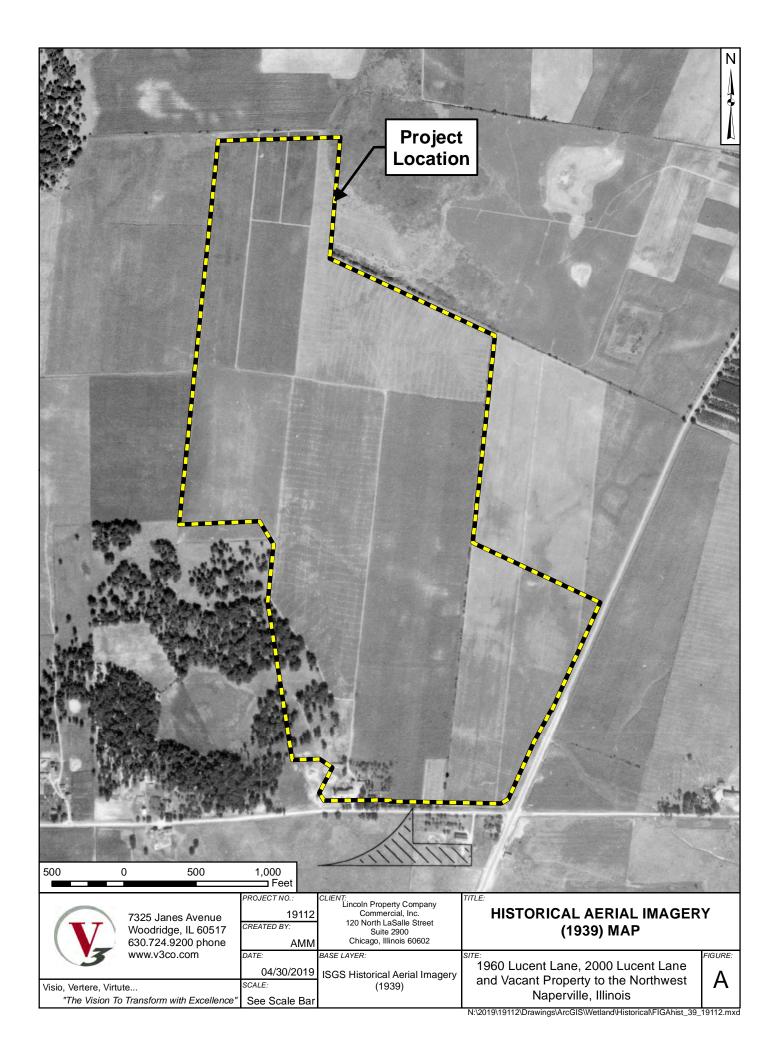
## STREAM CLASSIFICATION WITHIN THE CHICAGO DISTRICT

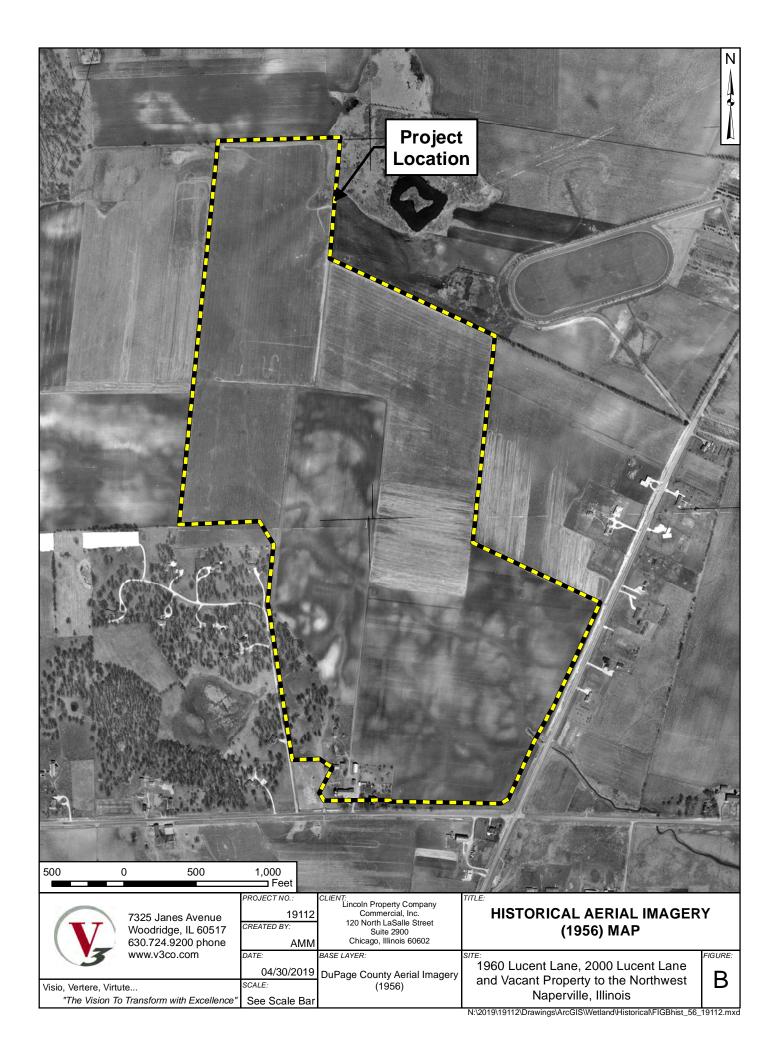
The historical Class A and B rating system was replaced with the new Illinois Department of Natural Resources stream classification system that can be found at:

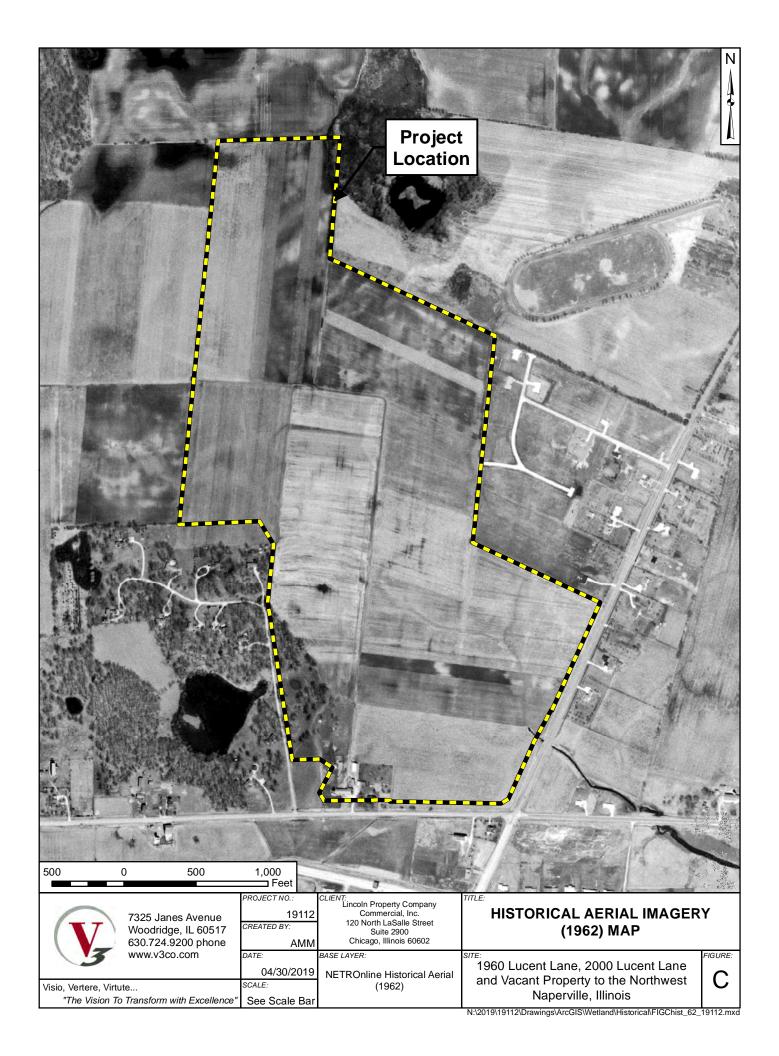
https://www.dnr.illinois.gov/conservation/BiologicalStreamratings/Pages/default.aspx

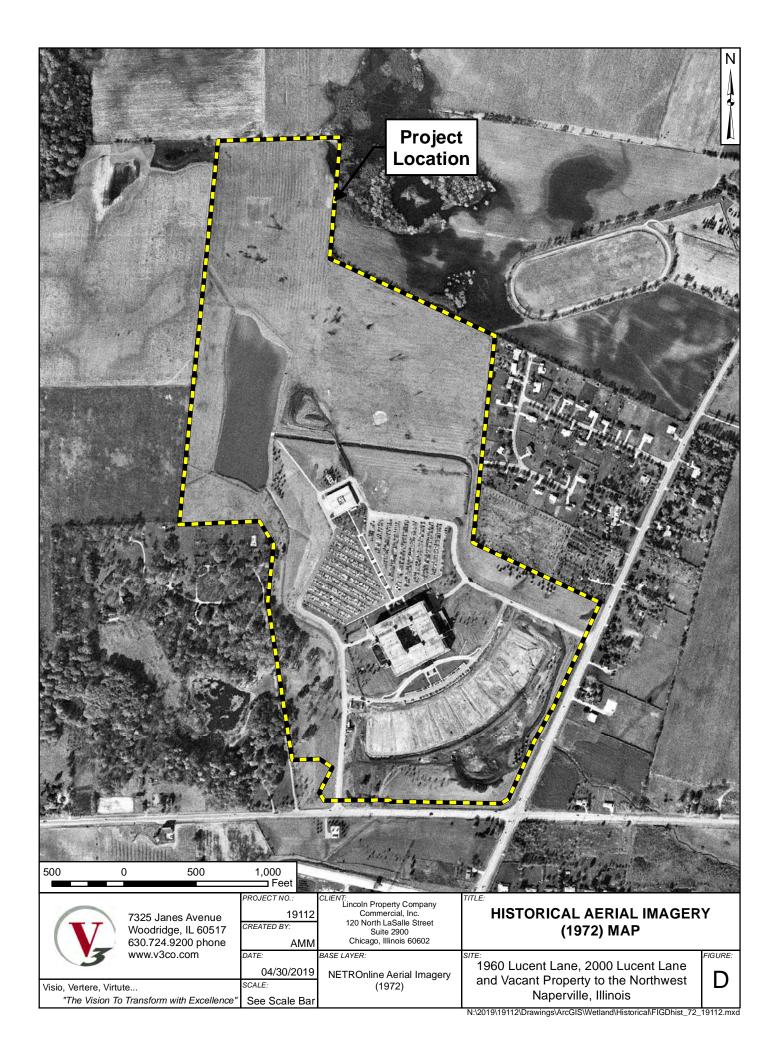


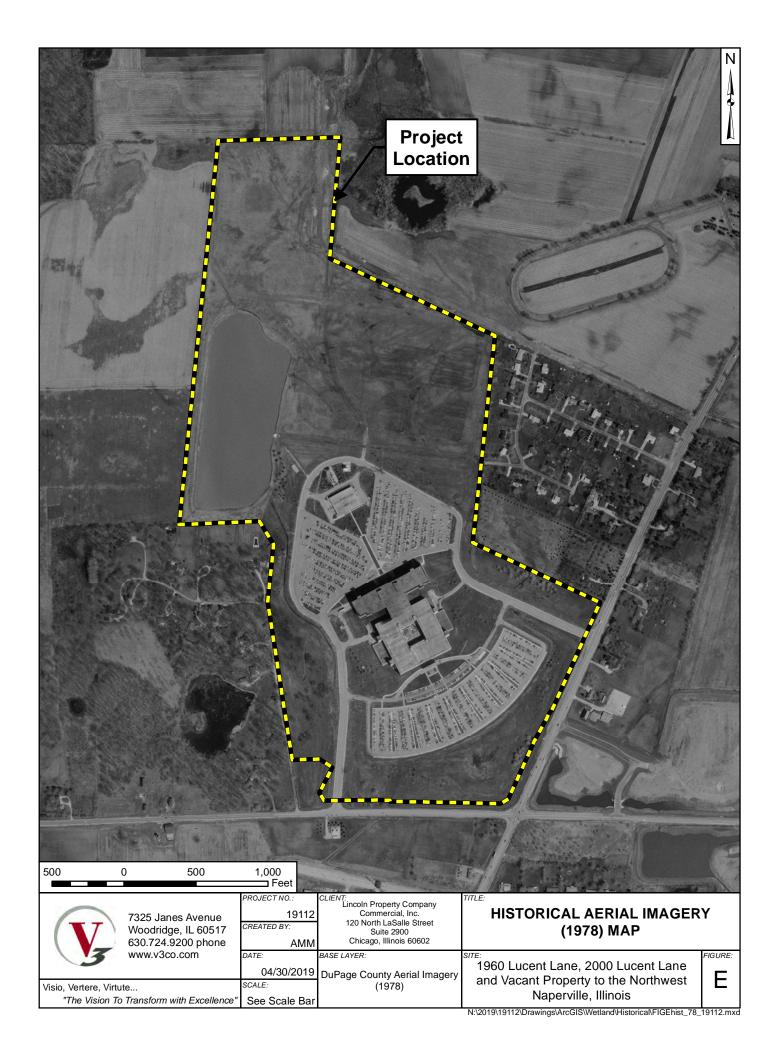


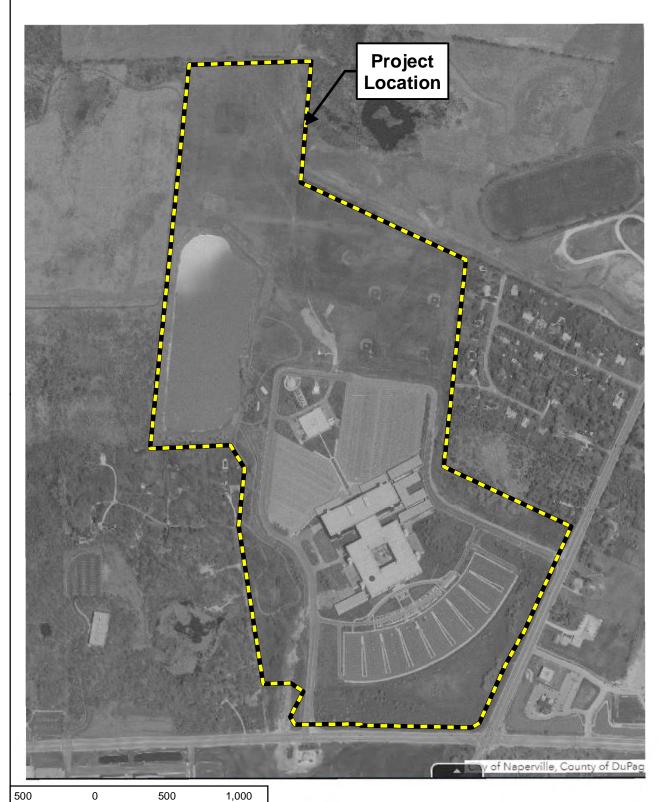


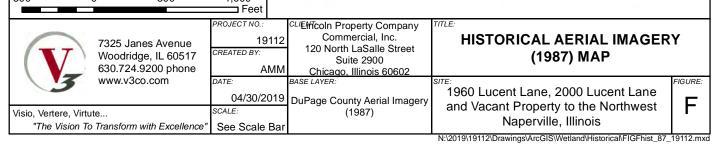


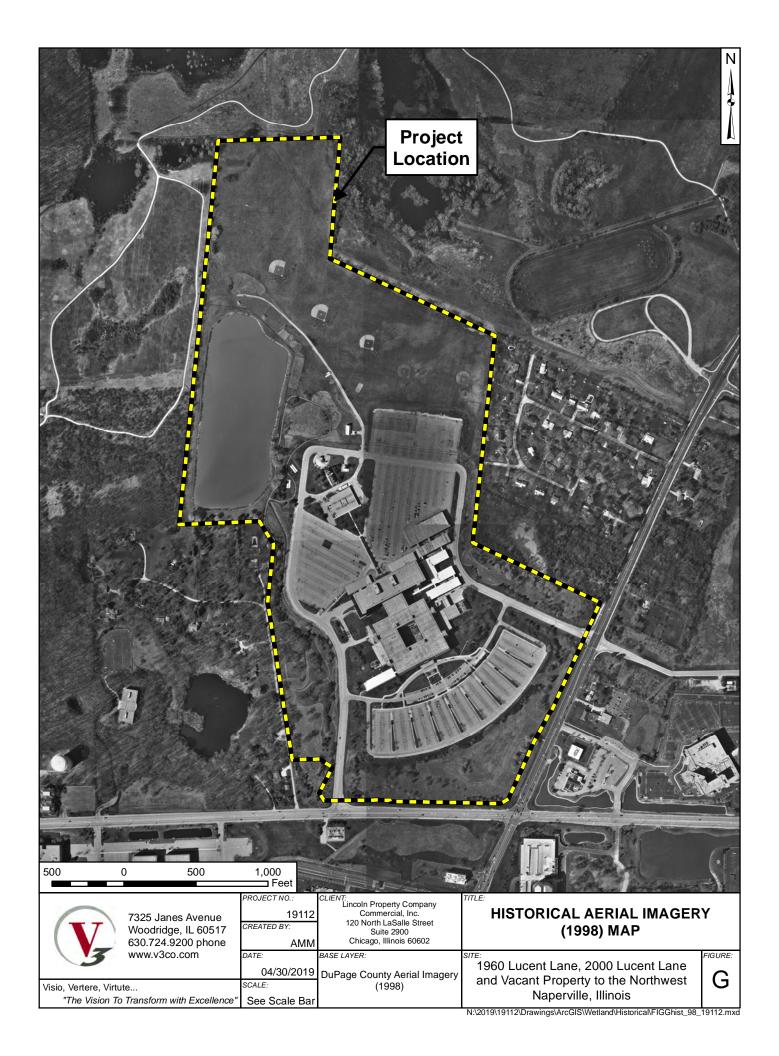


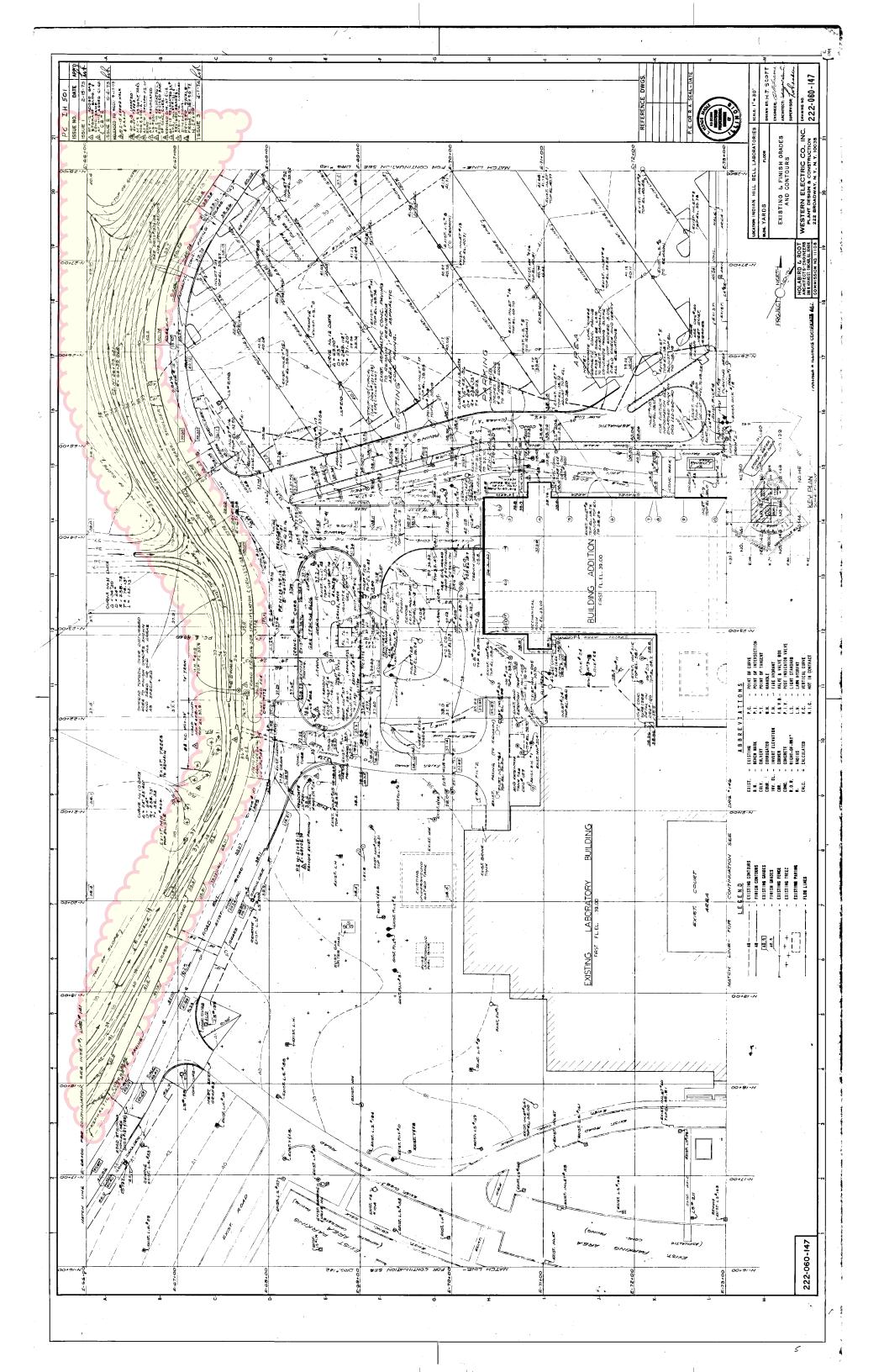


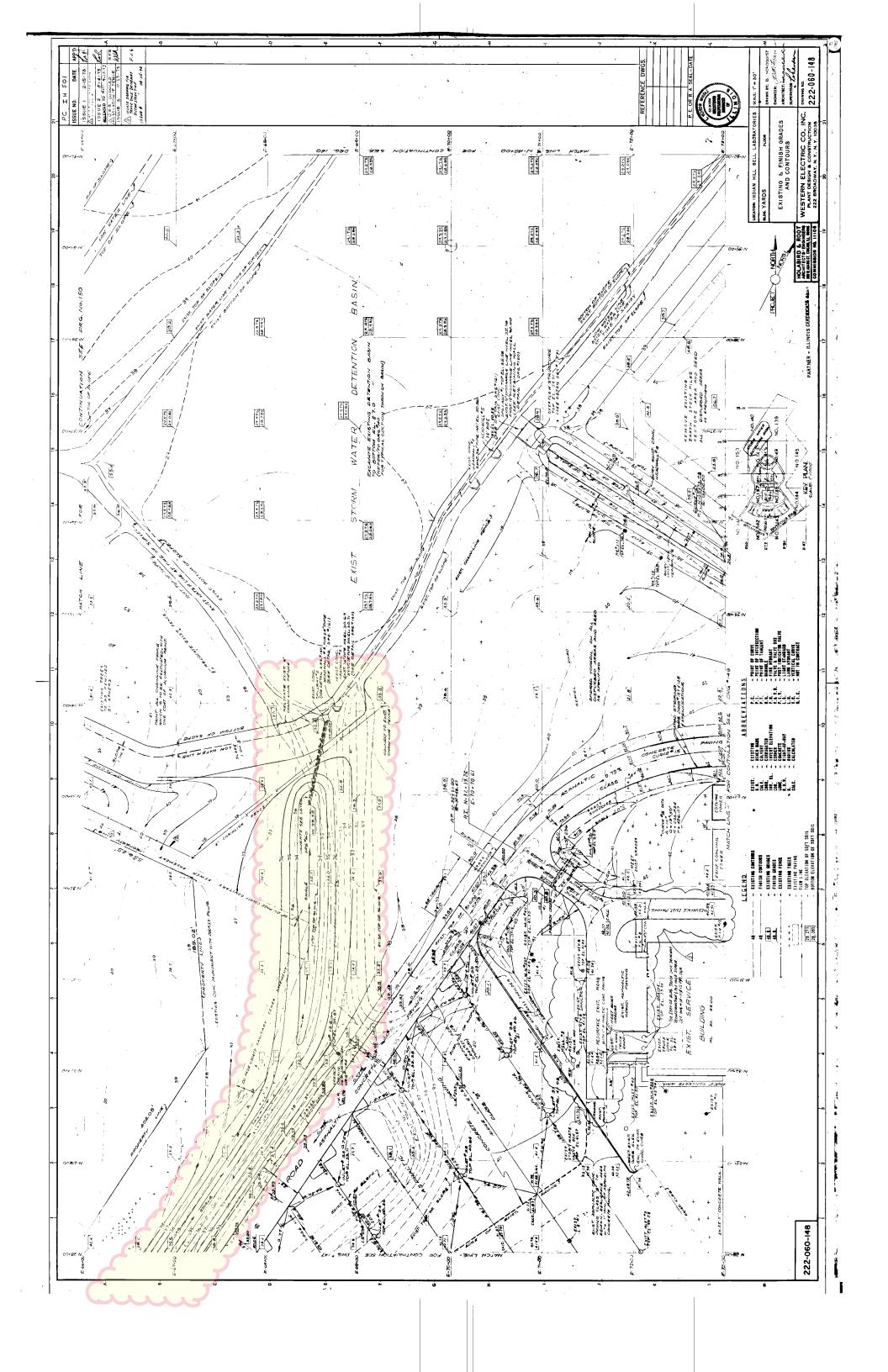


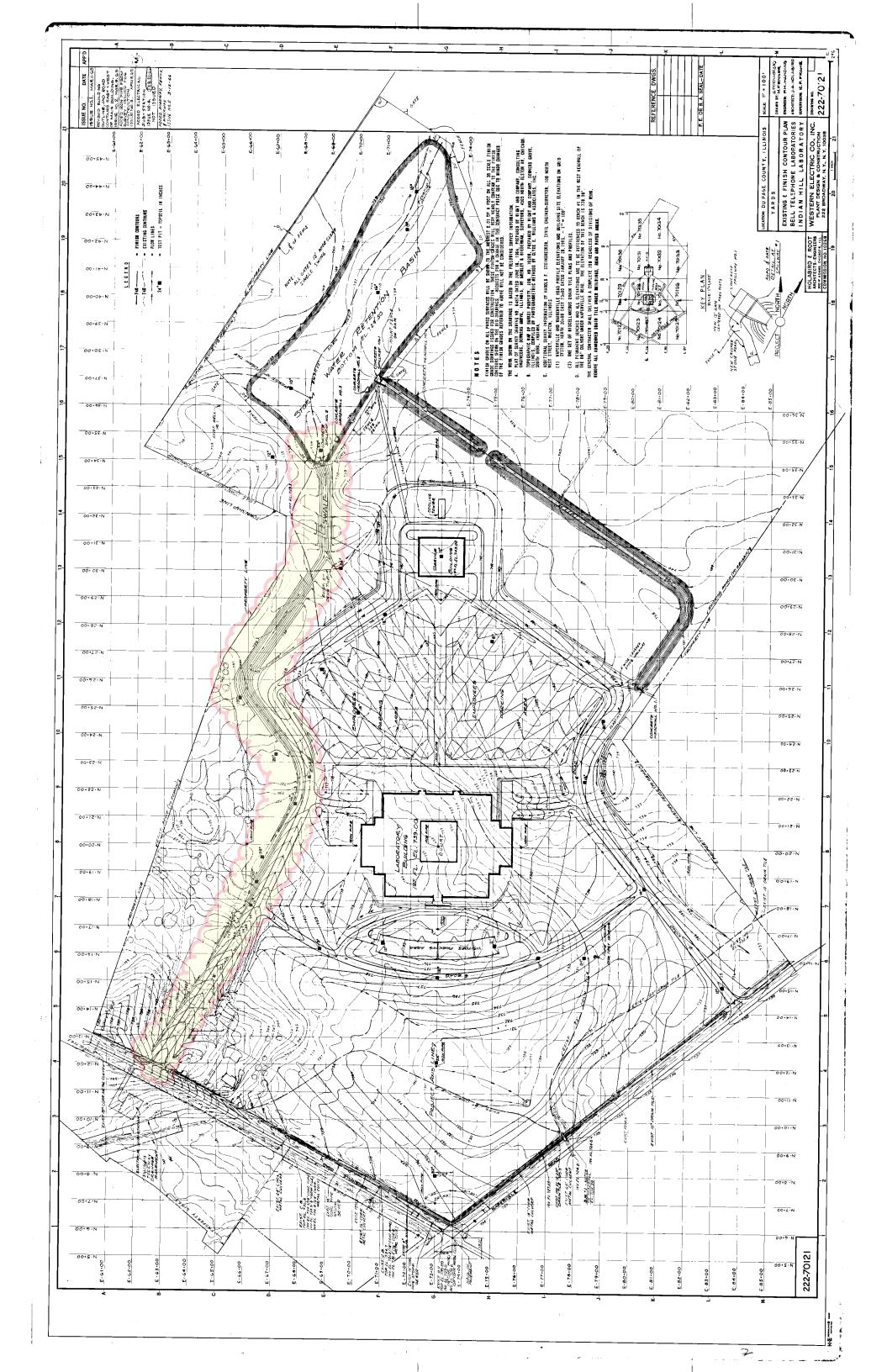


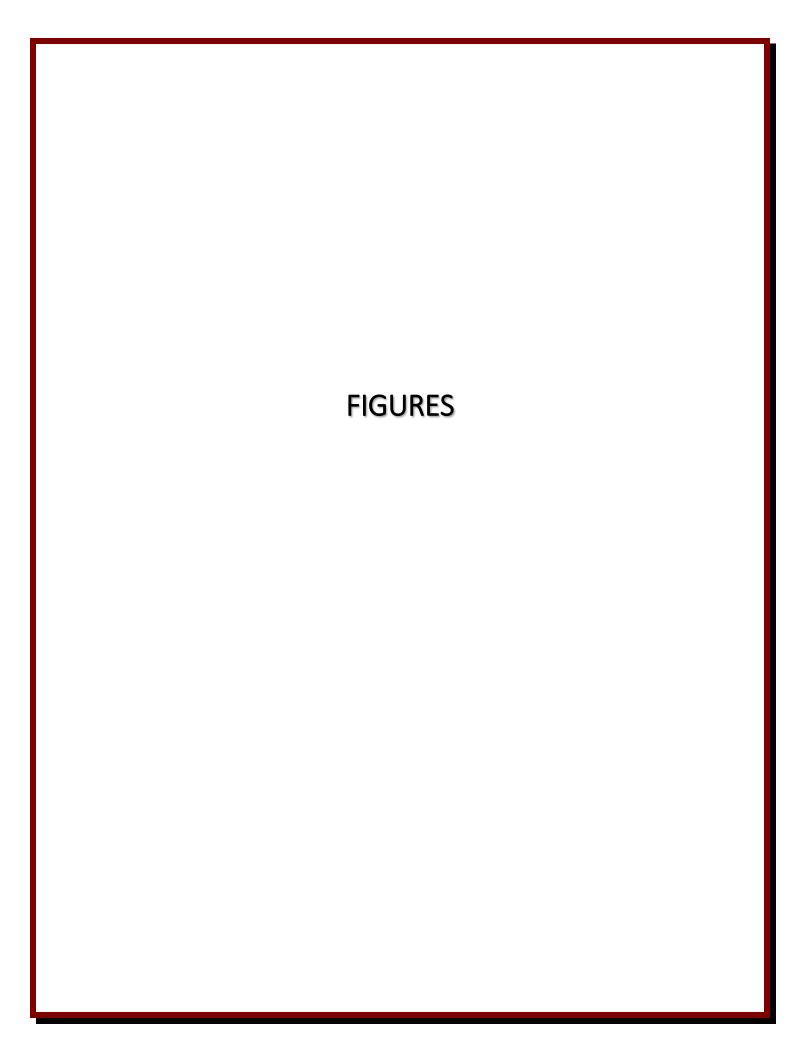


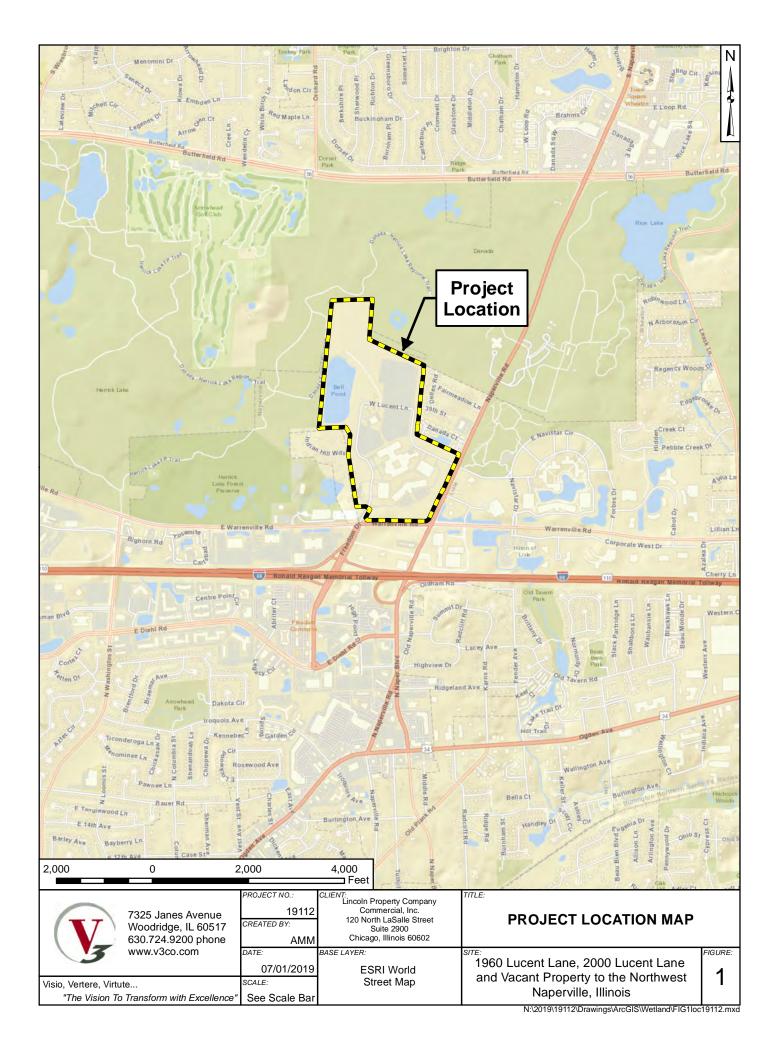


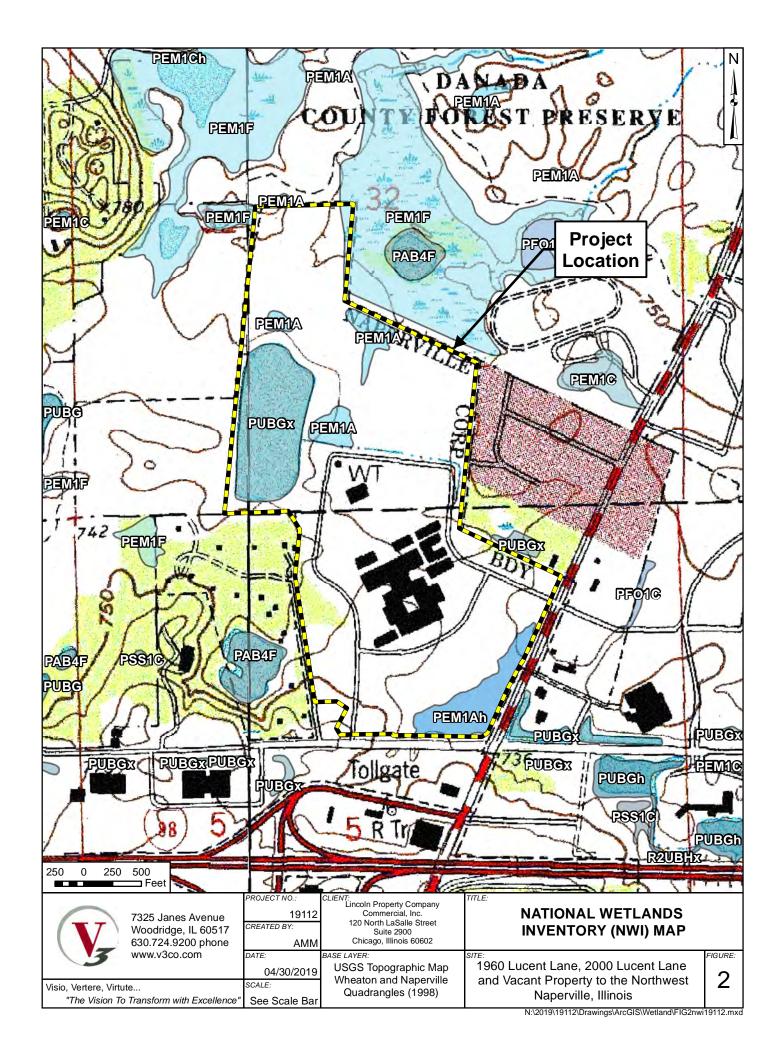


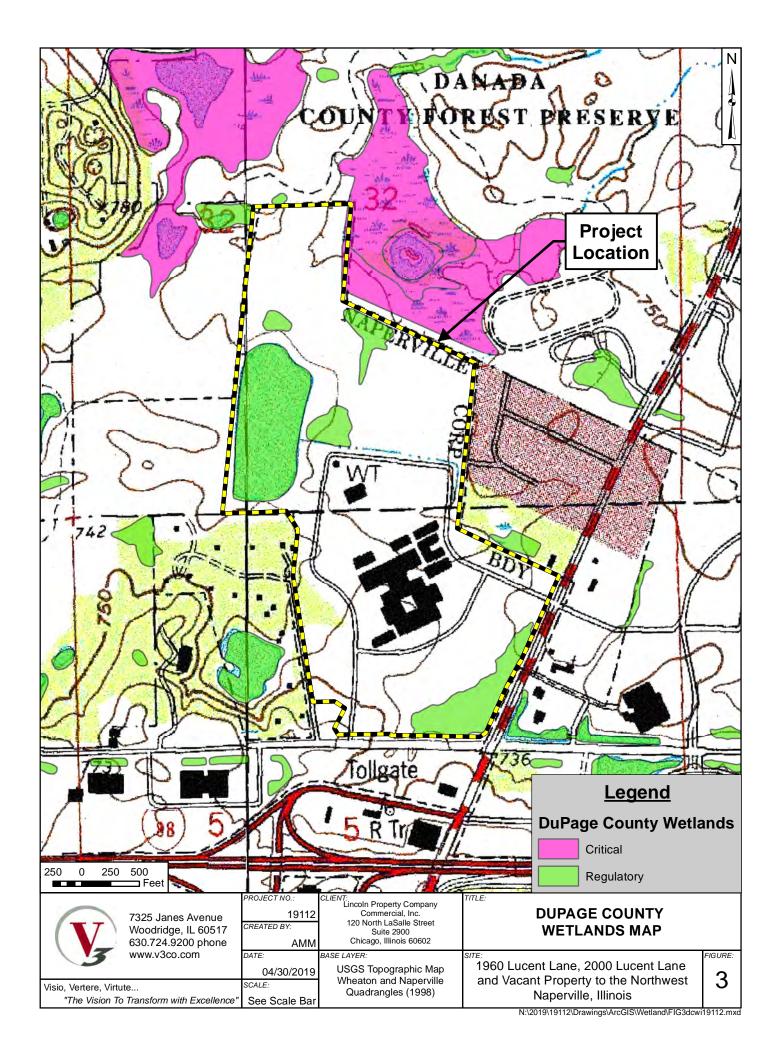


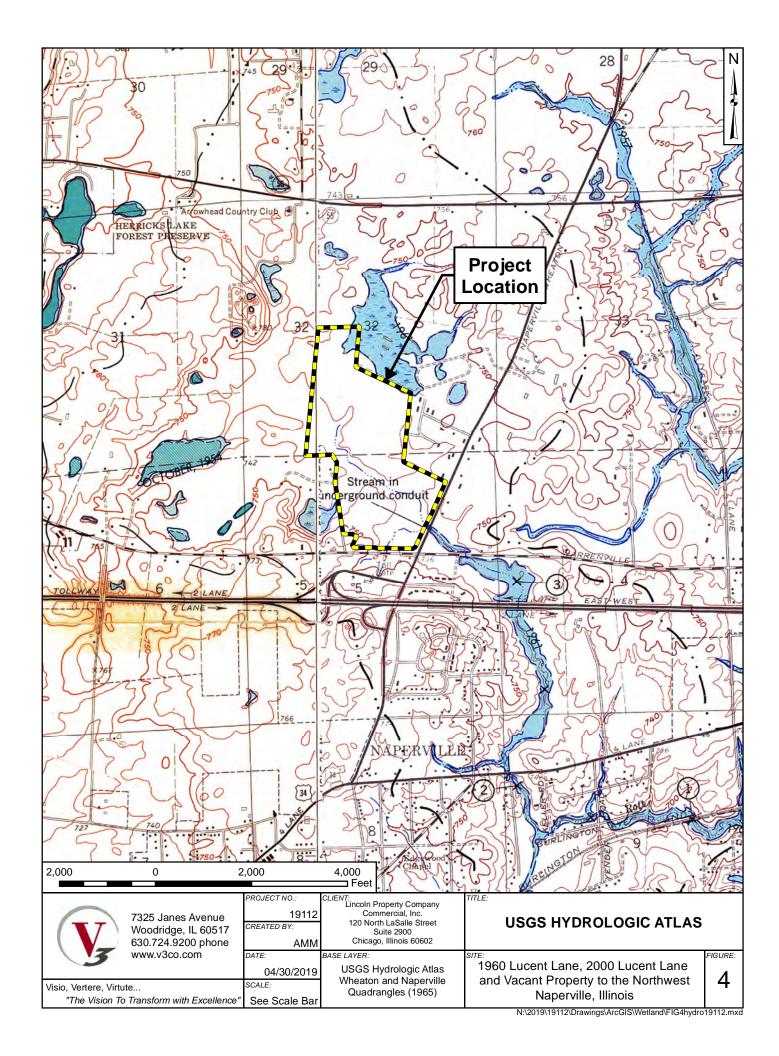


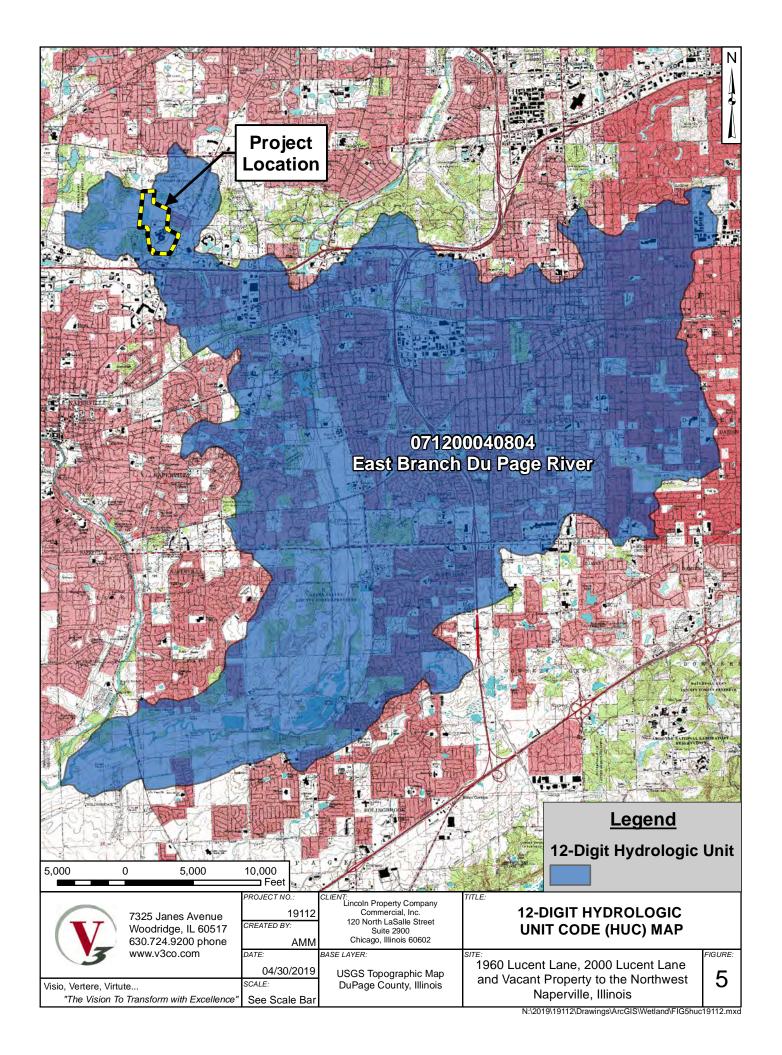


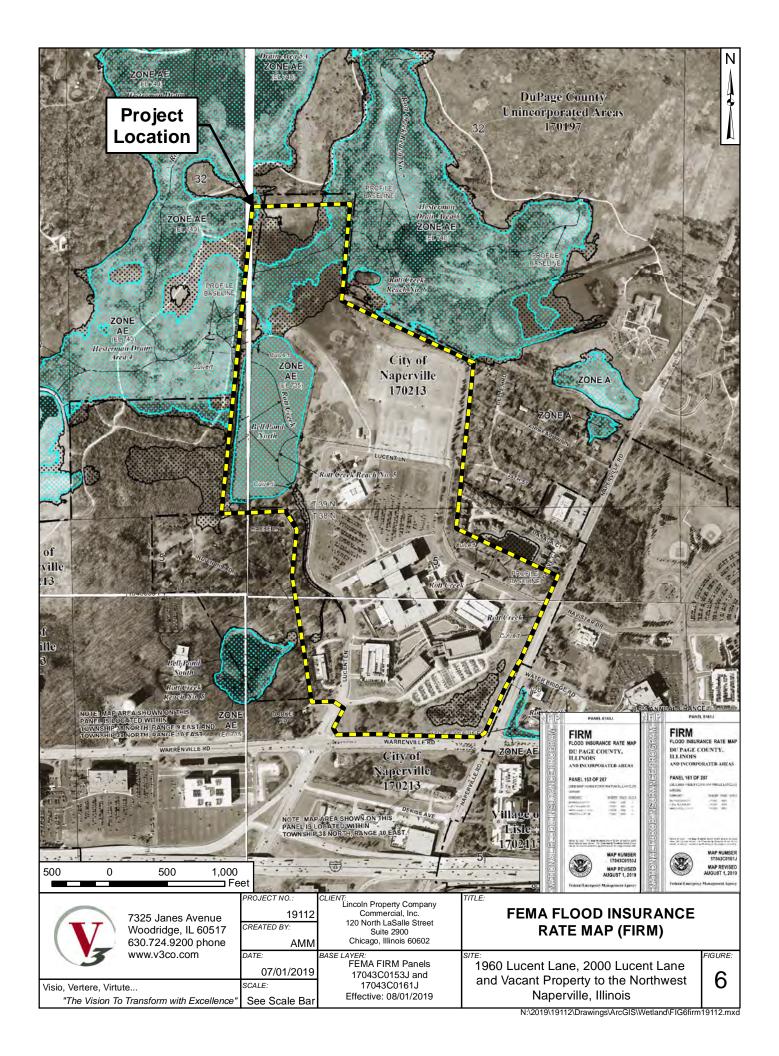


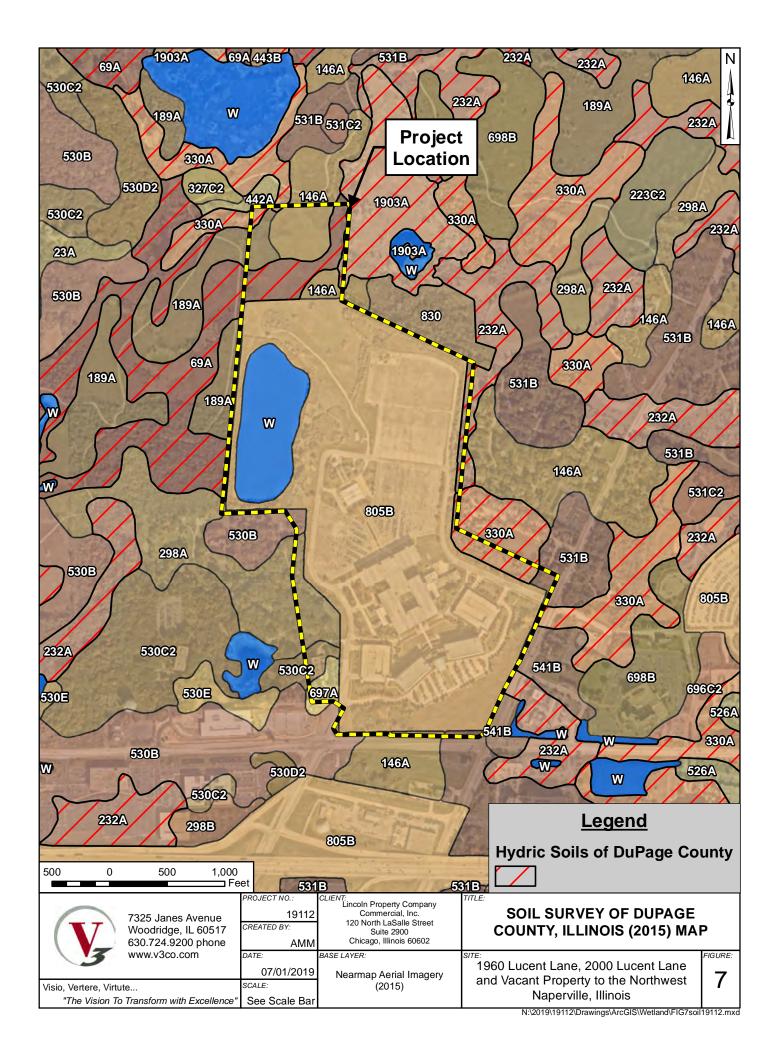














## <u>TAB 5</u>

WATERWAY BUFFER

1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

## **TAB 5: WATERWAY BUFFER**

Not Applicable.

## **TAB 6**

# POST CONSTRUCTION BEST MANAGEMENT

## **TAB 6: POST CONSTRUCTION BMP'S**

Per Article VIII of Du Page County's Countywide Stormwater and Floodplain Ordinance, post-construction best management practices (PCBMPs), a term that also includes volume control best management practices (VCBMPs), are required to treat stormwater runoff for pollutants of concern and to reduce runoff volume for developments with 2,500-SF or more of net new impervious area compared to pre-development conditions. The proposed site conditions result in a net reduction of impervious area and therefore, PCBMPs are not triggered. A Rain Garden is still proposed as part of these improvements that will be used to offset required PCBMP volume when it is triggered during Phase 2 of the development. Volume calculations for the proposed Rain Garden have been included in this section. Refer to Tab 2 of this report for impervious area calculations.



1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

## 1960 WEST LUCENT LANE

Naperville, Illinois

 Engineer:
 JMS
 Date:
 6/2/2025

 Job #:
 H477a
 Plan Date:
 6/6/2025

## PCBMP VOLUME STORAGE CALCULATIONS

## Phase 1 Rain Garden

Surface Storage								
Elevation	Area	Volume	Storage					
(ft)	(sf)	(cf)	(cf)					
735.25	17,440	0.00	0.00					
736.25	20,228	18834	18834					

Volume Type	Porosity	Area (sf)	Depth (ft)	Storage Volume (cf)
Surface Storage	1	20,228	1	18,834
Amended Soil	0.25	20,228	0.67	3,388
Coarse Aggregate	0.36	20,228	1.5	10,923
			RG1 Total	33,145

Surface Storage was calculated using the Average End Area Method.

Volume control has been provided for 318,192 sf of impervious area 33,145 cf=1.25"\*318,192 sf



## **Drawdown Time Calculations**

Project Name: 1960 West Lucent Lane Project Number: H477a

Subject: Drawdown Calculations

Computed By: JMS Date: 6/2/25

Checked By:

### Phase 1 Rain Garden Drawdown Time:

Equation:

$$t = \frac{A}{a * C} * \left(\sqrt{H_i} - \sqrt{H_f}\right) * \sqrt{\frac{2}{g}}$$

Given:

t = Drawdown Time (s) A = Detention Area (ft²)

a = Orifice cross sectional area (ft²) – 0.60" diameter restrictor

C = Orifice discharge coefficient

 $H_i$  = Initial HWL (ft)

H<sub>f</sub> = Elevation at center of orifice (ft) g = Acceleration due to gravity (ft/s²)

$$t = \left(\frac{\frac{22,757ft}{0.002*0.61}*\left(\sqrt{736.25} - \sqrt{733.59}\right)*\sqrt{\frac{2}{32.2}}\right) = 232,311\ seconds = 65\ \textit{hours*}$$

### Phase 1 Rain Garden Drawdown Time (Below Perforated Pipe Invert):

Equation:

$$t = (ElevHWL - ElevBSAND) \times 12in/ft \times ISOIL$$

Given:

t = Drawdown Time (hrs)

 $Elev_{HWL} = Initial HWL (ft)$ 

Elev<sub>BSAND</sub> = Elevation at bottom of sand layer

I<sub>SOIL</sub> = Soil infiltration rate per USDA Soils Report (in/hr)

$$t = (733.41 - 732.58) \times \frac{12in}{ft} \times \frac{1hr}{0.2in} =$$
**50** hours

<sup>\*</sup>Due to maintenance concerns, a 4" perforated pvc underdrain will be installed in lieu of a 0.60" restrictor.

## <u>TAB 7</u>

SOIL EROSION & SEDIMENT CONTROL



## TAB 7: SOIL EROSION & SEDIMENT CONTROL

## Disturbed Area:

The total area of the site that is estimated to be disturbed by excavation, grading, or other activities due to the proposed construction operations is  $\pm 23.94$ -acres. Since the activity exceeds 1-acre in size, an NPDES Permit will be obtained from the IEPA.

### **Temporary:**

Prior to the start of construction activities, all appropriate temporary erosion control measures (i.e. inlet baskets, silt fence, etc.) shall be in place as shown on the erosion control plan. The Erosion Control Plan and Stormwater Pollution Prevention Plan can be found within the Site Improvement Plans. All temporary erosion control measures shall be monitored by the contractor during the entire length of construction and any measures found to be not working will be repaired immediately.

### Permanent:

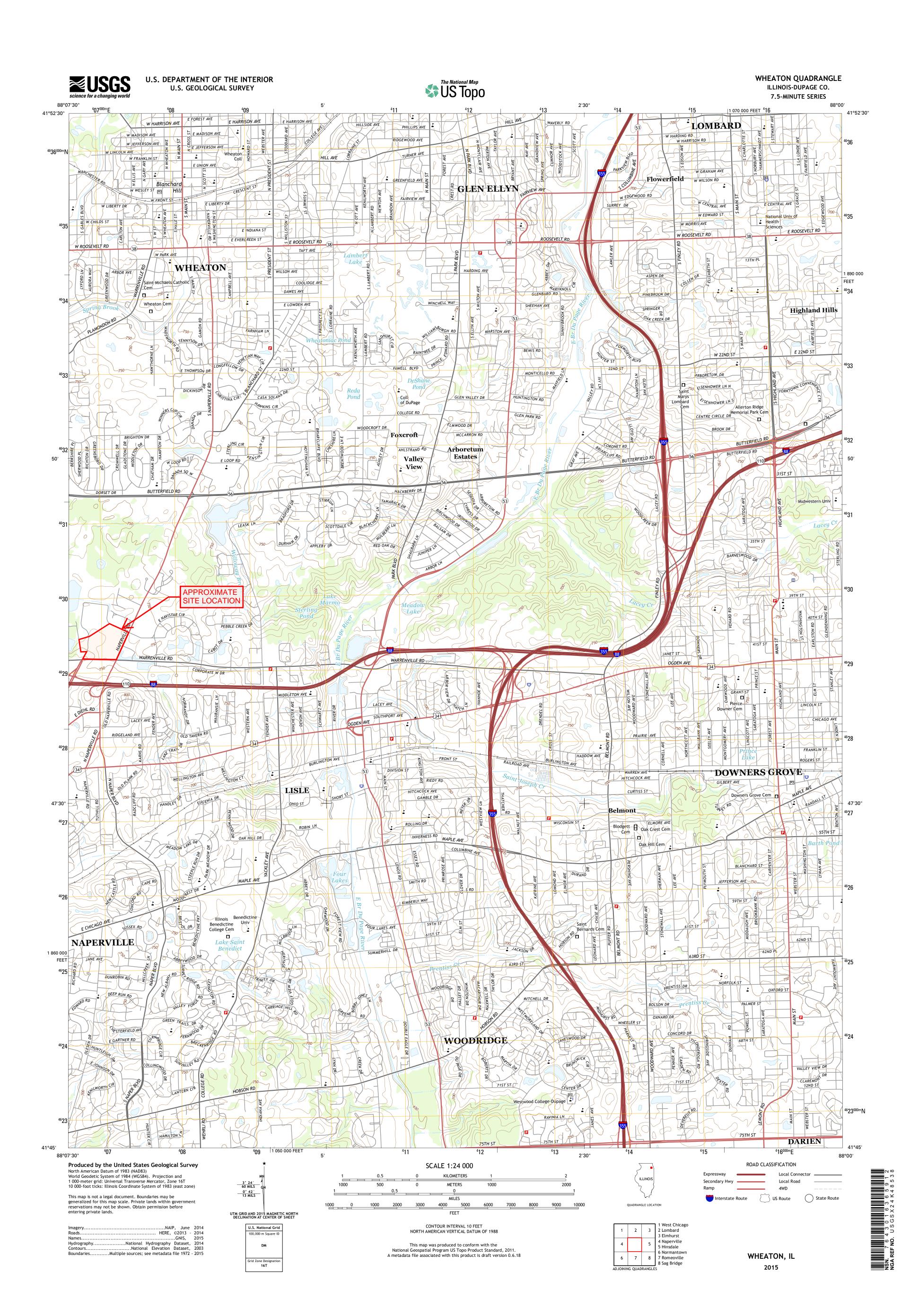
Permanent seeding and erosion control blanket are proposed in proposed green space areas. The owner will be responsible for inspection and maintenance of permanent erosion control measures.

### Security:

Letter of credit, security statement, and the right to enter the site to complete work, if required, are to be handled by contract documents/City approval process.

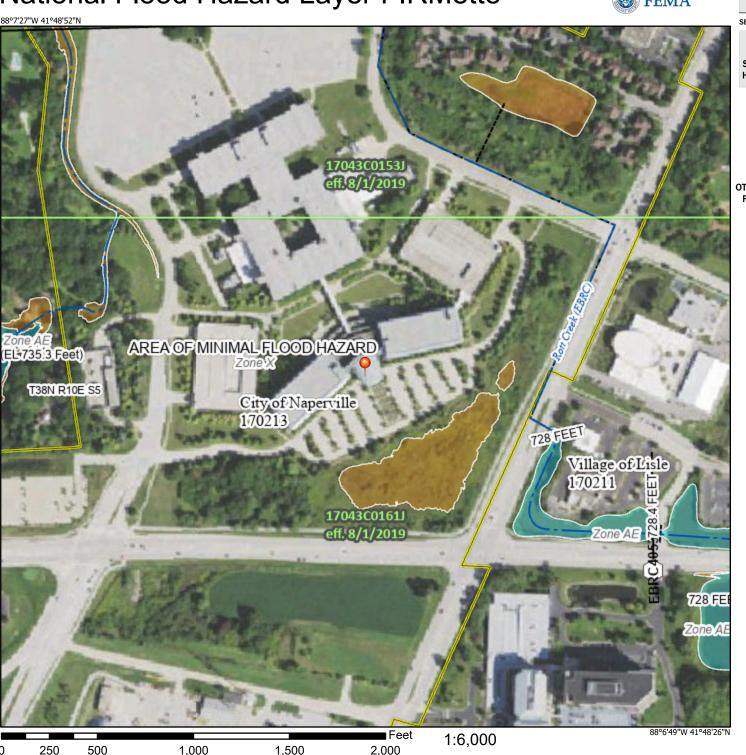
## **TAB 8**

MAPS



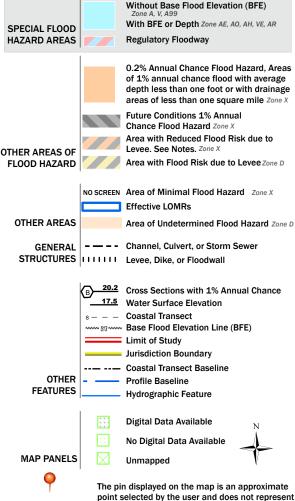
## National Flood Hazard Layer FIRMette





### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/12/2025 at 9:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

### U.S. Fish and Wildlife Service

## **National Wetlands Inventory**

### 1960 West Lucent Lane



February 12, 2025

### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

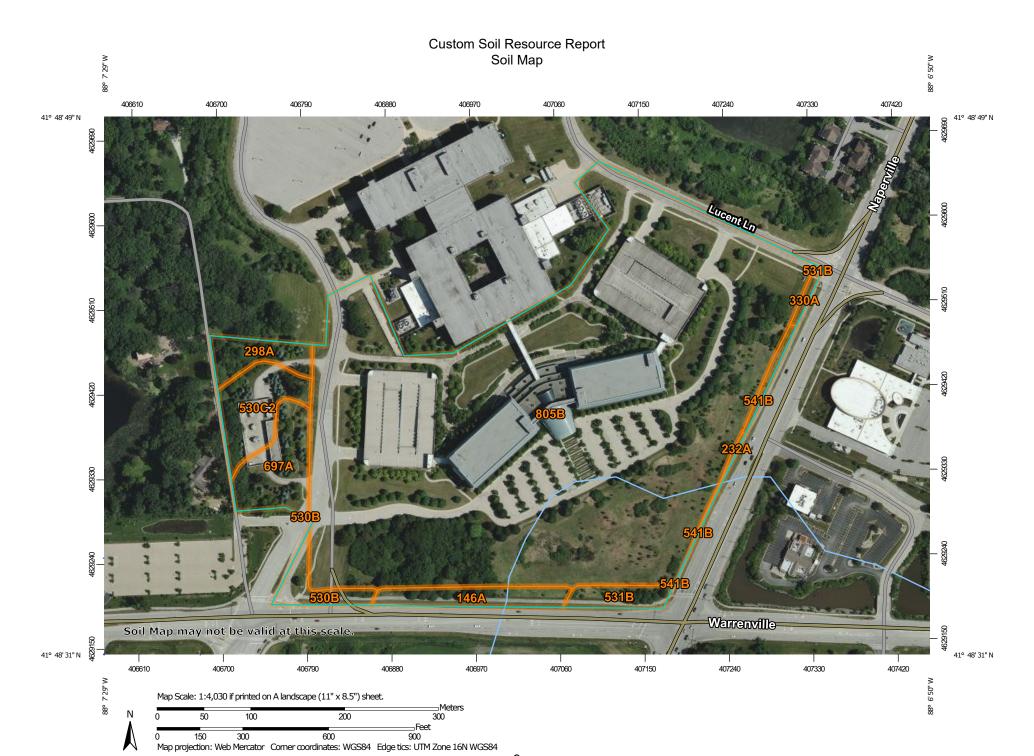
Freshwater Pond

Lake

Riverine

Other

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.



### MAP LEGEND

### Area of Interest (AOI)

Area of Interest (AOI)

### Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

### **Special Point Features**

(o)

Blowout

Borrow Pit

Clay Spot

**Closed Depression** 

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Slide or Slip

Sinkhole

Sodic Spot

Spoil Area

Stony Spot



Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

### Water Features

Streams and Canals

### Transportation

---

Rails

Interstate Highways

**US Routes** 

Major Roads

00

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 20, Aug 21, 2024

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.

### Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
146A	Elliott silt loam, 0 to 2 percent slopes	1.1	2.3%		
232A	Ashkum silty clay loam, 0 to 2 percent slopes	0.1	0.1%		
298A	Beecher silt loam, 0 to 2 percent slopes	0.9	2.0%		
330A	Peotone silty clay loam, 0 to 2 percent slopes	0.1	0.3%		
530B	Ozaukee silt loam, 2 to 4 percent slopes	0.7	1.5%		
530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded	1.6	3.5%		
531B	Markham silt loam, 2 to 4 percent slopes	0.7	1.4%		
541B	Graymont silt loam, 2 to 5 percent slopes	0.2	0.5%		
697A	Wauconda silt loam, 0 to 2 percent slopes	1.7	3.7%		
805B	Orthents, clayey, undulating	38.5	84.6%		
Totals for Area of Interest		45.5	100.0%		

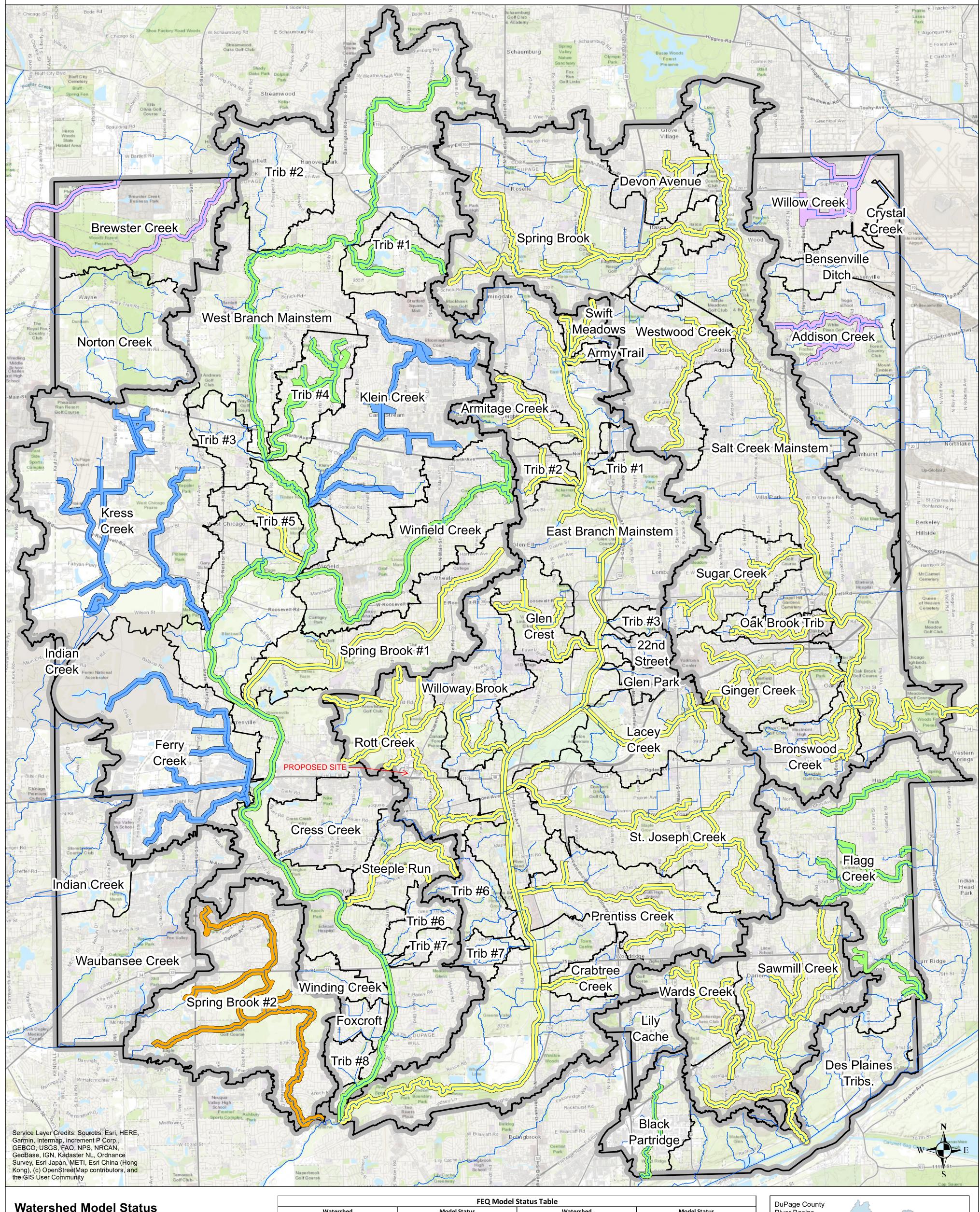
## **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different

# Watershed Model Reference Map



# **Watershed Model Status**

FEMA APPROVED FLOODPLAIN MAP MODEL

FLOODPLAIN MAP MODEL

MODEL IN DEVELOPMENT

WATERSHED PLAN MODEL

WATERSHED PLAN MODEL USING HEC2/HEC-RAS

WATERSHED PLAN MODEL/FLOODPLAIN MAP MODEL

Watershed	Model Status	Watershed	Model Status
DP Flagg	Watershed Plan Model	WB Winfield	Watershed Plan Model
DP Flagg (63rd)	Watershed Plan Model	WB Spring Brook #1	FEMA Approved Floodplain Map Model
DP Flagg (59th)	Watershed Plan Model	EB Rott	FEMA Approved Floodplain Map Model
DP Flagg (Plainfield)	Watershed Plan Model	WB Ferry	Floodplain Map Model Being Updated
Sawmill Creek Main Stem	FEMA Approved Floodplain Map Model	DU Spring Brook #2	Model In Development
DP Flagg (79th)	Watershed Plan Model	DP Black Partridge	Watershed Plan Model
SW Wards	FEMA Approved Floodplain Map Model	SC Spring Brook	FEMA Approved Floodplain Map Model
Salt Creek Main Stem	FEMA Approved Floodplain Map Model	SC Devon Avenue	FEMA Approved Floodplain Map Model
SC Westwood	FEMA Approved Floodplain Map Model	East Branch DuPage Mainstem	FEMA Approved Floodplain Map Model
SC Sugar Creek	FEMA Approved Floodplain Map Model	EB Swift Meadows	FEMA Approved Floodplain Map Model
SC Oak Brook	FEMA Approved Floodplain Map Model	EB Army Trail	FEMA Approved Floodplain Map Model
SC Ginger Creek	FEMA Approved Floodplain Map Model	EB Armitage Creek	FEMA Approved Floodplain Map Model
SC Bronswood	FEMA Approved Floodplain Map Model	EB Trib #2	FEMA Approved Floodplain Map Model
WB Steeple Run	FEMA Approved Floodplain Map Model	EB Glen Crest	FEMA Approved Floodplain Map Model
West Branch DuPage River Mainstem	Watershed Plan Model	EB Willoway	FEMA Approved Floodplain Map Model
WB Trib #1/Keeneyville	Watershed Plan Model	EB Lacey	FEMA Approved Floodplain Map Model
WB Klein	Floodplain Map Model Being Updated	EB Prentiss	FEMA Approved Floodplain Map Model
WB Trib #4	Watershed Plan Model	EB Crabtree	FEMA Approved Floodplain Map Model
WB Kress	Floodplain Map Model Being Updated	WB Trib #5	FEMA Approved Floodplain Map Model

River Basins FOX RIVER **DES PLAINES** CREEK **WEST BRANCH DUPAGE RIVER** EAST BRANCH DUPAGE RIVER **DES PLAINES** FOX RIVER SAWMILL DUPAGE CREEK

Watershed Model Status as of 4-10-2023

Data contained in this map is presented for planning purposes only. The data is based on the best information presently available to the County. The data contained may be subject to alteration and modification based on new or different information and changing conditions. The County makes no guarantee, warranty, or assurances as to the accuracy herein. The widths of the area represented by the FEQ Models are not representative of the areas that may be subject to flooding and does not constitute a flood map. This map may be copied without permission, but any enlargement of this map could cause distortions or omissions of the detail and result in erroneous interpretations.

DuPage County Stormwater Management 421 North County Farm Road Wheaton, IL 60187 (630) 407-6700

# <u>TAB 9</u>

**MAINTENANCE** 



### TAB 9: MAINTENANCE SUMMARY

All on-site stormwater management facilities will be owned and maintained by the property owner.

### **Stormwater Management Maintenance Measures**

### Storm Sewer

Routine inspections and maintenance of the storm sewer shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:

- 1. Storm sewer shall be inspected and kept clean of debris at all inlets, restrictors, sumps and existing restrictors. If any debris is found near the restrictors, it shall be removed immediately. Storm structures shall be inspected periodically and/or after any rainfall event of 0.5" or more.
- Reset covers/lids as-needed.
- 3. Any damaged storm structure or sewer shall be repaired or replaced as soon as possible.

### Rain Garden

Routine inspections and maintenance of the rain garden shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:

- 1. Visual inspections to verify the design capacity is being maintained.
- 2. Removal of accumulated sediment that would negatively affect the BMP.
- 3. Planted and seeded areas shall be maintained and replaced as necessary to retain design intentions.
- 4. Check and repair any eroded areas within the facility.

### Swales / Curb Cuts / Overland Flow Routes

Routine inspections and maintenance of the swales, curb cuts and overland flow routes shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:

- 1. Visual inspections to verify the design capacity is being maintained.
- 2. Removal of accumulated sediment that would negatively affect the drainage way.
- 3. Planted and seeded areas shall be maintained and replaced as necessary to retain design intentions.
- 4. Regular mowing to control vegetation; It is recommended that any native vegetation remain uncut (within Rain Garden).
- 5. Check and repair any eroded areas within the facility.

### Vegetated Areas

Routine inspections and maintenance of the vegetated areas shall be performed by the Owner on a yearly or as-needed basis. Specific items of concern include:

- 1. Planted and seeded areas shall be maintained and replaced as necessary to prevent erosion.
- 2. Regular mowing to control vegetation; It is recommended that any native vegetation remain uncut (within Rain Garden).

# **TAB 10**

SECURITY COST ESTIMATE

Client	Karis Critical		
Project	1960 West Lucent Lane	Date	6/12/2025
Project #	H477	Ву	RJC/SMW

### **Engineer's Statement of Probable Construction Cost - Surety Items**

Item No.	Description	Quantity	Unit	Price	Amount
	Earthwork & Erosion Control				
1	Earth Excavation & Balance (structural material cut & fill)	125,000	CY	\$4.00	\$500,000.00
2	Fine Grade Subgrade	25,612	SY	\$1.50	\$38,418.33
3	Topsoil Strip, Stockpile & Respread	8,994	CY	\$4.00	\$35,976.00
4	Silt Fence	4,212	LF	\$2.50	\$10,530.00
5	Inlet Protection	39	EA	\$250.00	\$9,750.00
6	Lined Apron	5	EA	\$800.00	\$4,000.00
7	Ditch Checks	15	EA	\$160.00	\$2,400.00
8	Concrete Wash	2	EA	\$500.00	\$1,000.00
9	Stabilized Construction Entrance	2	EA	\$2,000.00	\$4,000.00
10	Turf Reinforcement Mat (SC 250)	273	SY	\$3.00	\$819.00
11	Erosion Control Blanket	12,612	SY	\$1.60	\$20,179.20
		,		7-100	+,
	+			Subtotal	\$627,073
	Paving				
12	B6.12 Curb & Gutter	520	LF	\$30.00	\$15,600.00
13	Depressed B6.12 Curb & Gutter	255	LF	\$25.00	\$6,375.00
14	Asphalt Pavement w/ Stone Base	304	SY	\$35.00	\$10,647.78
15	5" PCC Sidewalk Pavement w/ Stone Base	803	SY	\$90.00	\$72,250.00
16	Detectable Warning	152	SF	\$30.00	\$4,560.00
					•
				Subtotal	\$109,433
	Storm Sewer				
17	24" Inlet	5	EA	\$2,000.00	\$10,000.00
18	48" Diameter Storm Structure	21	EA	\$3,800.00	\$79,800.00
19	60" Diameter Storm Structure	10	EA	\$5,100.00	\$51,000.00
20	72" Diameter Storm Structure	8	EA	\$6,500.00	\$52,000.00
21	84" Diameter Storm Structure	7	EA	\$7,150.00	\$50,050.00
22	96" Diameter Storm Structure	3	EA	\$7,800.00	\$23,400.00
23	RCP Storm Sewer 12"	1,274	LF	\$40.00	\$50,960.00
24	RCP Storm Sewer 15"	51	LF	\$45.00	\$2,295.00
25	RCP Storm Sewer 18"	664	LF	\$50.00	\$33,200.00
26	RCP Storm Sewer 24"	779	LF	\$60.00	\$46,740.00
27	RCP Storm Sewer 30"	983	LF	\$75.00	\$73,725.00
28	RCP Storm Sewer 36"	124	LF	\$80.00	\$9,920.00
29	RCP Storm Sewer 42"	352	LF	\$85.00	\$29,920.00
30	RCP Storm Sewer 48"	107	LF	\$90.00	\$9,630.00
31	RCP Storm Sewer 54"	375	LF	\$100.00	\$37,500.00
32	FES 12" W/Grate	3	EA	\$1,200.00	\$3,600.00
33	FES 48" W/Grate	1	EA	\$4,200.00	\$4,200.00
34	FES 54" W/Grate	1	EA	\$4,700.00	\$4,700.00
35	Trench Backfill	2,036	LF	\$20.00	\$40,720.00
36	4" Perforated Underdrain	281	LF	\$20.00	\$5,620.00
37	Clean Out	1	EA	\$250.00	\$250.00
38	Rain Garden	1	LS	\$15,000.00	\$15,000.00
-				Subtotal	\$634,230



1333 Butterfield Road, Suite 300 Downers Grove, IL 60515 P 630-652-4600 F 630-652-4601

Client	Karis Critical		
Project	1960 West Lucent Lane	Date	6/12/2025
Project #	H477	Ву	RJC/SMW

### **Engineer's Statement of Probable Construction Cost - Surety Items**

Item No.	Description	Quantity	Unit	Price	Amount
	Watermain				
39	12" Ductile Iron Watermain Pipe	2,255	LF	\$90.00	\$202,950.00
40	6" Ductile Iron Watermain Pipe	139	LF	\$60.00	\$8,340.00
41	Fire Hydrant, Valve & Tee	8	EA	\$8,500.00	\$68,000.00
42	Valve Vault	8	EA	\$4,000.00	\$32,000.00
43	Adjust Existing Watermain Structure Frame	4	EA	\$1,000.00	\$4,000.00
44	Connect to Existing Watermain	3	EA	\$2,500.00	\$7,500.00
45	Trench Backfill	1,330	LF	\$25.00	\$33,250.00
46	8" Ductile Iron Private Water Service (Estimated Size)	214	LF	\$70.00	\$14,980.00
				Subtotal	\$371,020
47	Land Development Plantings	1	LS	\$342,545.00	\$342,545.00
48	Naturalized Area Plantings	1	LS	\$25,050.00	\$25,050.00
				Subtotal	\$367,595
Estimated Total for Improvements					\$2,109,350

### Notes:

- 1. This statement was prepared using standard cost estimating practices. It is understood and agreed that this is an estimate only, and that the Engineer shall not be held liable to the Owner or to a third party for any failure to accurately estimate the cost of the project, or any part thereof.
- 2. This statement is based on Final Site Improvement Plans for 1960 West Lucent Lane, prepared by Jacob & Hefner Associates, Inc., dated June 12, 2025. This estimate only includes Phase 1 quantities requiring surety.
- 3. Earthwork quantities are based on earthwork calculations prepared by Jacob and Hefner Associates, Inc. dated April 7th, 2025.
- 4. Landscape quantities are based on the Cost Opinion for Landscape Plans Final Phase 1, prepared by Gary R. Weber Associates, Inc., dated June 12, 2025.

# **TAB 11**

**VARIANCES** 



### **TAB 11: VARIANCE SUMMARY**

No Stormwater related variances are being pursued as part of these proposed site improvements.