INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb Governor

Brian C. Rockensuess

Commissioner

WATER OF THE STATE DETERMINATION

| VIA ELECTRONIC MAIL: | |
|----------------------|--|
| PROJECT NO.: | 2023-99-44-EJW-Q |
| PROJECT NAME: | Topeka Subdivision |
| AUTHORITY: | 327 IAC 17-1-3(13), 327 IAC 17-1-3(17) |
| DATE OF ISSUANCE: | April 21, 2023 |
| DATE OF EXPIRATION: | April 21, 2028 |
| | |
| | Bi Wolff |
| APPROVED: | |
| | Brian Wolff, Branch Chief Surface Water and Operations Office of Water Quality |
| RESPONSIBLE PARTIES: | Town of Topeka Attn: Stewart Bender 124 E. Lake Street Topeka, IN 46571 |
| DELINEATOR(S): | Ashlee Nichter Earth Source, Inc. 14921 Hand Road Fort Wayne, IN 46818 |
| AGENT(S): | Earth Source, Inc. |

Attn: Ashlee Nichter

IDEM No. 2023-99-44-EJW-Q, Topeka Subdivision Page 2

14921 Hand Road Fort Wayne, IN 46818

DELINEATION DATE: October 20, 2022

DATE REPORT RECEIVED: February 6, 2023

TRACT LOCATION: LaGrange County

The project tract is approximately 50 acres and is located at North Main Street in Topeka, Indiana.

Latitude: 41.545287 Longitude: -85.534641

USACE ID: LRE-2022-00838-144-A22

CONCLUSIONS:

The Indiana Department of Environmental Management (IDEM) has reached the following conclusions about whether any Waters, as defined in 327 IAC 17-1-3(13), exist on the property. In accordance with 327 IAC 17-1-3(17) the department makes all isolated wetland determinations consistent with the Wetland Delineation Manual, Technical Report Y-87-1 of the United States Army Corps of Engineers.

| SITE ID | ACRES | CLASS | FORESTED | EXEMPT / NO PERMIT REQUIRED | INDIANA CODE | REGULATED UNDER IC 13-18-22 |
|------------|-------|-------|----------|-----------------------------------|---------------------------|-----------------------------------|
| Section I | 0.67 | 1 | No | Exempt | IC 13-11-2- 74.5(a)(5) | No |
| Section II | 0.58 | N/A | No | No Permit Required | IC 13-18-22- 1(d) | No |

COMMENTS:

Section I is a non-forested Class 1 isolated wetland. Per IC 13-11-2-74.5(a)(5), Section I wetland is exempt from permitting.

Section II is an isolated cropland wetland. Per IC 13-18-22-1(d), isolated cropland wetlands do not require a permit for wetland impacts.

DISCLAIMER:

This determination is based upon the information provided in the above referenced delineation report and/or the above referenced field evaluation. This determination does not relieve the recipient from the responsibility of obtaining any permits or authorizations that may be required for this project or related activities from IDEM or any other agency or person. The project site and the associated construction may be subject to the Construction Stormwater General Permit (CSGP). The CSGP specifically addresses stormwater run-off and the pollutants associated with all land-disturbing activities of one acre or more. If applicable, permit coverage must be obtained prior to the initiation of land-disturbing activities. Please contact the IDEM Stormwater Program at Stormwat@idem.IN.gov or 317-233-1864 concerning obtaining permit coverage under the CSGP. You may also wish to contact the Indiana Department of Natural Resources at 317-232-4160, or toll free at 877-928-3755, concerning the possible requirement of a Natural Freshwater Lake or Construction in a Floodway Permit.

This determination does not:

- (1) authorize impacts or activities;
- (2) authorize any injury to persons or private property or invasion of other private rights, or any infringement of federal, state or local laws or regulations;
- (3) convey any property rights of any sort, or any exclusive privileges;
- (4) preempt any duty to obtain federal, state or local permits or authorizations required by law for the execution of the project or related activities; or
- (5) authorize changes in the plan design detailed in the application.

APPEALS PROCEDURES:

This decision may be appealed in accordance with IC 4-21.5, the Administrative Orders and Procedures Act. The steps that must be followed to qualify for review are:

- 1. You must petition for review in writing that states facts demonstrating that you are either the person to whom this decision is directed, a person who is aggrieved or adversely affected by the decision, or a person entitled to review under any law.
- 2. You must file the petition for review with the Office of Environmental Adjudication (OEA) at the following address:

Office of Environmental Adjudication

100 North Senate Avenue IGCN Room N103 Indianapolis, IN 46204

3. You must file the petition within eighteen (18) days of the mailing date of this decision. If the eighteenth day falls on a Saturday, Sunday, legal holiday, or other day that the OEA offices are closed during regular business hours, you may file the petition the next day that the OEA offices are open during regular business hours. The petition is deemed filed on the earliest of the following dates: the date it is personally delivered to OEA; the date that the envelope containing the petition is postmarked if it is mailed by United States mail; or, the date it is shown to have been deposited with a private carrier on the private carrier's receipt, if sent by private carrier.

Identifying the permit, decision, or other order for which you seek review by number, name of the responsible, location, or date of this notice will expedite review of the petition.

Note that if a petition for review is granted pursuant to IC 4-21.5-3-7, the petitioner will, and any other person may, obtain notice of any prehearing conferences, preliminary hearings, hearings, stays, and any orders disposing of the proceedings by requesting copies of such notices from OEA.

If you have procedural or scheduling questions regarding your Petition for Administrative Review, additional information on the review process is available at the website of the Office of Environmental Adjudication at http://www.in.gov/oea.

If you have any questions about this determination, contact Evan White by phone at 317-671-6698 or by e-mail at EVWhite@idem.in.gov.



Mr. Evan White Indiana Department of Environmental Management 100 N. Senate Ave. Mail Code 65-42 Indianapolis, IN 46204-2251

February 6, 2023

re: ACOE No.: LRE-2022-00838-144-A22 Topeka Subdivision LaGrange County, Indiana

Dear Mr. White:

We are requesting a Waters of the State Determination for the Topeka Subdivision project site located in Topeka in Section 30 of Clearspring Township (Township 36 North, Range 8 East) of LaGrange County, Indiana. In accordance with IC-13-18, we are declaring wetland Section I and II as exempt isolated wetlands under clause IC-13-18-22-1(d)(1):

Section I is a 0.67-acre emergent wetland surrounding an excavated pond, which are both located within an active agricultural field. The pond was excavated prior to 1998 and was expanded between 2008 and 2010. The wetland was farmed in previous years with limited success. This portion of the site is currently in agricultural production and has been used for agricultural purposes for greater than 5 years prior to the wetland delineation. The wetland meets the definition of an exempt wetland under IC-13-18-22-1(d)(1) due to the development of cropland.

Section II is a 0.58-acre emergent wetland located within a depression in an agricultural field. This portion of the site was not in agricultural production in 2022, but has been in agricultural production and has been used for agricultural purposes for greater than 5 years prior to the wetland delineation. The wetland meets the definition of an exempt wetland under IC-13-18-22-1(d)(1) due to the development of cropland.

If we can be of any assistance or answer any questions regarding the project, please do not hesitate to contact us at your earliest convenience.

Sincerely,

Earth Source Inc.,

Environmental Scientist

Enclosures

14921 Hand Road, Fort Wayne, IN 46818

Phone (260) 489-8511

Fax (260) 489-8607

landscape architecture • land planning • wetland delineation, permitting & design native seed nursery • ecological restoration • management



State Regulated Wetland Class Determination Worksheet

State Form 57155 (10-21)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INSTRUCTIONS

Form Completed By:

- Complete this form when conducting wetland delineations One form should be completed for each wetland on-site.
- (2) If a wetland meets the definition for multiple wetland classes, the wetland will be classified according to the higher class.
- (3) Submit all completed forms with your wetland delineation and Approved Jurisdictional Determination or official U.S. Army Corps of Engineers correspondence when applying for Waters of the State Determinations or State Regulated Wetland Permits. Additional information regarding how to request Indiana Natural Heritage Data, including fees, required information, and timeframes, is available at https://www.in.gov/dnr/nature-preserves/heritage-data-center/about-inhdc/.

IDEM, Office of Water Quality Wetlands Program 100 North Senate Avenue, Room 1255 Indianapolis, IN 46204

Questions regarding this form may be directed to:

Phone: (317) 233-8488 or

(800) 451-6027, ext. 38488 (within Indiana)

Program Email: WetlandsProgram@idem.IN.gov

Program Staff: https://www.in.gov/idem/wetlands/

Program Website:

https://www.in.gov/idem/wetlands/

| First Name: | Last Name: | | Agent Affiliation (Company Name): | | |
|--|------------------------------------|-------------------------|-----------------------------------|-----------------------|--|
| Ashlee | Nichter | Earth Source, Inc. | | | |
| Phone Number: | | Email address: | | | |
| 260-489-8511 | | anichter@e | arthsourceinc.net | | |
| Project Name: | | Wetland ID (per | the wetland delineation): | Wetland Size (Acres): | |
| Topeka Subdivision | | Section I | | 0.67 | |
| STATE REGULATED WETLAND CL | ASSIFICATION: Class I | Class II | Class III | | |
| Class III Assessment | | | | | |
| (1) Is the wetland a listed rare or ecol | ogically important type under IC | 13-11-2-25.8(3 |)(B)? | Yes ■ No | |
| If yes, please indicate: | | | | | |
| ☐ Acid Bog ☐ Acid Seep ☐ Cii | rcumneutral Bog 🔲 Circumneut | ral Seep 🔲 C | ypress Swamp 🔲 Dune and Swa | ale | |
| ☐ Fen ☐ Forested Fen ☐ For | ested Swamp | ☐ Muck Flat | ☐ Panne ☐ Sand Flat ☐ Sed | ge Meadow | |
| ☐ Shrub Swamp ☐ Sinkhole Po | ond □ Sinkhole Swamp □ We | t Floodplain Fo | rest □ Wet Prairie □ Wet Sa | nd Prairie | |
| • | · | · | | | |
| If yes, the Wetland is Class III. (If no, proceed to Question (2). | Check Class III at the top of the | e form and the | form is now complete. | | |
| * * | ess the presence of, or habitat fo | r rare. threaten | ed, or endangered species within | a Yes ■ No | |
| (2) Does the wetland generally possess the presence of, or habitat for rare, threatened, or endangered species within a ½ mile radius according to the IDNR Natural Heritage Database AND the species uses the habitat for any stage of its life cycle? | | | | | |
| If yes, the Wetland is Class III. (If no, proceed to Question (3). | Check Class III at the top of the | e form and the | form is now complete. | | |
| (3) Is the wetland in an undisturbed of | or minimally disturbed setting? | | | ☐ Yes 🔳 No | |
| If yes, answer Question (4) and Question (5). If no, please provide a justification as an attachment to this form and proceed to the Wetland Habitat Functional Assessment. | | | _ | | |
| (4) Does the wetland support more the | nan minimal wildlife or aquatic ha | abitat? Please o | complete the Habitat Functiona | I Yes No | |
| Assessment below. If yes, the Wetland is Class III. | | | | | |
| 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | I Yes No | | |
| Assessment below. If yes, the Wetland is Class III. | | | | | |
| Diagonius de de consediti es el conse | | | | III A | |
| Please include any additional comr separate attachment appended to t | his form | • • | | | |
| ooparato attaorimont appondoa to t | | Cootion Lie or | a amargant watland lagated w | ithin on octive | |

Any of the following scenarios indicate the Wetland is Class III:

- Checking 'Yes' for Question 1
- Checking 'Yes' for Question 2
- Checking 'Yes' for Question 3 and Question 4
- Checking 'Yes' for Question 3 and Question 5

Section I is an emergent wetland located within an active agricultural field. The wetland surrounds an excavated pond. The pond was excavated prior to 1998 (earliest available imagery) and was expanded between 2008 and 2010. The area around the pond was farmed with limited success in most years. The wetland was dominated by volunteer native species and invasive species, Reed Canary Grass.

If the Wetland is Class III, check Class III at the top of the form, complete the appropriate functional assessment on Page 2 (if applicable), and the form is now complete.

| Wetl | and H | labitat Functional Assessment: | | | |
|------------------|---|--|-------------------|--|--|
| (6) D | 6) Does the wetland support moderate habitat? (see options below) | | | | |
| (| Check | ing yes also meets the requirements of Question 4. | | | |
| (| One " | Yes" response below is needed to show moderate habitat function. | | | |
| • | • In | dicators of moderate habitat function: Species of Special Concern within a ½ mile radius of the wetland according to the IDNR Natural Heritage Database AND the listed species or a life cycle stage uses wetlands for habitat? | ☐ Yes ■ No | | |
| | • | Does the wetland provide habitat corridors between necessary habitat for mobile, state-listed species? | ☐ Yes ■ No | | |
| | • | Are there Important Bird Areas (IBA) mapped for the wetland or within a ½ mile radius? https://databasin.org/datasets/fdb91971a11d46d39661f0a56c3585ca/ | ☐ Yes ■ No | | |
| | • | Is the wetland dominated by native species? Reed Canary Grass was dominate in the majority of the wetland. | ☐ Yes ■ No | | |
| | • | Does the wetland support multiple layers of species habitat (wading birds, dabblers, reptiles, amphibians, etc.)? | ☐ Yes ■ No | | |
| | • | Do Rapid Assessment Methods indicate that the wetland supports moderate habitat? Indicate which method used: | ☐ Yes ■ No | | |
| | | Are other moderate habitat indicators present (Explain in Remarks)? | ☐ Yes ■ No | | |
| | | clude any additional comments, justifications, and/or supporting documentation related to the Wetland Hent as a separate attachment appended to this form. | abitat Functional | | |
| <u>Wetl</u> | and H | lydrology Functional Assessment: | | | |
| | | ne wetland support moderate hydrological function? (see options below) ng yes also meets the requirements of Question 5. | ☐ Yes ■ No | | |
| | | wetland meets two or more primary hydrology indicators on the wetland determination data form. Wetland is located within a floodway or floodplain. Wetland position in the watershed is 1st_3rd order or 4th – 5th order if the substrate is sand or silt. Wetland possesses strong hydric soil indicators (gleyed matrix or >20% redox/mottles present). Wetland is located within a groundwater Wellhead Protection Area. https://www.in.gov/idem/cleanwater/information-about/groundwater-monitoring-and-source-water-protection/weprogram/source-water-proximity-determination-tool/ condary Indicators: Wetland is 0.75 acre or larger in size, indicating at least moderate water storage capacity. Dominant vegetation in wetland is highly adapted to prolonged inundation (FACW, OBL dominance). Wetland substrate is sand or silt, indicating higher hydraulic conductivity. Wetland is located within a highly developed landscape (>75% impervious surface in ½ mile radius). Parcel with wetland is bordered by development, roads, or impervious surfaces. Wetland is located within a drinking water Source Water Susceptibility Area. Wetland is located within a drinking water Source Water Assessment Area Other (Explain in Remarks) | | | |
| F A C C | unction of only Control only Control on the Victor of the Victor on the | include any additional comments, justifications and/or supporting documentation related to the Wetland conal Assessment as a separate attachment appended to this form. the following scenarios indicate the Wetland is Class II: hecking 'Yes' to Question (6) hecking 'Yes' to Question (7) Wetland is Class II, check Class II at the top of the form, and the form is now complete. Wetland is not Class III or Class II, check Class I at the top of the form and the form is now complete. | d Hydrology | | |
| | | g Guidance Documents: | | | |
| | | tate Regulated Wetlands: https://www.in.gov/idem/wetlands/information-about/isolated-wetlands-program/ | | | |



State Regulated Wetland Class Determination Worksheet

State Form 57155 (10-21)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INSTRUCTIONS

- Complete this form when conducting wetland delineations One form should be completed for each wetland on-site.
- (2) If a wetland meets the definition for multiple wetland classes, the wetland will be classified according to the higher class.
- (3) Submit all completed forms with your wetland delineation and Approved Jurisdictional Determination or official U.S. Army Corps of Engineers correspondence when applying for Waters of the State Determinations or State Regulated Wetland Permits. Additional information regarding how to request Indiana Natural Heritage Data, including fees, required information, and timeframes, is available at https://www.in.gov/dnr/nature-preserves/heritage-data-center/about-inhdc/.

IDEM, Office of Water Quality Wetlands Program 100 North Senate Avenue, Room 1255 Indianapolis, IN 46204

Questions regarding this form may be directed to:

Phone: (317) 233-8488 or

(800) 451-6027, ext. 38488 (within Indiana)

Program Email: WetlandsProgram@idem.IN.gov

Program Staff: https://www.in.gov/idem/wetlands/

Program Website:

https://www.in.gov/idem/wetlands/

| Form Completed By: | | | | |
|--|-----------------------------------|-----------------------------------|---|-----------------------|
| First Name: | Last Name: | Agent Affiliation (Company Name): | | |
| Ashlee | Nichter | Earth Source, Inc. | | |
| Phone Number: | | Email address: | <u>. </u> | |
| 260-489-8511 | | anichter@e | arthsourceinc.net | |
| Project Name: | | Wetland ID (per | r the wetland delineation): | Wetland Size (Acres): |
| Topeka Subdivision | | Section II | | 0.58 |
| STATE REGULATED WETLAND CLA | ASSIFICATION: Class I | Class II | Class III | |
| Class III Assessment | | | | |
| (1) Is the wetland a listed rare or ecolo | gically important type under IC | 13-11-2-25.8(3 | 3)(B)? | Yes ■ No |
| If yes, please indicate: | | | | |
| ☐ Acid Bog ☐ Acid Seep ☐ Circ | cumneutral Bog 🔲 Circumneut | ral Seep 🔲 C | ypress Swamp 🔲 Dune and Sw | /ale |
| ☐ Fen ☐ Forested Fen ☐ Fore | ested Swamp 🔲 Marl Beach | ☐ Muck Flat | ☐ Panne ☐ Sand Flat ☐ Se | dge Meadow |
| ☐ Shrub Swamp ☐ Sinkhole Por | nd 🗌 Sinkhole Swamp 🔲 We | t Floodplain Fo | orest 🗌 Wet Prairie 🔲 Wet Sa | and Prairie |
| If yes, the Wetland is Class III. C If no, proceed to Question (2). | heck Class III at the top of the | e form and the | e form is now complete. | |
| (2) Does the wetland generally posses ½ mile radius according to the IDN its life cycle? | | | | |
| If yes, the Wetland is Class III. C If no, proceed to Question (3). | heck Class III at the top of the | form and the | e form is now complete. | |
| (3) Is the wetland in an undisturbed or | minimally disturbed setting? | | | 🗌 Yes 🔳 No |
| If yes, answer Question (4) and (form and proceed to the Wetland | | | ation as an attachment to this | |
| (4) Does the wetland support more that | - | bitat? Please | complete the Habitat Function | al Yes No |
| Assessment below. If yes, the Value (5) Does the wetland support more that | | 2 Please com | unlete the Hydrology Functions | al ∏ Yes ∏ No |
| Assessment below. If yes, the V | | . 1 10000 0011 | ipioto tilo riyarology i allotioni | |
| Please include any additional comm | ents justifications and/or su | nnorting doc | umentation related to the Class | s III Assessment as a |
| separate attachment appended to the | is form | | | |
| | | | n emergent wetland located of gricultural field. This portion of | |
| Any of the following scenarios indic | ate the wetland is class iii: | | 2, but the was farmed every y | |
| Checking 'Yes' for Question 1 Checking 'Yes' for Question 2 | | wetland delie | nation. The wetland was dom | inated by volunteer |
| Checking 'Yes' for Question 3 | | native specie | S. | |
| Checking 'Yes' for Question | | | | |
| If the Wetland is Class III, check Cla | ss III at the top of the form. co | omplete the au | opropriate functional assessm | ent on Page 2 (if |

applicable), and the form is now complete.

| <u>Wetlar</u> | nd | Habitat Functional Assessment: | | | | |
|---------------|---|---|----------------------------|--|--|--|
| (6) Do | 6) Does the wetland support moderate habitat? (see options below) | | | | | |
| | | cking yes also meets the requirements of Question 4. | | | | |
| Or | | "Yes" response below is needed to show moderate habitat function. | | | | |
| • | | Indicators of moderate habitat function: ■ Species of Special Concern within a ½ mile radius of the wetland according to the IDNR Natural Heritage | ☐ Yes ■ No | | | |
| | | Database AND the listed species or a life cycle stage uses wetlands for habitat? | | | | |
| | ı | Does the wetland provide habitat corridors between necessary habitat for mobile, state-listed species? | ☐ Yes ■ No | | | |
| | 1 | Are there Important Bird Areas (IBA) mapped for the wetland or within a ½ mile radius? https://databasin.org/datasets/fdb91971a11d46d39661f0a56c3585ca/ | ☐ Yes ■ No | | | |
| | 1 | Is the wetland dominated by native species? Dominated by volunteer native pieces. | ■ Yes □ No | | | |
| | - | Does the wetland support multiple layers of species habitat (wading birds, dabblers, reptiles, amphibians, etc.)? | ☐ Yes ■ No | | | |
| | 1 | Do Rapid Assessment Methods indicate that the wetland supports moderate habitat? Indicate which method used: | ☐ Yes ■ No | | | |
| | | Are other moderate habitat indicators present (Explain in Remarks)? | ☐ Yes ■ No | | | |
| | | nclude any additional comments, justifications, and/or supporting documentation related to the Wetland H nent as a separate attachment appended to this form. | abitat Functional | | | |
| <u>Wetlar</u> | nd | Hydrology Functional Assessment: | | | | |
| | | the wetland support moderate hydrological function? (see options below) | ☐ Yes ■ No | | | |
| Che | eck | king yes also meets the requirements of Question 5. | | | | |
| | | rs of moderate hydrological function. At least one primary indicator or two secondary indicators are neede e hydrological function. | ed to show | | | |
| • | | rimary Indicators: | | | | |
| | L | ☐ Wetland meets two or more primary hydrology indicators on the wetland determination data form.☐ Wetland is located within a floodway or floodplain. | | | | |
| | F | Wetland position in the watershed is 1 st -3 rd order or 4 th – 5 th order if the substrate is sand or silt. | | | | |
| | Ē | ☐ Wetland possesses strong hydric soil indicators (gleyed matrix or >20% redox/mottles present). | | | | |
| | | Wetland is located within a groundwater Wellhead Protection Area. | | | | |
| | | https://www.in.gov/idem/cleanwater/information-about/groundwater-monitoring-and-source-water-protection/weprogram/source-water-proximity-determination-tool/ | <u>ellhead-protection-</u> | | | |
| | | | | | | |
| • | S | econdary Indicators: Wetland is 0.75 acre or larger in size, indicating at least moderate water storage capacity. | | | | |
| | | Welland is 0.75 acre or larger in size, indicating at least moderate water storage capacity. Dominant vegetation in wetland is highly adapted to prolonged inundation (FACW, OBL dominance). | | | | |
| | Ē | ☐ Wetland substrate is sand or silt, indicating higher hydraulic conductivity. | | | | |
| | | Wetland is located within a highly developed landscape (>75% impervious surface in ½ mile radius). | | | | |
| | | Parcel with wetland is bordered by development, roads, or impervious surfaces. | | | | |
| | | Wetland is located within a drinking water Source Water Susceptibility Area. | | | | |
| | Ļ | Wetland is located within a drinking water Source Water Assessment Area | | | | |
| | L | Other (Explain in Remarks) | | | | |
| | | e include any additional comments, justifications and/or supporting documentation related to the Wetland tional Assessment as a separate attachment appended to this form. | d Hydrology | | | |
| | | of the following scenarios indicate the Wetland is Class II: | | | | |
| | | Checking 'Yes' to Question (6) Checking 'Yes' to Question (7) | | | | |
| if + | ho | Wetland is Class II, check Class II at the top of the form, and the form is now complete. | | | | |
| | | Wetland is Class II, check Class II at the top of the form and the form is now complete. Wetland is not Class III or Class II, check Class I at the top of the form and the form is now complete. | | | | |
| | | ng Guidance Documents: | | | | |
| • | : | State Regulated Wetlands: https://www.in.gov/idem/wetlands/information-about/isolated-wetlands-program/ | | | | |

DEPARTMENT OF THE ARMY



U.S. ARMY CORPS OF ENGINEERS, DETROIT DISTRICT 2422 VIRIDIAN DRIVE, SUITE # 200 SOUTH BEND, IN 46628-3489

February 2, 2023

Regulatory Branch File No. LRE-2022-00838-144-A22

Stewart Bender Town of Topeka 124 E. Lake Street Topeka, Indiana 46571

Dear Stewart Bender:

This letter is in response to your request for a Corps of Engineers' (Corps) Approved Jurisdictional Determination (AJD) for the 50-acre Topeka Subdivision site at North Main Street in Topeka, Indiana (Section 30, Township 36 North, Range 8 East, LaGrange County). We recently inspected the property and determined that the wetlands and pond labeled Section I, Section II, and Pond 1 on the enclosed figure fall into a category of isolated wetlands that are not within the regulatory jurisdiction of the Corps of Engineers.

We still exercise regulatory authority over the discharge of dredged and/or fill material into all other waters of the United States, which can include certain isolated waters and wetlands. We will continue to make jurisdiction determinations on all waters of the United States, including wetlands, on a case-by-case basis. Although a Department of the Army permit may not be required in this instance, this determination does not relieve you of the responsibility to comply with applicable state law. We urge you to contact the Indiana Department of Environmental Management (IDEM) at (317) 233-8488 to determine the applicability of state law to your project. A copy of this letter is being forwarded on to the IDEM for its files.

Attached to this determination is an approved jurisdictional determination (AJD). If you are not in agreement with the AJD, you can make an administrative appeal under 33 CFR 331. We have enclosed a Notification of Administrative Appeals Options and Process and Request for Appeal form describing all of your appeals options regarding this AJD. If you accept the AJD, you do not need to sign and submit the appeals form. If you intend to appeal this determination, you must submit a completed RFA form to the Corps' Great Lakes and Ohio River Division (Division) office, preferably via E-Mail at katherine.a.mccafferty@usace.army.mil, or to the following address:

Katherine A. McCafferty Regulatory Administrative Appeals Officer U.S. Army Corps of Engineers, Great Lakes and Ohio River Division 550 Main Street, Room 10780 Cincinnati, Ohio 45202-3222 For an RFA to be accepted we must determine that the RFA is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date on the NAP sheet. If you decide to submit an RFA form, it must be received at the above address by April 2, 2023. Please do not submit an RFA form to the Division office if you do not object to the decision in this letter. You may contact the Appeals Review Officer at (513) 684-2699 and/or send a facsimile at (513) 684-2460.

This jurisdictional determination is valid for a period of five years from the date of this letter unless new information warrants revision of the delineation before the expiration date. Should you have any questions, please contact me at the above address, by E-Mail at Allison.M.Klement@usace.army.mil, or by telephone at (574) 232-1952 ext. 21965. In all communications, please refer to File Number LRE-2022-00838-144-A22.

We are interested in your thoughts and opinions concerning your experience with the Detroit District, Corps of Engineers Regulatory Program. If you are interested in letting us know how we are doing, you can complete an electronic Customer Service Survey from our web site at: https://regulatory.ops.usace.army.mil/customer-service-survey/. Alternatively, you may contact us and request a paper copy of the survey that you may complete and return to us by mail or fax. Thank you for taking the time to complete the survey, we appreciate your feedback.

Sincerely,

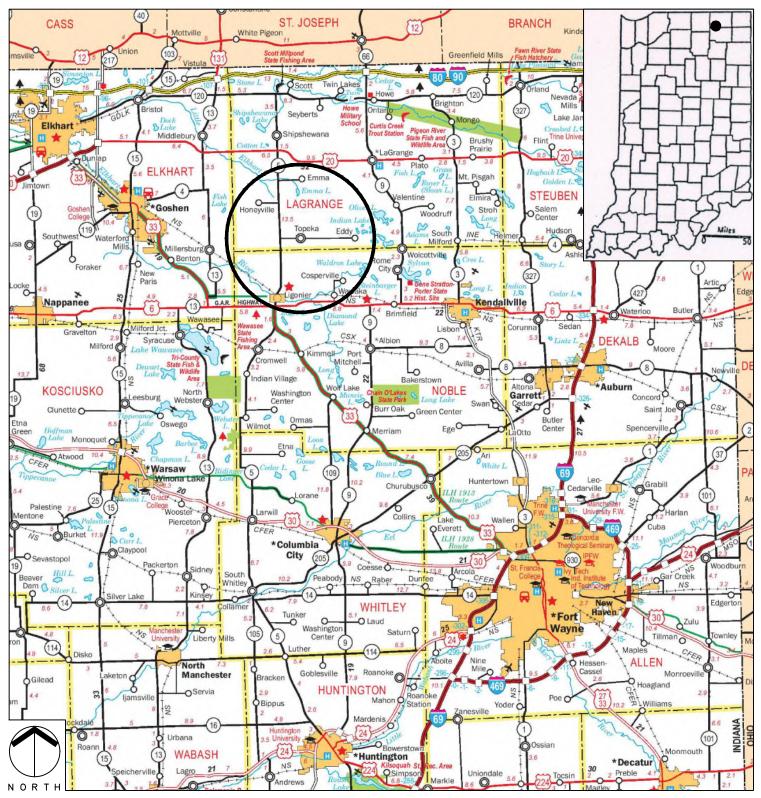
Allison M. Klement

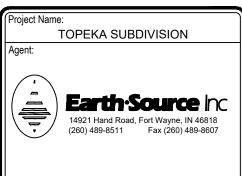
Regulatory Project Manager Michiana Section

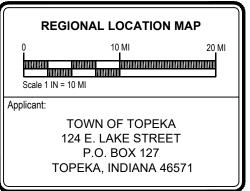
Enclosure

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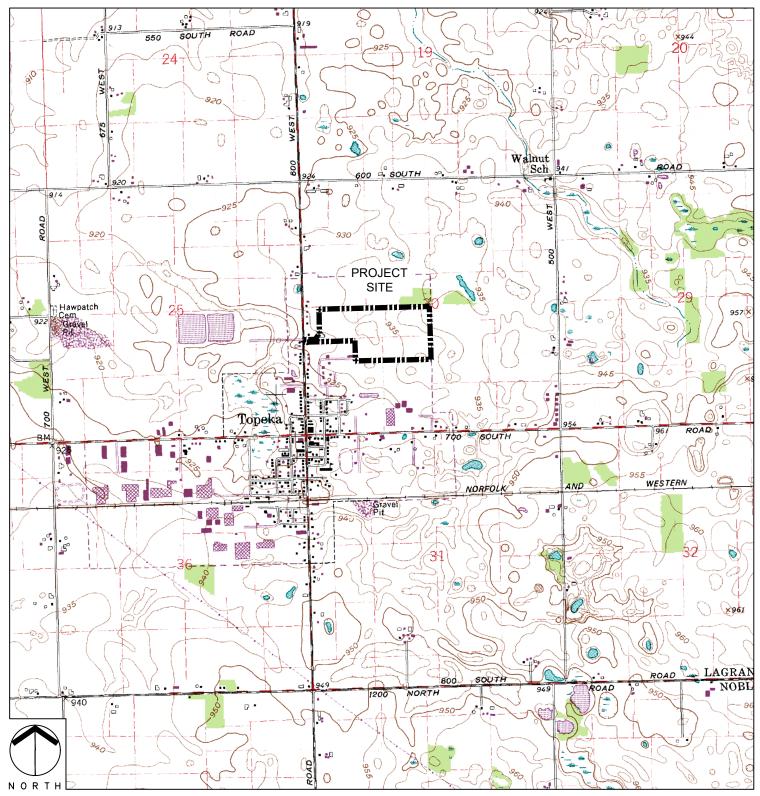
IDEM, Office of Water Quality, White IDNR, Division of Water, Smithers Earth Source, Inc., Nichter

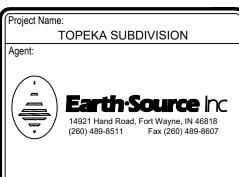


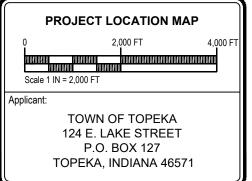




| State: | | County: | |
|-----------------------------|--------|----------|----------|
| INDIANA | A | LAGRANGE | |
| Township Name: | | | |
| | CLEAR | SPRIN | IG |
| Township: | Range: | | Section: |
| T36N | R8 | BE. | SEC 30 |
| Quadrangle: | | | |
| TOPEKA (IN) | | |) |
| Latitude/Longitude (WGS 84) | | | |
| 41.545243°, | | -85.53 | 4121° |
| Date: | | Attachm | ent: |
| 10-27-2022 | | | T1 |

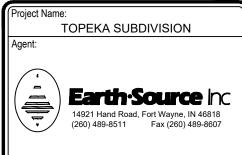


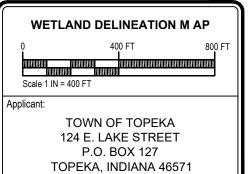




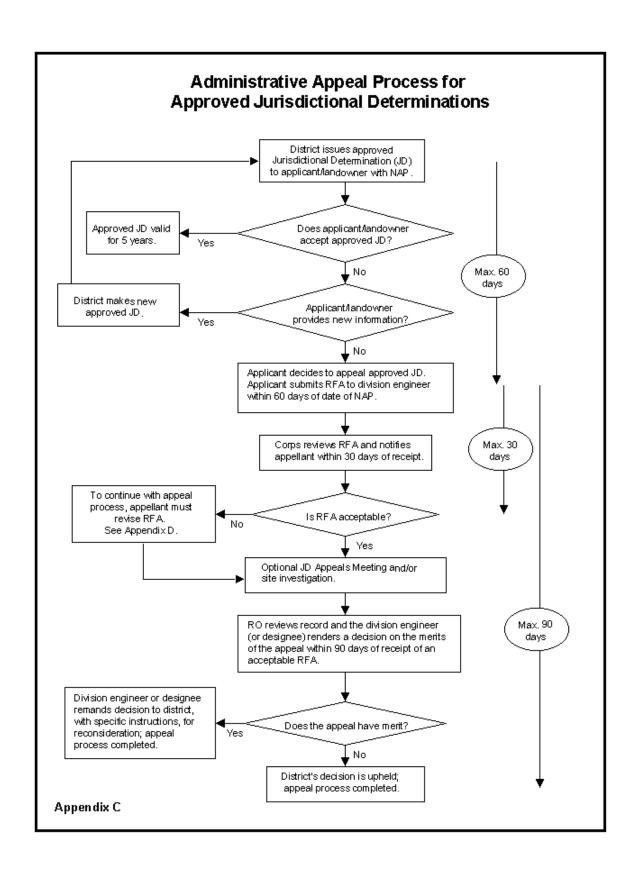
| State: | | County: | |
|------------------------------|--------|---------|-----------|
| INDIANA | A | LA | AGRANGE |
| Township Name: | | | |
| | CLEAR | SPRIN | IG |
| Township: | Range: | | Section: |
| T36N | R8E | | SEC 30 |
| Quadrangle: | ngle: | | |
| TOPEKA (IN) | | |) |
| Latitude/Longitude (WGS 84): | | | |
| 41.545243°, -85.534121° | | | 4121° |
| Date: Attachment: | | | • · · · · |
| 10-27-2022 | | | T2 |







| State: | | County: | |
|------------------------------|--------|----------|----------|
| INDIANA | A | LAGRANGE | |
| Township Name: | | | |
| | CLEAR | SPRIN | IG |
| Township: | Range: | | Section: |
| T36N | R8E | | SEC 30 |
| Quadrangle: | | | |
| TOPEKA (IN) | | | |
| Latitude/Longitude (WGS 84): | | | |
| 41.545243°, -85.534121° | | | 4121° |
| Date: Attachment: | | | ent: |
| 10-27-2022 | | | T6 |



| NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL | | | | | |
|--|--------------------------------|------|---------------|--|--|
| Applicant: Stewart Bender for | File Number: | Date | e: | | |
| the Town of Topeka | LRE-2022-00838-144-A22 | Feb | ruary 2, 2023 | | |
| Attached is: | Attached is: See Section below | | | | |
| INITIAL PROFFERE | Α | | | | |
| PROFFERED PERMIT (Standard Permit or Letter of permission) | | В | | | |
| PERMIT DENIAL | | С | | | |
| X APPROVED JURISDICTIONAL DETERMINATION | | D | | | |
| PRELIMINARY JUR | ISDICTIONAL DETERMINATION | | E | | |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/cecw/pages/reg materials.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer
 for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is
 authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in
 its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional
 determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer
 for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is
 authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in
 its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional
 determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days
 of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the
 approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the

appeal process you may contact:

Allison Klement
U.S. Army Corps of Engineers
Regulatory Branch

you may also contact:

Katherine A. McCafferty
Regulatory Administrative Appeals Officer
U.S. Army Corps of Engineers,

2422 Viridian Drive, Suite # 200

South Bend, IN 46628-3489

Great Lakes and Ohio River Division 550 Main Street, Room 10780
Cincinnati, Ohio 45202-3222

(574) 232-1952 ext. 21965

e-mail: katherine.a.mccafferty@usace.army.mil

If you only have questions regarding the appeal process

Tel. (513) 684-2699 Fax (513) 684-2460

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations

| be provided a 15 day notice of any site investigation, and will | If have the opportunity to partici | pate in all site investigations. |
|---|------------------------------------|----------------------------------|
| | Date: | Telephone number: |
| | | |
| | | |
| Signature of appellant or agent. | | |

APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): February 2, 2023

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Detroit District, Regulatory Branch, Michiana Section, Topeka Subdivision JD, LRE-2022-00838-144-A22

| | PROJECT LOCATION AND BACKGROUND INFORMATION: North Main Street, Parcel ID 44-11-30-300-000.087-006 |
|-----|--|
| | te:Indiana County/parish/borough: LaGrange City: Topeka |
| | nter coordinates of site (lat/long in degree decimal format): Lat. 41.545349° N, Long85.53357° W. |
| | iversal Transverse Mercator: Zone 16, X622308, Y 4600336 |
| | me of nearest waterbody: Emma Creek |
| | me of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: N/A |
| Naı | me of watershed or Hydrologic Unit Code (HUC): 04050001 Great Lakes RegionSoutheastern Lake Michigan |
| | Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. |
| | Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a |
| | different JD form. |
| D. | REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): |
| υ. | Office (Desk) Determination. Date: January 13, 2023 |
| | Field Determination. Date(s): November 22, 2022 |
| | |
| SE | CTION II: SUMMARY OF FINDINGS |
| A. | RHA SECTION 10 DETERMINATION OF JURISDICTION. |
| | (|
| | ere Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the |
| rev | iew area. [Required] Waters subject to the ebb and flow of the tide. |
| | Waters subject to the eob and flow of the fide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. |
| | Explain: |
| | Lapiani. |
| B. | CWA SECTION 404 DETERMINATION OF JURISDICTION. |
| | |
| The | ere Are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] |
| | 4 W. C. B. H.C. |
| | 1. Waters of the U.S. Indicate presence of waters of U.S. in review area (sheek all that apply). |
| | a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas |
| | Wetlands adjacent to TNWs |
| | Relatively permanent waters ² (RPWs) that flow directly or indirectly into TNWs |
| | Non-RPWs that flow directly or indirectly into TNWs |
| | |
| | Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters |
| | Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs |
| | Impoundments of jurisdictional waters |
| | ☐ Isolated (interstate or intrastate) waters, including isolated wetlands |
| | |
| | b. Identify (estimate) size of waters of the U.S. in the review area: |
| | Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: acres. |
| | Wetlands: acres. |
| | c. Limits (boundaries) of jurisdiction based on: Pick List |
| | Elevation of established OHWM (if known): |
| | |
| | 2. Non-regulated waters/wetlands (check if applicable): ³ |
| | Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. |
| | Explain: The aquatic features Pond 1 and Wetland Section I represent a nond excavated out of an emergent wetland |

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

situated within a depression in the landscape. Pond 1 is 0.24 acres of open water resulting from excavation, the remaining emergent wetland (Section I) around the pond perimeter is 0.67 acres. The total acreage of the geographically isolated aquatic resource is 0.91 acres. Wetland Section I has been subject to recent agricultural activities (corn/soybean row crop farming). No surface water outlet or potential subsurface conveyance, such as a pipe or tile inlet was observed at Pond 1/Section I during the Corps site inspection on November 22, 2022. Wetland Section II is a 0.58 acre recently farmed (corn/soybean row crop) wetland situated within a depression in the landscape. No surface water outlet or potential subsurface conveyance, such as a pipe or tile inlet was observed at wetland Section II during the Corps site inspection on November 22, 2022. Prior to the January 2001 Supreme Court decision in "SWANCC," Pond 1, wetland Section I, and wetland Section II would have been regulated under a nexus to interstate/foreign commerce based solely on the "Migratory Bird Rule" (MBR). Based upon the Wetland Delineation Report, the Corps site inspection on November 22, 2022, and a review of applicable resource maps (as cited in Section IV of this form), Pond 1, wetland Section I, and wetland Section II are geographically and hydrologically isolated from a Relatively Permanent Water (RPW) and/or a Traditional Navigable Water (TNW) and are not considered jurisdictional waters of the United States..

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

| 1. | TNW Identify TNW: | |
|----|---|--|
| | Summarize rationale supporting determination: . | |
| 2. | Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent": | |

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: Pick List Drainage area: Pick List Average annual rainfall: inches Average annual snowfall: inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. Tributary flows through **Pick List** tributaries before entering TNW. Project waters are **Pick List** river miles from TNW. Project waters are **Pick List** river miles from RPW. Project waters are **Pick List** aerial (straight) miles from TNW. Project waters are **Pick List** aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW5: Tributary stream order, if known:

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

| (b) | General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: |
|-----|--|
| | Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List. |
| | Primary tributary substrate composition (check all that apply): Silts Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: |
| | Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Pick List Tributary gradient (approximate average slope): % |
| (c) | Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume: |
| | Surface flow is: Pick List. Characteristics: . |
| | Subsurface flow: Pick List. Explain findings: Dye (or other) test performed: |
| | Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain: |
| | If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: |
| Cha | emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: tify specific pollutants, if known: |
| | |

(iii)

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

| | (iv) | Biol | logical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: |
|----|-------|------|--|
| 2. | Cha | ract | eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW |
| | (i) | | General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain: |
| | | (b) | General Flow Relationship with Non-TNW: Flow is: Pick List. Explain: Surface flow is: Pick List Characteristics: Subsurface flow: Pick List. Explain findings: Dye (or other) test performed: |
| | | (c) | Wetland Adjacency Determination with Non-TNW: Directly abutting Not directly abutting Discrete wetland hydrologic connection. Explain: Ecological connection. Explain: Separated by berm/barrier. Explain: |
| | | (d) | Proximity (Relationship) to TNW Project wetlands are Pick List river miles from TNW. Project waters are Pick List aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the Pick List floodplain. |
| | (ii) | Cha | emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: httfy specific pollutants, if known: |
| | (iii) | Biol | logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: |
| 3. | Cha | All | wetland(s) being considered in the cumulative analysis: Pick List broximately () acres in total are being considered in the cumulative analysis. |

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

| D. | DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL |
|----|---|
| | THAT APPLY): |

| 1. | TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: |
|----|---|
| | TNWs: linear feet width (ft), Or, acres. |
| | Wetlands adjacent to TNWs: acres. |
| 2. | RPWs that flow directly or indirectly into TNWs. |
| | Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that |
| | tributary is perennial: . |
| | Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are |
| | jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows |
| | seasonally: . |

| | Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . |
|-----|---|
| 3. | Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C. |
| | Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . |
| 4. | Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: |
| | Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: |
| | Provide acreage estimates for jurisdictional wetlands in the review area: acres. |
| 5. | Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C. |
| | Provide acreage estimates for jurisdictional wetlands in the review area: acres. |
| 6. | Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C. |
| | Provide estimates for jurisdictional wetlands in the review area: acres. |
| 7. | Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below). |
| SUC | DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain: |
| Ide | ntify water body and summarize rationale supporting determination: |

E.

 ⁸See Footnote # 3.
 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

| | Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres. |
|-----|--|
| F. | NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. ☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. ☐ Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). ☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: ☐ Other: (explain, if not covered above): |
| | Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: 0.24 acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: 1.25 acres. |
| | Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres. |
| SEC | CTION IV: DATA SOURCES. |
| Α. | SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:Wetland Delineation Report, Topeka Subdivision, Prepared for: Town of Topeka, 124 East Lake Street, P.O. Box 127, Topeka, Indiana 46571, Prepared by: Earth Source, Inc., 14921 Hand Road, Fort Wayne, Indiana 46818. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name:1:24K, Topeka, Indiana Quadrangle. Delineation report attachment T2. USDA Natural Resources Conservation Service Soil Survey. Citation: LaGrange County Soil Survey Map. Delineation report attachment T4. National wetlands inventory map(s). Cite name: Delineation report attachment T3. State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): 2020, Delineation report attachment D4, 2010 aerial report attachment D5, 2008 report attachment D6, 2007 aerial report attachment D7, 2006 aerial report attachment D8, 2005 aerial report attachment D9, 2003 aerial report attachment D10, and 1965 aerial report attachment D11. or Other (Name & Date): Wetland delineation ground photos dated October 20, 2022, Corps site inspection phtoos |
| | taken November 22, 2022. Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting scientific literature: |

| \triangleright | | Other information (please specify):National Regulatory Viewer | , Great Lakes and | Ohio River I | Division, Indiana | Regulatory | Viewer, |
|------------------|-----|---|-------------------|--------------|-------------------|------------|---------|
| C | orp | ps site inspection November 22, 2022. | | | | | |

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

WETLAND DELINEATION REPORT

TOPEKA SUBDIVISION

Prepared for:

TOWN OF TOPEKA 124 EAST LAKE STREET P.O. BOX 127 TOPEKA, INDIANA 46571

Prepared by:



14921 Hand Road, Ft. Wayne, IN 46818 PH: (260) 489-8511 • Fax: (260) 489-8607

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EXECUTIVE SUMMARY

A wetland delineation prepared for the town of Topeka of the 50-acre Topeka Subdivision site in Topeka (LaGrange County, Indiana) was completed on 20 October 2022. The wetland delineation was performed using the routine on-site determination method as set forth by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0).

Under Sections 404 and 401 of the Clean Water Act, the Army Corps of Engineers (ACOE) and/or the Indiana Department of Environmental Management (IDEM) have jurisdiction over waters of the United States. This includes wetlands and other waters with an identifiable connection to interstate commerce. Wetlands not regulated under Section 401 and 404 of the Clean Water Act are regulated by the State of Indiana under IC 13-18-22. Any activity that involves the placement of fill and/or excavation within these jurisdictional areas may require notification and authorization of the appropriate regulatory agency. Jurisdictional status of waters identified within this report is based on Earth Source, Inc.'s interpretation and understanding of the definition and scope of waters of the United States protected under the Clean Water Act and related communications with ACOE Division and District personnel.

As illustrated by the attached wetland delineation plan (T6), a 0.24-acre private pond and 1.25 acres of isolated wetland were identified within the project limits (Table 1).

TABLE 1. SUMMARY OF WATER RESOURCES

| Feature | Size | Description |
|--------------------------|---|-------------------------------------|
| Pond 1 | Pond 1 0.24 acre Excavated pond - Isolated | |
| Section I | ction I 0.67 acre Emergent Wetland, Farmed - Isolated | |
| Section II 0.58 acre Eme | | Emergent Wetland, Farmed - Isolated |

INTRODUCTION

A wetland delineation prepared for the Town of Topeka of the 50-acre Topeka Subdivision site in Topeka (LaGrange County, Indiana) was completed on 4 October 2022 (limits of delineation noted on attached plans T2 – T7). Site conditions were 45°F and cloudy. The project is located in portions of Section 30 of Clearspring Township, Township 36 North, Range 8 East in LaGrange County, Indiana (Latitude: 41.545243°, Longitude: -85.534121°, WGS 84). The wetland delineation was performed using the routine on-site determination method as set forth by 1987 Corps of Engineers Wetlands Delineation Manual: Midwest Region (Version 2.0).

METHODOLOGY

Two (2) transects were set perpendicular to the baseline and modified to encompass all areas and community types within the site boundary. Data stations included areas identified by soils data, the U.S. Fish and Wildlife Service (FWS) National Wetland Inventory, and Aerial Photography as potential wetlands. Soil, hydrology, and vegetation data were collected for each cover type encountered.

The three criteria required for the determination of an area to be a wetland are 1) Hydric Soils, 2) Wetland Hydrology, and 3) Dominance of Hydrophytic Vegetation. Hydric Soils criteria are met with a hydric soils listing and/or the presence of Histosols (organic soils peat or muck), a histic epipedon, or reduced mineral soils with low matrix chroma of 2 or less with mottles, or with a matrix chroma of 1 without mottles, or gleved soils, and/or the presence of other hydric soil indicators such as an aquic or peraguic moisture regime, ponding or a water table near the surface for at least one week during the growing season. Wetland Hydrology criteria are met or assumed by the presence of inundation or saturated soils and/or the confirmed presence of hydrologic field indicators such as water marks, debris deposits or morphological plant adaptations to life in anaerobic soil conditions. Hydrophytic Vegetation is a plant adapted to life in permanently or periodically inundated or saturated soil conditions. Wetland vegetation is characterized as an obligate, facultative wetland, or facultative species dependent upon the frequency these species are found in wetlands. The Hydrophytic Vegetation criterion is met when, upon identification of the dominant plant species in each stratum or layer of the plant community, a dominance (greater than 50 percent) of obligate, facultative wetland or facultative species is indicated. The hydrophytic vegetation criterion was based upon persistent vegetation. In order for an area to be determined as a wetland, all three criteria must be positively identified.

In order for an area to be subject to federal regulation, all three wetland criteria must be positively identified, and the area must meet the definition of *waters of the United States* found at 33 CFR 328.3 (a).

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WETLAND DELINEATION SUMMARY

Two (2) isolated wetlands and one (1) excavated private pond were identified within the limits of the site. The wetland delineation was performed using the routine on-site determination method as set forth by 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0). The site consists agricultural land. Based on the three 30-day periods preceding the wetland delineation, the delineation was conducted in a "Drierthan-Normal" year compared to the precipitation totals from the preceding 30 years. A discussion of the delineated water resources found on the site is presented below.

Isolated Wetlands and Other Waters

Two (2) isolated wetlands and one (1) excavated private pond were identified within the limits of the site. The delineated areas do not appear to have a discernable surface water or tile connection to other *waters of the United States* and do not appear to meet the definition of *waters of the United States* as defined by 33 CFR 328.3 (a) and consistent with the *SWANCC* and Rapanos decisions. For isolated, intrastate, non-navigable waters, ACOE jurisdiction may be possible if their use, degradation, or destruction could affect interstate commerce as described in 33 CFR 328.3 (a) (3) (i)-(iii).

Section I: Section I is an emergent wetland located within an active agricultural field and surrounding Pond 1. No tile inlets or riser structures were observed within this wetland. No discernable connections to other waters were identified. This area of the agricultural field has had limited crop success and shows up on the WETS analysis (Appendix D: Wetland Mapping Conventions. This section is class is classified as a Palustrine, Emergent, Temporarily Flooded, Farmed (PEMAf) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (T6), the delineated area is 0.67 acres. Below is a typical data point taken from within Section I (Appendix A: Data Form T1P5 & T1P7).

Hydric Soil: This area is listed by the LaGrange County Soil Survey as Rensselaer loam. The Rensselaer soil series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/1 with 10% 10YR 4/6 redox concentrations (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of: depleted matrix (F3).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were not present. Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the "50/20 rule" and are marked

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with an asterisk (*). Below is the vegetation data from T1P5 (Appendix A) that represents a typical data point for the wetland community type:

Herbaceous Stratum Species List (5-ft radius):

Large Barnyard Grass* Echinochloa crus-galli **FACW** Fall Panic Grass* Panicum dichotomiflorum **FACW** Common Spike-Rush Eleocharis palustris OBL Pinkweed Persicaria pensylvanica **FACW** Annual Ragweed Ambrosia artemisiifolia **FACU** Reed Canary Grass Phalaris arundinacea FACW

The total number of dominant species across all strata was two (2) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic Vegetation is met by the Dominance Test.

Section II: Section II is an emergent wetland located within an agricultural field. No tile inlets or riser structures were observed within this wetland. No discernable connections to other waters were identified. This area shows up on the WETS Analysis (Appendix D: Wetland Mapping Conventions). The agricultural field was not planted in 2022, but corn stubble from a previous year was present. This section is class is classified as a Palustrine, Emergent, Temporarily Flooded, Farmed (PEMAf) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (T6), the delineated area is 0.58 acres. Below is a typical data point taken from within Section II (Appendix A: Data Form T1P2).

Hydric Soil: This area is listed by the LaGrange County Soil Survey as Parr Loam. The Parr soil series is not listed as hydric, but may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/2 with 10% 10YR 4/6 redox concentrations. (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of: Depleted matrix (F3).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were not present. Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were saturation visible on aerial imagery (C9), geomorphic position (D1), and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the "50/20 rule" and are marked with an asterisk (*). Below is the vegetation data from T6P2 (Appendix A) that represents a typical data point for the wetland community type:

Herbaceous Stratum Species List (5-ft radius):

Fall Panic Grass* Panicum dichotomiflorum FACW Pinkweed* Persicaria pensylvanica FACW Annual Ragweed Ambrosia artemisiifolia FACU

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Red-Root Amaranthus retroflexus FACU Great Ragweed Ambrosia trifida FAC

The total number of dominant species across all strata was two (2) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic vegetation indicator is met by the Dominance Test.

Pond 1: Pond 1 is a private pond excavated prior to 1998 and enlarged between 2008 and 2010. The pond was excavated from agricultural land in hydric Rensselaer loam soil. Pond 1 has no discernable connection to other waters. The pond is classified by the Cowardin Methodology (FWS) as a palustrine, open water, permanently flooded, excavated (POWHx). As illustrated by the attached wetland delineation plan (T6), the delineated area is 0.24 acres. Below is a typical data point taken from within Pond 3 (Appendix A: Data Forms T1P6).

CONCLUSIONS AND RECOMMENDATIONS

In Indiana, waters of the United States, including wetlands, are subject to regulation by the Army Corps of Engineers (ACOE) and/or the Indiana Department of Environmental Management (IDEM). Under Sections 404 and 401 of the Clean Water Act, the ACOE and/or the IDEM have jurisdiction over any activity that involves the placement of fill into, and/or excavation of, a delineated water of the United States. Wetlands located adjacent to waters of the United States or that have a connection to interstate commerce are considered waters of the United States.

The jurisdictional status of delineated waters identified in this report are based upon Earth Source's interpretation of 1987 *Corps of Engineers Wetlands Delineation Manual* (TRY-87-1), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) and Rapanos guidance. Wetland Sections I and II and Pond 1 appear to be isolated waters. The ACOE is the regulatory authority with regard to wetlands or other *waters of the United States*. *Waters* not regulated under Section 401 and 404 of the Clean Water Act are regulated by the State of Indiana under IC 13-18-22.

In order for a wetland to be classified as isolated an approved jurisdictional determination must be provided by the ACOE. Wetland "Class" must be approved by IDEM and typically, a notice of exemption is to be filed with IDEM. Exempt isolated wetlands are "Class I" wetlands and "Class II" wetlands described as the following and may limited to the larger of: 1) the acreage of an individual isolated "Class II" wetland delineated as three-eighths (3/8) acre or less; 2) sixty percent (60%) of the cumulative acreage of all individual isolated "Class II" wetlands delineated as three-eighths (3/8) acre or less. "Exempt" waters of the State (isolated wetlands), typically will not require mitigation but involve submittal of notification to the agencies at least 15 days prior to project initiation. A permit is not required for dredge and fill activities in a "Class II" wetland that is 1) located within the boundaries of a municipality and 2) has a delineated area of not more than three-fourths (3/4) acre. Impacts to "Class II" wetlands that meet these criteria typically will not require mitigation, but involve submittal of notification to the agencies prior to project initiation. For isolated wetlands, impacts to "Class III" wetlands will require an Individual Permit. Nonexempt "Class II" wetlands may qualify for the general permit program analogous to those allowed under the RGP and NWP for minimal impacts, or otherwise requires an Individual

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Permit. Compensatory mitigation shall be provided in accordance with the following Table 2:

Table 2. Isolated Wetland Compensatory Mitigation Ratios

| Wetland Class | Replacement Class | On-site and In- Lieu Fee Ratio | Off-site Ratio |
|---------------|-------------------|-----------------------------------|--------------------------|
| Class II | Class II or III | 1.5 to 1 Non-forested | 2 to 1 Non-forested |
| | | 2 to 1 Forested | 2.5 to 1 Forested |
| Class III | Class III | 2 to 1 Non-forested | 2.5 to 1 Non-forested |
| | | 2.5 to 1 Forested | 3 to 1 Forested |

Compensatory mitigation ratios may be lowered to 1 to 1 if the mitigation is completed before the initiation of the wetland activity. Also, exempt isolated wetlands may be used to provide compensatory mitigation for wetlands activities in state regulated wetlands.

SUMMARY OF ACRONYMS AND REFERENCES

Indicator Status Acronyms:

OBL (Obligate Wetland). Occur almost always in wetlands.

FACW (Facultative Wetland). Usually occur in wetlands.

FAC (Facultative). Likely to occur in wetlands or uplands.

FACU (Facultative Upland). Usually occur in uplands.

UPL (Obligate Upland). Occur almost always in uplands.

N/I (No Indicator). Indicator status unavailable.

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APPENDIX A DATA FORMS

| Project/Site: Topeka Subdivision | Cit | y/County: | Topeka/LaGrange | Sample Date: | 10-20-2022 |
|---|---------------------------|------------------|--|---------------------------------------|---------------|
| Applicant/Owner: Town of Topeka | | | State: IN | Sample Point: | T1P1 |
| Investigator(s): Ashlee Nichter, Katelyn Gutwein Landform (hillslope, terrace, etc.): Plain | Se | ction: Township | o, Range: <u>Sec 30: T36N, R8B</u> elief (concave, convex, none): | None | |
| Slope (%): 2 Lat: 41.545243° | Loi | | | Datum: WGS 84 | |
| Soil Map Unit Name: Parr Loam | | ng. <u>00.00</u> | NWI classification: | | |
| Are climatic/hydrologic conditions on the site typical for | | Х | | lain in Remarks.) | |
| Are Vegetation , Soil , or Hydro | ology signific | antly disturbed | | | No |
| Are Vegetation , Soil , or Hydro | ology natura | lly problematic? | (If needed, explain any ans | wers in Remarks.) | |
| Summary of Finding – Attach site map showin | g sampling point location | ons, transect | , important features, etc. | | |
| Hydrophytic Vegetation Present? Yes | No X | Is the Sa | ampled Area | | |
| Hydric Soil Present? Yes | No X | | a Wetland? | No | X |
| Wetland Hydrology Present? Yes Remarks: Upland old field west of Section II, plan | No X | 11 0001 | | | |
| | | | | | |
| /egetation – Use scientific names of plants. | Absolute Dominan | t Indicator | <u> </u> | | |
| <u>Tree Stratum</u> (Plot size): 30-ft radius | % Cover Species? | | Dominance Test worksheet: | | |
| 1. 2. | | <u> </u> | Number of Dominant Species That are OBL, FACW or FAC: | 0 | (A) |
| 3. 4. | | <u> </u> | Total Number of Dominant Species Across All Strata: | 1 | (B) |
| 5 | = Total Cover | <u> </u> | Percent of Dominant Species That are OBL, FACW, or FAC: | 0.0% | (A/B) |
| Combine of Charache Chronic (District) 45 ft and in | = 10tal 60vel | | Prevalence Index worksheet | | |
| Sapling/Shrub Stratum (Plot size): 15-ft radius 1. | | | Total % Cover of: | : Multiply b | by: |
| 2. | | | OBL species | x 1 = | <u> </u> |
| 3. | | | FACW species | x 2 = | |
| 4. | | | FAC species | x 3 = | |
| 5 | | | FACU species | x 4 = | |
| | = Total Cover | | UPL species | x 5 = | |
| Herb Stratum (Plot size): 5-ft radius | | | Column Totals: | (A) | (B) |
| Erigeron canadensis | X | FACU | Prevalence Index = B/A | | |
| 2. Panicum dichotomiflorum | 15 | FACW FACU | Hydrophytic Vegetation India | | |
| Amaranthus retroflexus Sonchus oleraceus | <u>10</u> 10 | FACU | Rapid Test for Hydrop Dominance Test > 50 | | |
| 5. Erigeron annuus | 5 | FACU | Prevalence Index is ≤ | | |
| 6. | | 1700 | 1 | ations¹ (Provide supporti | ing data in |
| 7. | | | Remarks or on a sepa | | ing data in |
| 8. | | - | | ytic Vegetation ¹ (Explair | n) |
| 9. | | - | | | , |
| 10 | | | ¹ Indicators of hydric soil and w | etland hydrology must | t be present, |
| | | | unless disturbed or problemati | C. | |
| Woody Vine Stratum (Plot size): 30-ft radius | 90 = Total Cove | er | Hydrophytic Vegetation Present? | Yes | No X |
| 9. | · | | | | |
| 10 | = Total Cove | er | | | |
| Remarks: (Include photo numbers here or on a se | eparate sheet.) | | l | | |
| | | | | | |

Sampling Point: T1P1 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 Type¹ Loc2 Silt Loam 10YR 3/3 0-12 12-24 10YR 5/3 Silt Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Project/Site: | Topeka Subdivision | | | | City/9 | County: | Topeka/LaGrange | | Sample D | ate: 10-2 | 20-2022 |
|------------------------|--------------------------|-----------|-----------|----------------------------|----------------------|----------------------------|---------------------------------------|----------------------------|----------------|----------------|---------|
| Applicant/Owner: | | | | | | | | ite: IN | Sample Po | | |
| Investigator(s): | Ashlee Nichter, K | | | | Secti | ion: Township | | c 30: T36N, R8E | | | |
| Landform (hillslop | | Depress | | | · | | elief (concave, conv | /ex, none): | Concave | | |
| | | .545243 | ,• | | Long | : <u>-85.53</u> 4 | | | | GS 84 | |
| Soil Map Unit Na | | | | | | ., | | /I classification: | PEMAf | ` | |
| • | ologic conditions on the | | | | | X | No | | ain in Remarks | , | |
| Are Vegetation | , Soil | | or Hydrol | logy | | ntly disturbed | | l Circumstances" | | Yes X | No |
| Are Vegetation | , Soil | | or Hydrol | | naturally | problematic? | (ii needed, (| explain any answ | ers in Remark | S.) | |
| Summary of Fir | nding – Attach site | map s | howing | g sampling | point location | ıs, transect | , important feat | ures, etc. | | | |
| | egetation Present? | Yes | Х | No | | le the Se | ampled Area | | | | |
| Hydric Soil Pre | | Yes | Χ | No | | | a Wetland? | Yes X | No | | |
| | ology Present? | Yes | Χ | No | | | a Welland. | | | | |
| Remarks: Sec | ction II – Farmed eme | ergent w | retland, | planted with | ocorn and harve | sted in 2021 | | | | | |
| /egetation – Us | se scientific names o | of plant | S. | | | | T | | | | |
| Tree Stratum | (Plot size): 30-ft ra | adius | | Absolute <u>% Cover</u> | Dominant Species? | Indicator <u>Status</u> | Dominance Tes | st worksheet: | | | |
| 1. 2. | | | | - | | | Number of Domir That are OBL, FA | | | 2 | (A) |
| 3. 4. | | | | | | | Total Number of Species Across A | | | 2 | (B) |
| 5. | | | | | | | Percent of Domir | | | | |
| | | | | | = Total Cover | | That are OBL, FA | ACW, or FAC: | | 100.0% | (A/B) |
| Sapling/Shrub 1. | Stratum (Plot size | e): 15-ft | radius | | | | Prevalence Ind | ex worksheet: Cover of: | Λ. | Multiply by: | |
| 2. | | | | | | | OBL species | 00001 01. | x 1 = | numpiy by. | |
| 2 | | | | - | | - | FACW species | | x 2 = | | |
| 4. | | | | | | - | FAC species | | x 3 = | | |
| 5. | | | | | | | FACU species | | x 4 = | | |
| | | | | | = Total Cover | <u> </u> | UPL species | , | x 5 = | | |
| Herb Stratum | (Plot size): 5-ft | t radius | | | = Total Cover | | Column Totals: | | (A) | | (B) |
| | n dichotomiflorum | radius | | 40 | X | FACW | Prevalence | Index = B/A = | | | |
| | ria pensylvanica | | | 30 | X | FACW | Hydrophytic Ve | | | | |
| | ia artemisiifolia | | | 15 | | FACU | | Test for Hydroph | | n | |
| | thus retroflexus | | | 10 | | FACU | | nance Test > 50% | | | |
| 5. Ambros | | | | 5 | | FAC | | lence Index is ≤ 3 | | | |
| 6. | ia timaa | | | | | | | nological Adaptati | | supporting dat | ta in |
| 7. | | | | | | | | rks or on a separ | | supporting dat | .a III |
| 8. | | | | | | | | ematic Hydrophyt | , | (Explain) | |
| 9. | | | | | | - | | | | (= | |
| 10 | | | | | | | ¹ Indicators of hy | dric soil and we | tland hydrolo | av must be p | resent. |
| | | | | | | | unless disturbed | | | | |
| Woody Vine S | itratum (Plot size): | 30-ft | radius | 100 | = Total Cover | | Hydrophytic Vegetation Present? | • | es X | No | |
| 9. 10 | | | | | _ | | | | | | |
| - | | | | | = Total Cover | | | | | | |
| Remarks: (Inc | lude photo numbers I | nere or | on a se | parate sheet | t.) | | | | | | |
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Sampling Point: T1P2 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color Texture Remarks Silty Clay Loam 10YR 4/2 10YR 4/6 0 - 1414-24 10YR 3/1 10YR 3/6 М Silty Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** Χ No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living roots (C3) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes _X_ No (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

| Solid Soli | Project/Site: Top | peka Subdivision | | | City/0 | County: | Topeka/LaGrange | | Sample Date: | 10-20-20 | 022 |
|--|-------------------|-----------------------|------------------|-----------------|----------------|--------------|---------------------------|--------------------|----------------------|----------------|-------|
| Landform (hilislope, terrace, etc.): Plain Local rield (concave, convex, none): None None None Stope (%): 2 | | Town of Topeka | | | | | Sta | | Sample Point: | | |
| Slope (No): | | | | | Secti | | | | | | |
| Soil Map Unit Name: Part Loam | | | | | Long | | , | ex, none): | | 14 | |
| Are climatichydrologic conditions on the site typical for this time of year? Yes X No Are Vegetation Soll of thydrology significantly disturbed? (If needed, explain in Remarks.) Are Vegetation Soll of thydrology significantly disturbed? (If needed, explain any answers in Remarks.) X No Are Vegetation Present? Yes No X No Wetland Phydrology Present? Yes No X No Wetland Hydrology Present? Yes No X No X Within a Wetland? Yes No X Wetland Hydrology Present? Yes No X No | | | | | Long | 00.002 | | /I classification: | | 4 | |
| Are Vegetation Soil of Hydrology significantly disturbed? Are Thydrology analy problematic (fineded, explain any answers in Remarks.) Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc. Hydrophytic Vegetation Present? Yes X No X Within a Wetland Hydrology Present? Yes X No X Within a Wetland Hydrology Present? Yes No X Within a Wetland? Wetland Hydrology Present? Yes No X Within a Wetland? Vegetation – Use scientific names of plants. Tree Stratum (Plot size): 30-ft radius Absolute Species 2 Status 1. Total Number of Dominant Species 1. Total | | | | this time of ve | ar? Yes | X | | | | | |
| Are Vegetation, Soil, or Hydrology naturally problematic? ((If needed, explain any answers in Remarks.)) Summary of Finding — Attach site map showing sampling point locations, transect, important features, etc. Hydrophytic Vegetation Present? | • | | | | | | | | | X No |) |
| Hydrophytic Vegetation Present? | Are Vegetation | , Soil | , or Hydro | ology | naturally | problematic? | (If needed, e | explain any answ | vers in Remarks.) | <u> </u> | |
| Hydric Soil Present? Yes | Summary of Find | ling – Attach site | map showin | g sampling | point location | s, transect | , important featu | ures, etc. | | | |
| Wetland Hydrology Present? Yes No X Within a Wetland? Yes No X | Hydrophytic Veg | getation Present? | | No | X | le the Sa | mnled Area | | | | |
| No | , | | | | | | | Yes | No | X | |
| Tree Stratum | | | | | | | | | | | |
| Absolute Dominant Status | | | | | | | | | | | |
| Tree Stratum | /egetation – Use | scientific names of | of plants. | Absoluto | Dominant | Indicator | I | | | | |
| That are OBL, FACW or FAC: 1 | | (Plot size): 30-ft ra | adius | | | | | | | | |
| 4. | 2. | | | | | | That are OBL, FA | CW or FAC: | 1 | | (A) |
| Sapling/Shrub Stratum (Plot size): 15-ft radius 1. | 4. | | | | | | | | 3 | | (B) |
| Prevalence Index worksheet: Total % Cover of: Multiply by: | 5 | | | | = Total Cover | | | | 33.3 | 3% | (A/B) |
| Total % Cover of: Multiply by: | Sapling/Shrub S | tratum (Plot size | e): 15-ft radius | | - 10141 00101 | | , | , | | ,,,0 | |
| 3. | | | ., | | | | | | | ly by: | |
| 4. | 2. | | | | | | OBL species | | x 1 = | | |
| FACU species | 3. | | | | | | • | | | | _ |
| Herb Stratum (Plot size): 5-ft radius Stratum (Plot size): 5-ft radius Stratum (Plot size): 5-ft radius Symphyotric vegetation Symphyotr | | | _ | | | | • | | | | _ |
| Herb Stratum (Plot size): 5-ft radius 1. Erigeron canadensis 30 X FACU Prevalence Index = B/A = | 5 | | | | | | • | | | | _ |
| 1. Erigeron canadensis 2. Panicum dichotomiflorum 3. Symphyotrichum pilosum 4. Echinochloa crus-galli 5. Ambrosia artemisiifolia 6. Ambrosia trifida 7. Sorghum halepense 8. Sorghum halepense 10 10 10 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 11 | | | | = | = Total Cover | | UPL species | | x 5 = | | |
| 2. Panicum dichotomiflorum 3. Symphyotrichum pilosum 4. Echinochloa crus-galli 5. Ambrosia artemisiifolia 6. Ambrosia trifida 7. Sorghum halepense 10 10 FACU Rapid Test for Hydrophytic Vegetation FACU Prevalence Index is ≤ 3.0¹ FACU Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 9. 10 100 ■ Total Cover Woody Vine Stratum (Plot size): 30-ft radius 15 X FACW Product Prevalence Index is ≤ 3.0¹ FACU Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be presunless disturbed or problematic. Hydrophytic Vegetation Yes No Present? | | , | t radius | 30 | X | FACU | | Index - R/A - | | | (B) |
| 3. Symphyotrichum pilosum 15 X FACU Rapid Test for Hydrophytic Vegetation 4. Echinochloa crus-galli 10 FACW Dominance Test > 50% 5. Ambrosia artemisiifolia 10 FACU Prevalence Index is ≤ 3.0¹ 6. Ambrosia trifida 10 FAC Morphological Adaptations¹ (Provide supporting data Remarks or on a separate sheet) 7. Sorghum halepense 10 FACU Remarks or on a separate sheet) 9. Problematic Hydrophytic Vegetation¹ (Explain) 10 ¹Indicators of hydric soil and wetland hydrology must be presunless disturbed or problematic. Hydrophytic Vegetation Yes No Yegetation Yes No | | | | | | | | | | | |
| 4. Echinochloa crus-galli 5. Ambrosia artemisiifolia 6. Ambrosia trifida 7. Sorghum halepense 10 10 FACU Prevalence Index is ≤ 3.0¹ Morphological Adaptations¹ (Provide supporting data Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 10 1Indicators of hydric soil and wetland hydrology must be presunless disturbed or problematic. Woody Vine Stratum (Plot size): 30-ft radius 100 Total Cover Woody Vine Stratum (Plot size): 30-ft radius Present? Dominance Test > 50% Prevalence Index is ≤ 3.0¹ Morphological Adaptations¹ (Provide supporting data Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1Indicators of hydric soil and wetland hydrology must be presunless disturbed or problematic. Hydrophytic Vegetation Present? Yes No | | | | | | FACU | | • | | | |
| 6. Ambrosia trifida 7. Sorghum halepense 8. 9. 10 FACU Remarks or on a separate sheet) 9. 10 | | | | | | FACW | | | | | |
| 7. Sorghum halepense 10 FACU Remarks or on a separate sheet) 8. Problematic Hydrophytic Vegetation¹ (Explain) 9. 10 | 5. Ambrosia | artemisiifolia | | 10 | | FACU | Preval | ence Index is ≤ | 3.0 ¹ | | |
| 8. Problematic Hydrophytic Vegetation¹ (Explain) 9. | 6. Ambrosia | trifida | | 10 | | FAC | Morph | ological Adaptat | tions1 (Provide supp | orting data in | ı |
| 9. | | halepense | | 10 | | FACU | | • | , | lain) | |
| Woody Vine Stratum (Plot size): 30-ft radius 9. | | | | | | | 11 12 1 | | | , , | |
| Woody Vine Stratum (Plot size): 30-ft radius 9 | 10 | | | | | | | | , ,, | ust be prese | ∌rit, |
| 9 | Woody Vine Stra | atum (Plot size): | 30-ft radius | 100 | = Total Cover | | Hydrophytic Vegetation | • | | No X | |
| | | | | | | | | | | | |
| = I otal Cover | | | | | = Total Cover | | | | | | |
| Remarks: (Include photo numbers here or on a separate sheet.) | Remarks: (Includ | de photo numbers (| here or on a se | eparate sheet. |) | | | | | | |

Sampling Point: T1P3 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color Texture Remarks Silty Clay Loam 10YR 4/1 10YR 4/6 0-12 12-24 10YR 5/2 10YR 5/6 М Silt Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** Χ No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Project/Site: Topeka Su | ubdivision | | City/0 | County: | Горека/LaGrange | | Sample Date: | 10-20-2022 |
|--|--|---------------|----------------|--------------------------------|-------------------------------------|--------------------|--------------------------------|------------------|
| | n of Topeka | | • | | | ite: IN | Sample Point | |
| | ee Nichter, Katelyn Gutwein | | Secti | on: Township | | c 30: T36N, R8E | | |
| Landform (hillslope, terrace | | | | | elief (concave, conv | /ex, none): | None | |
| Slope (%): 0 | Lat: 41.545243° | | Long | : -85.534 | | | Datum: WGS | 84 |
| Soil Map Unit Name: | Parr Loam | | 0 1/ | | | /I classification: | None | |
| | ditions on the site typical for | | | X | No | | ain in Remarks.) | - V N- |
| Are Vegetation Are Vegetation | , Soil , or Hydro , Soil , or Hydro | ology | | ntly disturbed problematic? | | Circumstances" | present? Ye ers in Remarks.) | s <u>X</u> No _ |
| | | | | | • | | eis iii Keillaiks.) | |
| Summary of Finding – A | Attach site map showin | ig sampling | point location | is, transect | , important feat | ures, etc. | | |
| Hydrophytic Vegetation Hydric Soil Present? | Present? Yes X Yes | No No | X | | mpled Area | Vos | No | |
| Wetland Hydrology Pres | | No | X | Within a | a Wetland? | Yes | NO | X |
| Remarks: Upland old fi | | INU | ^ | | | | | |
| · | | | | | | | | |
| egetation – Use scienti | fic names of plants. | Absolute | Dominant | Indicator | | | | |
| | size): 30-ft radius | % Cover | Species? | Status | Dominance Tes | | | |
| 1. 2. | | | | | Number of Domir That are OBL, FA | | | 2 (A |
| 0 | | | | | Total Number of Species Across A | Dominant | | (E |
| 5. | | | | | Percent of Domir | | | |
| | | : | = Total Cover | | That are OBL, FA | | 66 | .7% (A/ |
| Sapling/Shrub Stratum | (Plot size): 15-ft radius | | | | Prevalence Ind | | | |
| 1. 2. | | | | | Total % OBL species | Cover of: | Mult x 1 = | iply by: |
| 2 | | | | | FACW species | | x 2 = | |
| . — | | - | | | FAC species | | x 3 = | |
| 5. | | | | - | FACU species | | x 4 = | |
| | | | = Total Cover | | UPL species | , | x 5 = | |
| Herb Stratum (Plot | size): 5-ft radius | ' | - Total Cover | | Column Totals: | | (A) | (E |
| 1. Erigeron canader | , | 25 | X | FACU | Prevalence | Index = B/A = | | |
| 2. Panicum dichotor | | 25 | $\frac{X}{X}$ | FACW | Hydrophytic Ve | | | |
| 3. Echinochloa crus | | 20 | - X | FACW | | Test for Hydroph | | |
| 4. Ambrosia trifida | -gain | 15 | | FAC | | nance Test > 50% | | |
| 5. Symphyotrichum | nilosum | 10 | | FACU | | lence Index is ≤ 3 | | |
| 6. Setaria faberi | рповат | 5 | | FACU | | | ions¹ (Provide sup | norting data in |
| 7. | | | | | | rks or on a sepai | | porting data in |
| 8. | | | | | | | ic Vegetation ¹ (Ex | rolain) |
| 9. | | | | | 1 10510 | omano riyaropilyi | io vogotation (Ex | piairi) |
| 10 | | | - | - | ¹ Indicators of hy | dric soil and we | tland hydrology r | nust be present. |
| | | | | - | unless disturbed | | , ,, | |
| Manda Nina Otastana | (Dist size). 20 ft and in | 100 | = Total Cover | | Hydrophytic | a or problematic | • | |
| | (Plot size): 30-ft radius | | | | Vegetation Present? | Y | es X | No |
| 9. 10 | | | | | | | | |
| | | | = Total Cover | | | | | |
| Remarks: (Include photo | o numbers here or on a se | eparate sheet | .) | | | | | |
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Sampling Point: T1P4 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 Silty Clay Loam 10YR 3/3 0-16 16-24 10YR 4/4 10YR 5/6 10 М Silty Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| | peka Subdivisio | | | | City/0 | County: | Topeka/LaGra | | | Sample Date: | 10-20-2 | 022 |
|--|---------------------------|---------------------------------------|---------------|----------------|-----------------|----------------|---------------------------|--------------------------------|--------------|-----------------|---------------|-------|
| Applicant/Owner: | Town of Tope | | S | | 04 | T | D | State: IN | | Sample Point: | T1P5 | |
| Investigator(s): Landform (hillslope: | Ashlee Nichte | er, Katelyn C Depres | | | Secti | ion: Township | | Sec 30: T36N convex, none): | | cave | | |
| Slope (%): 0 | , terrace, etc.). Lat: | 41.545243 | | | Long | | , | convex, none). | Datu | | 1 | |
| Soil Map Unit Name | | elaer Loam | , | | | 00.00. | 7121 | NWI classifica | | PEMAf | <u> </u> | |
| Are climatic/hydrolo | | | nical for the | his time of ve | ar? Yes | X | No | | | Remarks.) | | |
| Are Vegetation | , Soil | , , , , , , , , , , , , , , , , , , , | | | | ntly disturbed | | ormal Circumsta | | | X No |) |
| Are Vegetation | , Soil | | or Hydrolo | ogy | | problematic? | | ded, explain any | | | | |
| _ | | | - | | | | | | | | | |
| Summary of Find | ing - Attach | site map s | howing | sampling | point location | s, transect | , important | features, etc. | | | | |
| • | _ | - | _ | | • | | • | | | | | |
| Hydrophytic Veg | etation Presen | t? Yes | Χ | No | | 1- 4 0- | | | | | | |
| Hydric Soil Pres | | Yes | X | No | | | ampled Area a Wetland? | Yes X | | No | | |
| Wetland Hydrolo | gy Present? | Yes | X | No | | within | a wetiand? | | | | | |
| Remarks: Section | on I – Emerger | nt wetland s | urroundii | ng a pond lo | cated within an | agricultural | field. This are | a has had limit | ed crop su | ccess and has | been | |
| impounded by p | | | | | | · · | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Vogetation Use | scientific nam | oc of plant | | | | | | | | | | |
| Vegetation – Use | SOIDHUILD HAIH | ico di pialli | | Absolute | Dominant | Indicator | | | | | | |
| Tree Stratum | (Plot size): 30 |)-ft radius | | % Cover | Species? | Status | Dominance | e Test worksh | eet: | | | |
| 1. | (1 101 3126). 30 | , it iddius | | 70 COVEL | Openies : | <u>Otatus</u> | Number of F | Dominant Specie | 00 | | | |
| 2. | | | | | | | | BL, FACW or FA | | 2 | | (A) |
| 3. | | | | | | - | 1 | * | · . | | | = |
| 4. | | | | | | - | | er of Dominant oss All Strata: | | 2 | | (B) |
| 5. | | | | | | - | · . | | - | | | = |
| J | | | | | | - | | Oominant Specie | | 400 | | (A/B) |
| | | | | = | Total Cover | | That are OB | L, FACW, or FA | IC: | 100.0 | 1% | (700) |
| Sapling/Shrub S | tratum (Dlat | + aiza) · 15 ft | rodiuo | | | | Brovalono | e Index works | hoot: | | | |
| 1. | ilialuiii (Fioi | t size): 15-ft | Taulus | | | | | etal % Cover of: | neet. | Multipl | v bv: | |
| 2. | | | | | | - | OBL species | | | x 1 = | y Dy. | |
| 3. | | | | | | | FACW spec | | | x 2 = | | _ |
| 4. | | | | | | - | FAC species | | | x 3 = | | _ |
| 5. | | | | | | | FACU speci | | | x 4 = | | _ |
| J | | | | | | | UPL species | | | x 5 = | | _ |
| | | | | = | Total Cover | | Of L species | · | | | | _ |
| Herb Stratum | (Plot size): | 5-ft radius | | | | | Column To | | | (A) | | (B) |
| | oa crus-galli | | | 30 | X | FACW | Preval | | | | | |
| | dichotomiflorun | 1 | | 25 | X | FACW | | ic Vegetation | | | | |
| Eleocharis | | | | 15 | | OBL | | Rapid Test for H | | Vegetation | | |
| | pensylvanica | | | 15 | | FACW | | Dominance Test | | | | |
| | artemisiifolia | | | 10 | | FACU | | Prevalence Index | | | | |
| | rundinacea | | | 5 | | FACW | | Morphological Ad | | | rting data ir | 1 |
| 7. | | | | | | | | Remarks or on a | • | , | | |
| 8. | | | | | | | F | Problematic Hyd | rophytic Ve | getation (Expl | ain) | |
| 9. | | | | | | | 11 | الاستادات الماكم | الد - برام م | ا - ا - مام الم | | |
| 10 | | | | | | | _ | of hydric soil a | | i riyarology mu | ist be prese | ent, |
| | | | | 46- | | | | urbed or proble | matic. | | | |
| | | | | 100 | = Total Cover | | Hydrophyt | | | | | |
| Woody Vine Stra | <u>atum</u> (Plot siz | ze): 30-ft | radius | | | | Vegetation | 1 | Yes | V | No | |
| 0 | | | | | | | Present? | | - | | | |
| 9. | | | | | | - | 1 | | | | | |
| 10 | | | | | Total Causer | | 4 | | | | | |
| | | | | | = Total Cover | | | | | | | |
| Damarka, (Inclus | | | | oroto ob oot | ١ | | | | | | | |
| Remarks: (Include | de prioto numb | ers nere or | on a sep | arate sneet. |) | | | | | | | |
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| 1 | | | | | | | | | | | | |

Sampling Point: T1P5 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color Texture Remarks Silty Clay Loam 10YR 4/1 10YR 4/6 0-15 10 15-24 10YR 3/1 10YR 4/6 10 М Silty Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living roots (C3) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes _X_ No (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Landform (hillslope, terrace, etc.) Slope (%): 0 Lat: Soil Map Unit Name: Ren Are climatic/hydrologic conditions Are Vegetation , Soi Are Vegetation , Soi Summary of Finding – Attac Hydrophytic Vegetation Pres | ppeka hter, Katelyn Gutwein Pond A1.545243° aselaer Loam on the site typical for , or Hydro | this time of ye | Section Long ear? Yes significar | on: Township Local re :85.534 X ntly disturbed | elief (concave, conv 1121° NW No | c 30: T36N, R8E vex, none): C C I classification: (If no, explain | Sample Date: Sample Point: Concave Datum: WGS 8 POWHx in in Remarks.) | 10-20-2022 T1P6 |
|--|---|----------------------------|-----------------------------------|---|---|---|---|--------------------|
| Investigator(s): Ashlee Nic Landform (hillslope, terrace, etc.) Slope (%): 0 Lat: Soil Map Unit Name: Reni Are climatic/hydrologic conditions Are Vegetation , Soi Are Vegetation — , Soi Summary of Finding – Attac Hydrophytic Vegetation Pres | hter, Katelyn Gutwein Pond 1.545243° selaer Loam on the site typical for , or Hydro | this time of ye | Long ear? Yes _ significar | Local rocal | o, Range: Sec elief (concave, conv 4121° NW | c 30: T36N, R8E vex, none): C C I classification: (If no, explain | Concave Datum: WGS 8 POWHx n in Remarks.) | |
| Landform (hillslope, terrace, etc.) Slope (%): 0 Lat: Soil Map Unit Name: Ren Are climatic/hydrologic conditions Are Vegetation , Soi Are Vegetation , Soi ummary of Finding – Attac Hydrophytic Vegetation Pres | : Pond 41.545243° nselaer Loam s on the site typical for , or Hydro | this time of ye | Long ear? Yes _ significar | Local rocal | elief (concave, conv 1121° NW No | /I classification: (If no, explain | Datum: WGS 8 POWHx n in Remarks.) | 34 |
| Soil Map Unit Name: Reni Are climatic/hydrologic conditions Are Vegetation , Soi Are Vegetation , Soi Jummary of Finding – Attac Hydrophytic Vegetation Pres | nselaer Loam s on the site typical for , or Hydro , or Hydro | ology | ear? Yes | X ntly disturbed | No No | /I classification: (If no, explain | POWHx n in Remarks.) | 34 |
| Are climatic/hydrologic conditions Are Vegetation , Soi Are Vegetation , Soi Are Vegetation , Soi Are Mydrophytic Vegetation Pres | s on the site typical for , or Hydro , or Hydro | ology | significar | ntly disturbed | No | (If no, explain | n in Remarks.) | |
| re Vegetation, Soi are Vegetation, Soi ammary of Finding – Attac Hydrophytic Vegetation Pres | , or Hydro | ology | significar | ntly disturbed | | | | |
| mmary of Finding – Attac Hydrophytic Vegetation Pres | , or Hydro | | | | ? Are "Normal | Circumstances" n | | |
| mmary of Finding – Attac | | ology | naturally | | | | | X No |
| Hydrophytic Vegetation Pres | | | naturally | problematic? | (If needed, e | explain any answe | rs in Remarks.) | |
| , , , , | h site map showin | g sampling | point location | s, transect | , important featu | ures, etc. | | |
| | ent? Yes | No | X | lo the Ca | ampled Area | | | |
| Hydric Soil Present? | Yes X | No | | | impled Area a Wetland? | Yes | No | X |
| Wetland Hydrology Present? | Yes X | No | | VVILIIIII | a wellanu: | | | |
| Remarks: Pond 1 – Private p | oniu, excavateu prio | 1 to 1990 and | expanded between | een 2006 ai | iu 2010. Deimeale | d at the ordinary | mgn water mark | (Orivivi) |
| getation – Use scientific na | mes of plants. | A | Danisant | lo dia atau | T | | | |
| | 30-ft radius | Absolute <u>% Cover</u> | Dominant Species? | Indicator <u>Status</u> | Dominance Tes | st worksheet: | | |
| 1. 2. | | | | | Number of Domin That are OBL, FA | nant Species ACW or FAC: | | |
| 0 | | | | | Total Number of I Species Across A | Dominant | | |
| 5. | | | | | Percent of Domin | ant Species | | |
| | | | = Total Cover | | That are OBL, FA | CW, or FAC: | | (, |
| Sapling/Shrub Stratum (P | lot size): 15-ft radius | | | | Prevalence Ind | ex worksheet: Cover of: | Multin | oly by: |
| 2. | | | | | OBL species | Cover or. | x 1 = | лу бу. |
| 3. | | | | - | FACW species | - | x 2 = | |
| 4 | | | | | FAC species | - | x 3 = | |
| 5. | _ | | | - | FACU species | - | x 4 = | |
| J | | | | | UPL species | | x 5 = | |
| | | : | = Total Cover | | | | | |
| Herb Stratum (Plot size): | 5-ft radius | | | | Column Totals: | | (A) | |
| 1 | | | | | Prevalence | | | |
| 2. | | | | | | egetation Indicat | | |
| 3 | | | | | | Test for Hydrophy | tic Vegetation | |
| 4 | | | | | | nance Test > 50% | | |
| 5 | | | | | Preval | lence Index is ≤ 3 . | O ¹ | |
| 6 | | | | | | ological Adaptatio | | orting data in |
| 7 | | | | | | rks or on a separa | , | |
| 8 | | | | | Proble | ematic Hydrophytic | : Vegetation1 (Exp | olain) |
| 9 | | | | | | | | |
| 10 | | | | | ¹ Indicators of hy | dric soil and wetl | and hydrology m | ust be present, |
| | | | | | unless disturbed | d or problematic. | | |
| | size): 30-ft radius | | = Total Cover | | Hydrophytic Vegetation Present? | Ye | s | No X |
| 9. 10 | | | | | | | | |
| | | | = Total Cover | | | | | |

Sampling Point: T1P6 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks 10YR 5/1 Silty Clay Loam 0-24 5YR 4/3 ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): >48 No Water Table Present? Yes No Depths (inches): Saturation Present? No Depths (inches): 0 Wetland Hydrology Present? Yes _X_ No (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Project/Site: Applicant/Owner | Topeka Subdivision Town of Topek | | | | City/0 | County: | Topeka/LaGrange Sta | ite: IN | Sample Date: Sample Point: | 10-20-2022 T1P7 |
|---------------------------------|--|--------------|----------|--------------|---------------------------------------|----------------|-------------------------------------|----------------------------|--------------------------------|--------------------|
| Investigator(s): | Ashlee Nichter | | utwein | | Secti | ion: Township | | c 30: T36N, R8E | | |
| | pe, terrace, etc.): | Depress | | | | | elief (concave, conv | | Concave | |
| | | 41.545243 | | | Lana | | | | Datum: WGS 8 | 4 |
| . , , | | | 1 | | Long | 00.034 | | | | 4 |
| Soil Map Unit Na | | aer Loam | | | | | | /I classification: | PEMAf | |
| • | ologic conditions on | | | | | X | No | | in in Remarks.) | |
| Are Vegetation | , Soil | | or Hydro | logy | | ntly disturbed | | Circumstances" | | XNo |
| Are Vegetation | , Soil | | or Hydro | logy | naturally | problematic? | ? (If needed, e | explain any answe | ers in Remarks.) | |
| - | nding – Attach s | • | howing | g sampling | point location | ıs, transect | , important featu | ures, etc. | | |
| Hydrophytic V Hydric Soil Pr | egetation Present | Yes Yes | X | No No | | | mpled Area | Yes X | No | |
| , , , , , , | ology Present? | Yes | X | No | | Within | a Wetland? | 103 <u>X</u> | | |
| Remarks: Se | ction I – Emergent pond dredge mate | wetland s | urround | ing a pond I | | agricultural | field. This area has | s had limited cro | p success and ha | s been |
| egetation – Us | se scientific name | s of plant | s. | Absolute | Dominant | Indicator | | | | |
| Tree Stratum | (Plot size): 30- | ft radius | | % Cover | Species? | <u>Status</u> | Dominance Tes | st worksheet: | | |
| 1. Populus 2. | s deltoides | | | 20 | X | FAC | Number of Domir That are OBL, FA | | 4 | (. |
| 3. 4. | | | | | | | Total Number of I | Dominant | 4 | (|
| 5. | | | | | | | Percent of Domin | ant Species | | _ |
| | | | | | = Total Cover | | That are OBL, FA | CW, or FAC: | 100. | 0% (A |
| Sapling/Shrub | Stratum (Plot s | size): 15-ft | radius | | | | Prevalence Ind | ex worksheet: Cover of: | Multip | ly by: |
| 2. | | | | | | | - | Cover or. | | ly by. |
| | | | | | | | OBL species | | x 1 = | |
| 3. | | | | | | | FACW species | | x 2 = | |
| 4. | | | | | | | FAC species | | x 3 = | |
| 5. | | | | | | | FACU species | | x 4 = | |
| | | | | - | · · | | UPL species | - | x 5 = | |
| | | | | | = Total Cover | | Of L species | | ^ | |
| Herb Stratum | (Plot size): | 5-ft radius | | | | | Column Totals: | | (A) | |
| 1. Phalaris | s arundinacea | | | 30 | X | FACW | Prevalence | Index = B/A = | | |
| | m dichotomiflorum | | | 25 | X | FACW | Hydrophytic Ve | | tore. | |
| | | | | | | FACW | | • | | |
| | chloa crus-galli | | | 20 | X | | | Test for Hydroph | | |
| | sia trifida | | | 10 | <u> </u> | FAC | | nance Test > 50% | | |
| Persica | ria pensylvanica | | | 10 | | FACW | Preval | lence Index is ≤ 3 | .0 ¹ | |
| 6. Ambros | sia artemisiifolia | | | 5 | · · · · · · · · · · · · · · · · · · · | FACU | Morph | ological Adaptation | ons ¹ (Provide supp | orting data in |
| 7. | | | | | | | | rks or on a separa | | 3 |
| 8. | | | | - | | | 4 | • | c Vegetation¹ (Exp | lain) |
| | | | | | · —— | | 1 10016 | anado riyaropnyu | c vegetation (Exp | iaiii) |
| 9. | | | | | | | 4 | | | |
| 10 | | | | | | | 'Indicators of hy | dric soil and wet | land hydrology m | ust be present, |
| | | | | | | | unless disturbed | d or problematic. | | |
| Woody Vine S | Stratum (Plot size | e): 30-ft | radius | 100 | _ = Total Cover | | Hydrophytic Vegetation | | es v | No |
| 9. | | | | | | | Present? | 1, | χ | |
| 10 | | | | | = Total Cover | | | | | |
| D 1 (1 | | | | | _ | | | | | |
| Remarks: (Inc | clude photo numbe | rs nere or | on a se | parate snee | t.) | | | | | |
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Sampling Point: T1P7 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color Texture Remarks Silty Clay Loam 10YR 4/1 10YR 5/6 0-10 10 10-24 10YR 3/1 10YR 4/6 10 М Silty Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** Χ No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living roots (C3) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes _X_ No (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| e with the control of | x No | (A) (B) (A/B) |
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| | x 4 = x 5 = (A) S: Vegetation (Provide supheet) getation¹ (Ex | x 4 = x 5 = (A) Comparison (Provide supporting data in heet) getation (Explain) I hydrology must be present |

Sampling Point: T1P8 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks 0-24 10YR 4/2 10YR 4/6 Silty Clay Loam ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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| parate sheet) |
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| hytic Vegetation ¹ (Explain) |
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| wetland hydrology must be presen |
| tic. |
| Yes No |
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| d s o |

Sampling Point: T1P9 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 Silty Clay Loam 10YR 3/3 0 - 1414-24 10YR 5/3 10YR 4/6 20 М Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Project/Site: To | peka Subdivision | | | City/0 | County: | Горека/LaGra | | | Sample Date | | 2022 |
|-----------------------|---|------------------------------|---------------|------------------|---------------------|-------------------------------------|-----------------------------------|-----------------------|----------------------------|------------------|------|
| Applicant/Owner: | Town of Topeka | | | | | | | IN | Sample Poin | it: <u>T1P10</u> | |
| nvestigator(s): | Ashlee Nichter, Ka | | | Section | on: Township | | Sec 30: T36 | | | | |
| andform (hillslope | · · · · · · · · · · · · · · · · · · · | Plain | | | | | convex, none | | ne | 2.04 | |
| ope (%): 0 | | 545243° | | Long: | : <u>-85.534</u> | 1121° | NIVA/I -1:£: | | atum: WGS | 5 84 | |
| oil Map Unit Name | e: <u>vvawasee Fi</u> egic conditions on the | ne Sandy Loam | | | V | No | NWI classific | - | None | | |
| re Vegetation | • | | • | | X ntly disturbed | No Aro "N | ormal Circums | | in Remarks.) | es X N | 10 |
| re Vegetation | , Soil , Soil | , or Hydrolo , or Hydrolo | ogy | | problematic? | | ded, explain ar | | | | ۰ _ |
| _ | ing – Attach site r | | | | • | · | | • | iii itemaiks.) | | |
| | etation Present? | Yes | No | Х | Is the Sa | mpled Area | | | | | |
| Hydric Soil Pres | | Yes | No | X | | Wetland? | Yes _ | | No | X | |
| Wetland Hydrolo | | Yes | No | X | | | | | | | |
| rtemarks. Opiai | nd agricultural field p | lanca with 30 | , beans and n | arvested iii 202 | | | | | | | |
| getation – Use | scientific names of | plants. | Absolute | Dominant | Indicator | | | | | | |
| Tree Stratum 1. | (Plot size): 30-ft rad | suit | % Cover | Species? | Status | | e Test works | | | | |
| 2. | | | | | | That are OE | Dominant Spec BL, FACW or F. | AC: | | | _ (|
| 4. | | | | | | | er of Dominant oss All Strata: | | - | | _ (|
| 5. | | | | Total Cover | | | Dominant Spec SL, FACW, or F | | | | (A |
| Sapling/Shrub S 1. | tratum (Plot size) | : 15-ft radius | | | | Prevalence | e Index work otal % Cover of | sheet: | | Itiply by: | |
| 2 | | | | | | OBL specie FACW spec | | | _ x 1 = x 2 = | | _ |
| 4. | | | | | | FAC specie | | | x 3 = | | _ |
| 5 | | | | | | FACU speci | | | _ x 4 = | | |
| Herb Stratum | (Plot size): 5-ft | radius | = | Total Cover | | UPL species Column To | | | _ x 5 = | | _ , |
| 1. | (1 101 3126). | adius | | | | | | = B/A = | _ (^) | | — ' |
| 2. | | | | | | Hydrophyt | ic Vegetation | n Indicato | rs: | | |
| 3. | | | | | | F | Rapid Test for | Hydrophyti | c Vegetation | | |
| 4. | | | | | | | Dominance Tes | st > 50% | | | |
| 5. | | | | | | F | Prevalence Ind | $ex is \le 3.0^\circ$ | 1 | | |
| 6 | | | | | | | Norphological A | | | pporting data i | n |
| 7. | | | | | | F | Remarks or on | a separate | sheet) | | |
| 8. | | | | | | F | Problematic Hy | drophytic \ | /egetation ¹ (E | xplain) | |
| 9. | | | | | | | | | | | |
| 10 | | | | | | ¹ Indicators | of hydric soil | and wetla | nd hydrology | must be pres | ent, |
| | | | | | | unless dist | urbed or prob | lematic. | | | |
| Woody Vine Stra | atum (Plot size): | 30-ft radius | | = Total Cover | | Hydrophyt Vegetatior Present? | | Yes | | No x | , |
| 9. 10 | | | | | | | | | | | |
| | | | | = Total Cover | | | | | | | |
| Remarks: (Include | de photo numbers he indicator present is i | | | | harvested | | | | | | |

Sampling Point: T1P10 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 Silty Clay Loam 10YR 3/3 0-12 12-24 10YR 5/3 10YR 4/6 15 М Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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Sampling Point: T1P11 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 10YR 3/3 Sandy Loam 0-12 12-24 10YR 5/2 10YR 4/6 10 М Sandy Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Topeka Subdivision | Section Long m this time of year? Yes significate sology naturally | ion: Township Local re | elief (concave, convex, none) 4121° | N, R8E : Concave Datum: W ation: None o, explain in Remarks | 71P12 7GS 84 |
|---|--|---|--|---|--------------------|
| Landform (hill/slope, terrace, etc.): Plain Slope (%): 0 Lat: 41.545243° Soil Map Unit Name: Wawasee Fine Sandy Loar Are climatic/hydrologic conditions on the site typical for Are Vegetation , Soil , or Hydro Are Vegetation , Soil , or Hydro | this time of year? Yes significations naturally | Local rocal | elief (concave, convex, none) 4121° | : Concave Datum: W ation: None o, explain in Remarks | s.) |
| Slope (%): 0 Lat: 41.545243° Soil Map Unit Name: Wawasee Fine Sandy Loar Are climatic/hydrologic conditions on the site typical for Are Vegetation , Soil , or Hydro | this time of year? Yessignifical naturally | z: -85.534 X ntly disturbed | 4121° NWI classific No (If no (12) Are "Normal Circumst | Datum: Wation: None o, explain in Remarks | s.) |
| Soil Map Unit Name: | this time of year? Yessignifical naturally | X ntly disturbed | NWI classific No (If no ? Are "Normal Circumst | ation: None o, explain in Remarks | s.) |
| Are climatic/hydrologic conditions on the site typical for Are Vegetation, Soil, or Hydro, Soil, or Hydro | this time of year? Yes _ ology significal ology naturally | ntly disturbed | No (If no ?) Are "Normal Circumst | o, explain in Remarks | , |
| Are Vegetation, Soil, or Hydro | ology signification significat | ntly disturbed | ? Are "Normal Circumst | | , |
| Are Vegetation , Soil , or Hydro | ology naturally | | | ances" present? | |
| <u> </u> | <u></u> - | problematic: | e dif needed, exbiain an | | Yes X No |
| animary or i maing Tataon site map snowin | a sampling point location | ns transect | | • | (S.) |
| Hydrophytic Vegetation Present? Yes | No X | 15, transcot | , important reatures, etc | • | |
| Hydric Soil Present? Yes | No X | | ampled Area A Wetland? Yes — | No | X |
| Wetland Hydrology Present? | No X | Within | a Wetland? | | |
| Remarks: Upland agricultural field planted with so | bybeans and harvested in 20 | 22 | | | |
| egetation – Use scientific names of plants. | Absolute Dominant | Indicator | T | | |
| <u>Tree Stratum</u> (Plot size): 30-ft radius 1. | % Cover Species? | Status | Dominance Test worksh Number of Dominant Speci | | |
| 2. | | | That are OBL, FACW or FA | | |
| 5. | | | Total Number of Dominant Species Across All Strata: | | |
| 5. | = Total Cover | | Percent of Dominant Speci- That are OBL, FACW, or FA | | (|
| Sapling/Shrub Stratum (Plot size): 15-ft radius | | | Prevalence Index works | sheet: | |
| 1. | | | Total % Cover of: | | Multiply by: |
| 2. | | | OBL species | x 1 = | |
| 3. | | | FACW species | x 2 = | |
| 4. | | | FAC species | x 3 = | |
| 5 | | | FACU species | x 4 = | |
| | = Total Cover | | UPL species | x 5 = | |
| Herb Stratum (Plot size): 5-ft radius 1. | | | Column Totals: Prevalence Index = | (A) | |
| 2. | | | Hydrophytic Vegetation | | |
| 3. | | | | lydrophytic Vegetatio | on |
| 4. | | | Dominance Tes | | |
| 5. | | | Prevalence Inde | ex is $\le 3.0^1$ | |
| 6. | | | Morphological A | daptations1 (Provide | supporting data in |
| 7. | | | Remarks or on a | a separate sheet) | 11 0 |
| 8. | | | Problematic Hyd | drophytic Vegetation ¹ | (Explain) |
| 9. | | | | | |
| 10 | | _ | ¹ Indicators of hydric soil a | and wetland hydrolo | gy must be present |
| | | | unless disturbed or proble | ematic. | |
| Woody Vine Stratum (Plot size): 30-ft radius | = Total Cover | | Hydrophytic Vegetation Present? | Yes | No X |
| 9. | | | 4 | | |
| 10 | = Total Cover | | - | | |

| escription: Describe to the de | | Redox Features | | | | |
|--|---|---|--|--|---|---|
| Color (moist) % 10YR 3/3 | Color | %Type ¹ | Loc ² | Texture Sandy Clay Loam | | Remarks |
| 10113/3 | | | <u> </u> | Sandy Clay Loani | | |
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| | | | | | | |
| Concentration, D=Depletion, RM: | =Reduced Matrix | , CS=Covered or Coated S | and Grains. ² Loca | tion: PL=Pore Lining, | M=Matrix | |
| I Indicators: | | | | ndicators for Proble | • | |
| Histosol (A1) | | Sandy Gleyed ma | | | airie Redox (A16) | |
| Histic Epipedon (A2) Black Histic (A3) | | Sandy Redox (S5 Stripped Matrix (S | · — | Dark Surf | ace (57) ganese Masses (I | E12) |
| Hydrogen Sulfide (A4) | | Loamy Mucky Mir | _ | | llow Dark Surface | |
| Stratified Layers (A5) | | Loamy Gleyed Ma | | | plain in Remarks | |
| 2 cm Muck (A10) | | Stripped Matrix (S Loamy Mucky Mir Loamy Gleyed Ma Depleted matrix (F Redox Dark Surfa | | | | , |
| Depleted Below Dark Surface | e (A11) | Redox Dark Surfa | , | | s of hydrophytic v | |
| Thick Dark Surface (A12) | | Depleted Dark Su | rface (F7) | wetland h | ydrology must be | e present, |
| Sandy Mucky Mineral (S1) | | Redox Depression | ns (F8) | unless dis | sturbed or probler | matic. |
| 5 cm Mucky Peat or Peat (S3 | 3) | | | | | |
| Layer (if observed): | | | | | | |
| | | | | | | |
| | | | Hydric Soil | Present? | Yes | No |
| | | | | | | |
| | | | | | | |
| OGY | | | | | | |
| OGY ydrology Indicators: licators (minimum of one is requi | red; checked all | that apply) | | Seconda | ary Indicators (mini | imum of two r |
| ydrology Indicators: licators (minimum of one is requi Surface water (A1) | red; checked all | Water-Stained Leaves | s (B9) | Sur | face Soil Cracks (I | B6) |
| ydrology Indicators: icators (minimum of one is requi Surface water (A1) digh Water Table (A2) | red; checked all | Water-Stained Leaves Aquatic Fauna (B13) | ` , | Sur Dra | face Soil Cracks (I inage patterns (B1 | B6) 10) |
| ydrology Indicators: icators (minimum of one is requi Surface water (A1) digh Water Table (A2) Saturation (A3) | red; checked all : - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I | B14) | Sur — Sur — Dra — Dry | face Soil Cracks (I inage patterns (B1 -Season Water tal | B6) 10) ble (C2) |
| ydrology Indicators: licators (minimum of one is requi Surface water (A1) High Water Table (A2) Saturation (A3) Vater marks (B1) | red; checked all : - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd | B14) or (C1) | Sur Dra Dry Cra | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 | B6) 10) ble (C2)) |
| ydrology Indicators: icators (minimum of one is requi ßurface water (A1) digh Water Table (A2) Saturation (A3) Vater marks (B1) Sediment Deposits (B2) | red; checked all : - - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere | B14) or (C1) es on Living roots (C | Sur Dra Dra Dry Cra Sat | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 uration Visible on A | B6) 10) ble (C2)) Aerial Image |
| ydrology Indicators: icators (minimum of one is requi burface water (A1) digh Water Table (A2) baturation (A3) Vater marks (B1) bediment Deposits (B2) orift Deposits (B3) | red; checked all - - - - - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd | B14) or (C1) es on Living roots (Ci | Sur Dra Dra Dry Cra Sat Sat Stu | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 | B6) 10) ble (C2)) Aerial Image Plants (D1) |
| ydrology Indicators: icators (minimum of one is requi Burface water (A1) digh Water Table (A2) Baturation (A3) Vater marks (B1) Bediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Fron Deposits (B5) | - - - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C | B14) or (C1) es on Living roots (Ci I Iron (C4) n in Tilled Soils (C6) | Sur Dra Dra Dry Cra Sat Sat Sat Geo | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 uration Visible on nted or Stressed F | B6) 10) ble (C2)) Aerial Image Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisitrace water (A1) ligh Water Table (A2) iaturation (A3) Vater marks (B1) iediment Deposits (B2) irift Deposits (B3) logal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Imag | | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odc Oxidized Rhizosphere Presence of Reduced Recent Iron Reductio Thin Muck Surface (C Gauge or Well Data (I | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) | Sur Dra Dra Dry Cra Sat Sat Sat Geo | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 uration Visible on nted or Stressed F omorphic Position | B6) 10) ble (C2)) Aerial Image Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisurface water (A1) digh Water Table (A2) saturation (A3) Vater marks (B1) Sediment Deposits (B2) Orift Deposits (B3) dlgal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Imag | | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) | Sur Dra Dra Dry Cra Sat Sat Sat Geo | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 uration Visible on nted or Stressed F omorphic Position | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requi iurface water (A1) idigh Water Table (A2) saturation (A3) Vater marks (B1) sediment Deposits (B2) brift Deposits (B3) algal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Imag iparsely Vegetated Concave Sui rvations: | ery (B7) | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) | Sur Dra Dra Dry Cra Sat Sat Sat Geo | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 uration Visible on nted or Stressed F omorphic Position | B6) 10) ble (C2)) Aerial Image Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisitrace water (A1) ligh Water Table (A2) icaturation (A3) Vater marks (B1) idediment Deposits (B2) brift Deposits (B3) idgal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Imagisparsely Vegetated Concave Suitrations: ter Present? Yes | ery (B7) | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) (77) D9) narks) | Sur Dra Dra Dry Cra Sat Sat Sat Geo | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 uration Visible on nted or Stressed F omorphic Position | B6) 10) ble (C2)) Aerial Image Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisurface water (A1) digh Water Table (A2) dighter marks (B1) dediment Deposits (B2) drift Deposits (B3) digal Mat or Crust (B4) ron Deposits (B5) rundation Visible on Aerial Imag departs y Vegetated Concave Suiter Present? Page 18 one is requisited to the concave of t | ery (B7) | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) c7) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2) Aerial Imagei Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisitators (minimum of one is requisitators (minimum of one is requisitators (minimum of one is requisitators) idigh Water Table (A2) idigh Water Table (A2 | ery (B7) | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) (77) D9) narks) | Sur Dra Dra Dry Cra Sat Sat Sat Geo | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Image Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisurface water (A1) idigh Water Table (A2) saturation (A3) Vater marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Idgal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Image sparsely Vegetated Concave Survations: iter Present? Persent? Persent? Persent? Yes apillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2) Aerial Imagei Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisurface water (A1) idigh Water Table (A2) saturation (A3) Vater marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Idgal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Image sparsely Vegetated Concave Survations: iter Present? Persent? Persent? Persent? Yes apillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imagei Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisurface water (A1) idigh Water Table (A2) saturation (A3) Vater marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Idgal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Image sparsely Vegetated Concave Survations: iter Present? Persent? Persent? Persent? Yes apillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
| ydrology Indicators: licators (minimum of one is requi Surface water (A1) digh Water Table (A2) Saturation (A3) Vater marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Algal Mat or Crust (B4) ron Deposits (B5) nundation Visible on Aerial Imag Sparsely Vegetated Concave Sur Intervations: Seter Present? Yes Present? Yes | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
| ydrology Indicators: icators (minimum of one is requisurface water (A1) digh Water Table (A2) Saturation (A3) Vater marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) ron Deposits (B5) nundation Visible on Aerial Imag Sparsely Vegetated Concave Survations: atter Present? Present? Yes Present? Yes apillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
| rdrology Indicators: icators (minimum of one is requisurface water (A1) idigh Water Table (A2) saturation (A3) Vater marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Idgal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Image sparsely Vegetated Concave Survations: iter Present? Persent? Persent? Persent? Yes apillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
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| rdrology Indicators: icators (minimum of one is requi iurface water (A1) ligh Water Table (A2) auturation (A3) Vater marks (B1) dediment Deposits (B2) vrift Deposits (B3) ligal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Imag parsely Vegetated Concave Sur rvations: ter Present? Present? Present? Present? pillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
| rotology Indicators: cators (minimum of one is requi urface water (A1) igh Water Table (A2) aturation (A3) //ater marks (B1) ediment Deposits (B2) rrift Deposits (B3) igal Mat or Crust (B4) on Deposits (B5) nundation Visible on Aerial Imag parsely Vegetated Concave Sur rvations: ter Present? Present? Present? Present? Present? Present? Presepillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Imager Plants (D1) (D2) |
| Arology Indicators: ators (minimum of one is requirface water (A1) gh Water Table (A2) turation (A3) ater marks (B1) diment Deposits (B2) iff Deposits (B3) gal Mat or Crust (B4) n Deposits (B5) undation Visible on Aerial Imag arsely Vegetated Concave Sur vations: er Present? Yes Present? Yes esent? Yes eillary fringe) | ery (B7) frace (B8) No No | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (I Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Gauge or Well Data (I Other (Explain in Rem Depths (inches): Depths (inches): | B14) or (C1) es on Living roots (C: I Iron (C4) n in Tilled Soils (C6) 77) D9) narks) | Sur Dra Dra Dry Cra Sature Sture Sture FAC | face Soil Cracks (I inage patterns (B1 -Season Water tal yfish Burrows (C8 urration Visible on nted or Stressed F omorphic Position C-Neutral Test (D5 | B6) 10) ble (C2)) Aerial Image Plants (D1) (D2) |

| | unty: Topeka/LaGrange State: IN : Township, Range: Sec 30: T36N, R8E Local relief (concave, convex, none): | Sample Date: 10-20-2022 Sample Point: T2P1 |
|----------------------------|--|---|
| | | |
| Long | Local relief (concave, convex, none): | |
| Long | | None |
| | -85.534121° | Datum: WGS 84 |
| <u> </u> | NWI classification: | |
| his time of year? Yes | | lain in Remarks.) |
| | | |
| | | wers in Remarks.) |
| No X | Is the Sampled Area Yes | No X |
| | within a wetland? | |
| ybeans and harvested in 20 | | |
| Absolute Dominant | ndicator Dominance Test worksheet | |
| % Cover Species? | Status Dominance Test worksneet: | |
| | | (|
| | · · | - |
| | Species Across All Strata: | (|
| = Total Cover | Percent of Dominant Species That are OBL. FACW. or FAC: | (A |
| | Prevalence Index worksheet: | : |
| | Total % Cover of: | Multiply by: |
| | | x 1 = |
| | | x 2 = |
| | | x 3 = |
| | | x 4 = |
| = Total Cover | UPL species | x 5 = |
| | Column Totals: | (A) |
| | Prevalence Index = B/A = | |
| | Hydrophytic Vegetation Indic | cators: |
| | Rapid Test for Hydrop | phytic Vegetation |
| | Dominance Test > 50° | % |
| | Prevalence Index is ≤ | 3.0 ¹ |
| | | tions ¹ (Provide supporting data in |
| | Remarks or on a sepa | arate sheet) |
| | Problematic Hydrophy | tic Vegetation¹ (Explain) |
| | ¹ Indicators of hydric soil and w | etland hydrology must be present, |
| | unless disturbed or problemation | C. |
| = Total Cover | Hydrophytic Vegetation Present? | Yes No X |
| | | |
| = Total Cover | | |
| | naturally property of the prop | Sampling point locations, transect, important features, etc. No |

Sampling Point: T2P1 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 Silty Clay Loam 10YR 3/3 0-10 10-24 10YR 4/2 10YR 4/6 М Silty Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** Χ No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| No No No | Long: ar? Yes significar naturally point location X X | X Xtitly disturbed' problematic? s, transect Is the Sa | Polief (concave, convex, notes) Notes Are "Normal Circe (If needed, explate) , important features | T36N, R8E Nor | None WGS 84 None Remarks.) sent? Yes | T2P2 |
|-------------------|--|---|--|--|---|--|
| mpling No No No | Long: ar? Yes significar naturally point location X X | Local re- -85.534 X ntly disturbed' problematic? s, transect | Pelief (concave, convex, null 21° NWI class No Are "Normal Circ (If needed, explaures) | one): Nor Dates sification: (If no, explain ir umstances" presin any answers | None WGS 84 None Remarks.) sent? Yes | |
| mpling No No No | yes significar naturally point location | X Xtitly disturbed' problematic? s, transect Is the Sa | No No Are "Normal Circ (If needed, expla | Dat ssification: (If no, explain ir umstances" pre- in any answers | None WGS 84 None Remarks.) sent? Yes | |
| mpling No No No | yes significar naturally point location | X ntly disturbed' problematic? s, transect | No 2 Are "Normal Circ (If needed, expla , important features | ssification: (If no, explain ir umstances" presin any answers | None Remarks.) sent? Yes | |
| mpling No No No | significar naturally point location X X | ntly disturbed' problematic? s, transect | No ? Are "Normal Circ (If needed, expla , important features | (If no, explain ir umstances" pres in any answers | n Remarks.) sent? Yes | X No |
| mpling No No No | significar naturally point location X X | ntly disturbed' problematic? s, transect | ? Are "Normal Circ (If needed, expla , important features | umstances" presin any answers | sent? Yes | _X_ No |
| No No No | point location X X | s, transect Is the Sa | (If needed, expla | in any answers i | | <u>X</u> N0 |
| No No No | point location X X | s, transect | , important features | | iii Keiliaiks. | |
| No No | X | | ampled Area | | | |
| No | | | | | No | X |
| | | within a | a Wetland? | | 110 | |
| | e area prior to 2 | 2005. | | | | |
| e coluto | Dominant | Indicator | | | | |
| Cover | Species? | Status | | | | |
| | | | | | 1 | |
| | | | 1 | | | |
| | | | | | 2 | |
| = | Total Cover | | | | 50.0% | % (|
| | | | | | Maritima | , b |
| | | - | | ei Oi. | | , by. |
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| | | - | · | | | |
| = | Total Cover | | · | | | |
| 00 | V | EACW/ | | -l D/A | _ (A) | |
| | X | | | | | |
| 40 | | FACO | | | | |
| | | | | | vegetation | |
| | | - | | | | |
| | | - | | | 1 (Danida | |
| | | | | | | rting data in |
| | | - | | • | , | nin) |
| | | | 1 TODIETTIALI | o i iyuropiiyiic v | egetation (Expla |) |
| | | | 1Indicators of hydric | neltow bae line | d hydrology mu | et ha nracant |
| | | | , | | a riyarology illa | or be present |
| 00 | Total Cover | | | robiematic. | | |
| 00 | = Total Cover | | Vegetation | Yes | | No X |
| | | | | | | |
| | = Total Cover | | | | | |
| | = 60 40 00 | = Total Cover | = Total Cover | Species? Status Number of Dominants That are OBL, FACW Total Number of Dominant Species Across All Str Percent of Dominant Strata are OBL, FACW, Prevalence Index w Total % Cove OBL species FACW species FACW species FACW species FACU species FACU species Column Totals: Prevalence Index w Prevalence Index w Total % Cove OBL species FACW species FACW species FACW species FACW species FACW species Output Species O | Cover Species? Status Dominance Test Worksheet: Number of Dominant Species That are OBL, FACW or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That are OBL, FACW, or FAC: Percent of Dominant Species That are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FAC Species FAC species FAC Species FAC Species FAC Species <td> Species Status Dominance Test worksheet: </td> | Species Status Dominance Test worksheet: |

Sampling Point: T2P2 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color Texture Remarks Silty Clay Loam 10YR 4/2 10YR 4/6 0-11 11-24 10YR 5/1 10YR 5/6 М Silty Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Long: Yes > significan naturally | X Antly disturbed' problematic? s, transect Is the Sa Within a | elief (concave, convex, none): 121° NWI classification: No (If no, explain | ers in Remarks.) | |
|--|--|--|---|-----------------------------|
| Pint locations X X X X Novested in 202 | Local re85.534 X ntly disturbed' problematic? s, transect Is the Sa Within a | elief (concave, convex, none): 121° NO | Datum: WGS 84 None ain in Remarks.) present? Yes ers in Remarks.) | <u>X</u> No _ |
| ? Yes > significan naturally oint locations X X X X X Invested in 202 | X Xntly disturbed' problematic? s, transect Is the Sa Within a | NWI classification: No (If no, explate) Provided Are "Normal Circumstances" (If needed, explain any answay important features, etc. Mare "Normal Circumstances" (If needed, explain any answay important features, etc. Mare "Yes | Datum: WGS 84 None ain in Remarks.) present? Yes ers in Remarks.) | <u>X</u> No _ |
| ? Yes > significan naturally oint locations X X X X X Invested in 202 | X httly disturbed' problematic? s, transect Is the Sa Within a | NWI classification: No (If no, expla ? Are "Normal Circumstances" (If needed, explain any answ , important features, etc. mpled Area a Wetland? Yes | None in In Remarks.) present? Yes ers in Remarks.) | <u>X</u> No _ |
| significan naturally point locations X X X X Invested in 202 | ntly disturbed' problematic? s, transect Is the Sa Within a | No (If no, expla? Are "Normal Circumstances" (If needed, explain any answ important features, etc. mpled Area Yes | ain in Remarks.) present? Yes ers in Remarks.) | |
| significan naturally point locations X X X X Invested in 202 | ntly disturbed' problematic? s, transect Is the Sa Within a | Are "Normal Circumstances" (If needed, explain any answ important features, etc. mpled Area wetland? Yes | present? Yes ers in Remarks.) | |
| x X X X X Invested in 202 | Is the Sa Within a | mpled Area Yes | | X |
| X X X rvested in 202 | Is the Sa Within a | mpled Area Yes | No _ | X |
| X X rvested in 202 | Within a | ı Wetland? | No _ | X |
| X rvested in 202 | Within a | ı Wetland? | No _ | X |
| rvested in 202 Dominant | 22 Indicator | | | |
| Dominant | Indicator | Dominance Test worksheet: | | |
| | | Dominance Test worksheet: | | |
| | | Dominance Test worksheet: | | |
| | | | | |
| | | Number of Dominant Species That are OBL, FACW or FAC: | | |
| | | Total Number of Dominant Species Across All Strata: | | (E |
| Total Cover | | Percent of Dominant Species That are OBL, FACW, or FAC: | | (A |
| olai Covei | | , | | |
| | | | Multiply | , by: |
| | - | | | by. |
| | | · | | |
| | - | FAC species | x 3 = | |
| | | FACU species | x 4 = | |
| Total Cover | | UPL species | x 5 = | |
| olai Govei | | Column Totals: | (A) | (|
| | | | | |
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| | | | | |
| | - | | | |
| | | | | ting data in |
| | - | | | g data |
| | | Problematic Hydrophyt | ic Vegetation1 (Expla | ıin) |
| | | | | |
| · | | ¹ Indicators of hydric soil and we | tland hydrology mu | st be present, |
| | | unless disturbed or problematic | | |
| Total Cover | | Hydrophytic Vegetation Present? | 'es | No X |
| | - | | | |
| Total Cover | | | | |
| | Total Cover | Total Cover | Prevalence Index worksheet: | Prevalence Index worksheet: |

Sampling Point: T2P3 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 10YR 3/3 Sandy Clay Loam 0-12 12-24 10YR 5/4 10YR 5/6 М Sandy Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Long this time of year? Yes ogy signification naturally | | None None | |
|---|---|---|--------|
| Long this time of year? Yes ogy signification naturally | Local rog: -85.534 X antly disturbed | None None | NI- |
| this time of year? Yes ogy significations | g: -85.534 X antly disturbed | 121° | NI- |
| this time of year? Yes ogy significations | X antly disturbed | NWI classification: None None No | NI- |
| this time of year? Yes ogy signification ogy naturally | antly disturbed | No (If no, explain in Remarks.) ? Are "Normal Circumstances" present? Yes X | NI- |
| ogy significa ogy naturally | antly disturbed | ? Are "Normal Circumstances" present? Yes X | N |
| ogy naturally | | | |
| | y problematic: | (II HEEGEG, EXPIAIN ANY ANSWERS IN INCINAINS.) | NO _ |
| g sampling point location | ns, transect | , important features, etc. | |
| No X | Is the Sa | mpled Area | |
| | | | |
| | | | |
| , | | | |
| Absolute Dominant | Indicator | | |
| % Cover Species? | Status | | |
| | | That are OBL, FACW or FAC: | (|
| | | Total Number of Dominant Species Across All Strata: | (|
| - Total Cover | | Percent of Dominant Species | (A |
| = rotal cover | | · | |
| | | Total % Cover of: Multiply by: | |
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| = Total Cover | | · | |
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| | | ' ' | |
| | | Problematic Hydrophytic Vegetation: (Explain) | |
| | | The disease of hydric coil and westend hydrology recent be mus | |
| | | , | eseni, |
| | | | |
| = Total Cover | r | Vegetation Ves No. | X |
| | | | Λ |
| = Total Cover | r ——— | | |
| 3 | No X No X ybeans and harvested in 20 Absolute Dominant % Cover Species? = Total Cover = Total Cover = Total Cover | No X Within a Within a ybeans and harvested in 2022 Absolute Dominant Status — = Total Cover | No |

Sampling Point: T2P4 SOIL Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Color Texture Remarks % 100 % Type Loc2 10YR 3/3 Sandy Clay Loam 0-8 8-24 10YR 5/4 10YR 4/6 10 М Sandy Clay Loam ² Location: PL=Pore Lining, M=Matrix ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: **Hydric Soil Indicators:** Histosol (A1) Sandy Gleyed matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7) Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Very Shallow Dark Surface (TF12) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) 2 cm Muck (A10) Depleted matrix (F3) Depleted Below Dark Surface (A11) ³Indicators of hydrophytic vegetation and Redox Dark Surface (F6) wetland hydrology must be present, Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (in.) **Hydric Soil Present?** No Χ Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; checked all that apply) Secondary Indicators (minimum of two required) Water-Stained Leaves (B9) Surface water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Oxidized Rhizospheres on Living roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Depths (inches): No Water Table Present? Depths (inches): Yes No >24 Saturation Present? No Depths (inches): >24 Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| Project/Site: Topeka Subdivision | | City/County: | Topeka/LaGrange | Sai | mple Date: | 10-20-2022 |
|---|-----------------------|--|--|--------------------------------|------------------|-------------|
| Applicant/Owner: Town of Topeka | | | State: | | | T2P5 |
| Investigator(s): Ashlee Nichter, Katelyn Gutwei | n | Section: Township | | T36N, R8E | | |
| Landform (hillslope, terrace, etc.): Plain | | | elief (concave, convex, no | , | | |
| Slope (%): 0 Lat: 41.545243° | | Long:85.53 | | Datum | | |
| Soil Map Unit Name: Wawasee Fine Sandy Lo | | , , | | sification: No | | |
| Are climatic/hydrologic conditions on the site typical fo | | es X | | (If no, explain in Re | | V N- |
| Are Vegetation , Soil , or Hyd | rologys | significantly disturbed naturally problematic | | | | <u>X</u> No |
| Are vegetation , Soil , or Hyd | II | laturally problematic | (ii fieeded, explair | i ally allswels ill r | temarks.) | |
| Summary of Finding – Attach site map show | ing sampling point lo | cations, transec | t, important features, | etc. | | |
| Hydrophytic Vegetation Present? Yes | No X | ls the S | ampled Area | | | |
| Hydric Soil Present? Yes | No X | | a Wetland? | | No <u>X</u> | ΄. |
| Wetland Hydrology Present? Yes | No X | Within | a Wellana. | | | |
| Remarks: Upland hill in an agricultural field | | | | | | |
| egetation – Use scientific names of plants. | | | | | | |
| <u>Tree Stratum</u> (Plot size): 30-ft radius | | minant Indicator ecies? Status | Dominance Test wor | rksheet: | | |
| 1 | | | Number of Dominant S That are OBL, FACW o | | 1 | (A) |
| 3. 4. | | | Total Number of Domin Species Across All Stra | | 2 | (B) |
| 5. | = Total C | ``ovor | Percent of Dominant Sp | | 50.0% | (A/E |
| | | ovei | That are OBL, FACW, o | | 50.0% | |
| Sapling/Shrub Stratum (Plot size): 15-ft radius 1. | i | | Prevalence Index wo Total % Cove | | Multiply by | v: |
| 2. | | | OBL species | | 1= | <u> </u> |
| 3. | | | FACW species | x | 2 = | |
| 4. | | | FAC species | x | 3 = | |
| 5. | | | FACU species | x | 4 = | |
| | = Total C | 'over | UPL species | x | 5 = | |
| Herb Stratum (Plot size): 5-ft radius | = Total C | ovei | Column Totals: | | A) | (B) |
| Sorghum halepense | 40 | (FACU | | ex = B/A = | | |
| Setaria pumila | 30 | <u> </u> | Hydrophytic Vegetat | | | |
| 3. Abutilon theophrasti | 15 | FACU | | or Hydrophytic Ve | netation | |
| 4. Eleusine indica | 15 | FACU | Dominance | | getation | |
| 5. Panicum dichotomiflorum | 10 | FACW | | Index is ≤ 3.0 ¹ | | |
| 6. | | | | al Adaptations ¹ (P | rovide supportin | na data in |
| 7. | | | | on a separate she | | g data iii |
| 8. | | | | Hydrophytic Vege | | ١ |
| 9. | | | | .,, | (=) | |
| 10 | | | ¹ Indicators of hydric s | oil and wetland h | vdrology must | be present. |
| | | | unless disturbed or pr | | , | , , |
| Woody Vine Stratum (Plot size): 30-ft radius | = Total | Cover | Hydrophytic Vegetation | Yes | | No v |
| 9 | | | Present? | _ | | <u> </u> |
| 10 | = Total | Cover | - | | | |
| Remarks: (Include photo numbers here or on a | separate sheet.) | | | | | |
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| Matrix | | Redox Features | 1 2 | - . | | |
|--|---|---|--|--|---|---|
| Color (moist) % 10YR 3/3 | Color | %Type ¹ | Loc ² | Texture Sandy Loam | | Remarks |
| 101 K 3/3 | | | | Sandy Loan | - | |
| | | | | | - | |
| | | | | _ | | |
| | | | | | | |
| | | | | | | |
| Concentration, D=Depletion, RM- | -Peduced Matrix | CS-Covered or Coated Sa | and Grains 2 Locat | tion: PL=Pore Lining | M-Matrix | |
| I Indicators: | -itcaacca iviatiix | , co-covered or codica of | | ndicators for Proble | | oils³: |
| Histosol (A1) | | Sandy Gleyed mat | trix (S4) | | airie Redox (A1 | 6) |
| Histic Epipedon (A2) | | Sandy Redox (S5) | <u> </u> | Dark Sur | ` ' | |
| Black Histic (A3) | | Stripped Matrix (S | · — | | ganese Masses | |
| Hydrogen Sulfide (A4) | | Loamy Mucky Min | | | allow Dark Surfa | |
| Stratified Layers (A5) 2 cm Muck (A10) | e (A11) | Loamy Gleyed Ma | | Other (E | xplain in Remar | KS) |
| Depleted Below Dark Surface | Δ (Δ11) | Depleted matrix (F Redox Dark Surfa | • | 3Indicato | rs of hydrophyti | c vegetation an |
| Thick Dark Surface (A12) | | Depleted Dark Sur | . , | | nydrology must | |
| Sandy Mucky Mineral (S1) | | Redox Depression | , , | unless di | sturbed or prob | lematic |
| 5 cm Mucky Peat or Peat (S3 | | ROGON DOPROGRA | 10 (1 0) | arnoco ar | otarboa or prob | iomano. |
| | • | | | | | |
| Layer (if observed): | | | | | | |
| | | | Hydric Soil F | Present? | Yes | No |
| | | | 11,4 | | | |
| | | | | | | |
| OGY | | | | | | |
| ydrology Indicators: dicators (minimum of one is requi | red; checked all | | | | ary Indicators (m | |
| ydrology Indicators: dicators (minimum of one is requi Surface water (A1) | red; checked all | Water-Stained Leaves | s (B9) | Su | rface Soil Cracks | s (B6) |
| ydrology Indicators: dicators (minimum of one is requi Surface water (A1) High Water Table (A2) | red; checked all - - - | Water-Stained Leaves Aquatic Fauna (B13) | , , | Su Dr | rface Soil Cracks ainage patterns (| s (B6) (B10) |
| ydrology Indicators: dicators (minimum of one is requi Surface water (A1) High Water Table (A2) Saturation (A3) | red; checked all : - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E | 314) | Su Dr. Dr | rface Soil Cracks ainage patterns (y-Season Water | s (B6) (B10) table (C2) |
| ydrology Indicators: dicators (minimum of one is requi Surface water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) | red; checked all : - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E Hydrogen Sulfide Odo | 314) or (C1) | Su Dr. Cr. | rface Soil Cracks ainage patterns (y-Season Water ayfish Burrows (0 | s (B6) (B10) table (C2) C8) |
| ydrology Indicators: dicators (minimum of one is requi Surface water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | red; checked all : - - - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E | 314) or (C1) s on Living roots (C3 | Su S | rface Soil Cracks ainage patterns (y-Season Water | s (B6) (B10) table (C2) C8) on Aerial Imagery |
| ydrology Indicators: dicators (minimum of one is requi Surface water (A1) digh Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Algal Mat or Crust (B4) | red; checked all : - - - - - - - | Water-Stained Leaves Aquatic Fauna (B13) True Aquatic Plants (E Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reductior | B14) or (C1) os on Living roots (C3 Iron (C4) on in Tilled Soils (C6) | Su Dr. Dr. Cr. Sa. Sa. St. Ge | orface Soil Cracks ainage patterns (y-Season Water ayfish Burrows (turation Visible of unted or Stresse comorphic Position | s (B6) (B10) table (C2) C8) on Aerial Imagen d Plants (D1) on (D2) |
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APPENDIX B SITE PHOTOGRAPHS

APPENDIX B TOPEKA SUBDIVISION: LAGRANGE COUNTY



1. View east of upland field at data point T1P1, 10/20/2022.



2. View south of Section II at data point T1P2, 10/20/2022.



3. View west of upland field at data point T1P3, 10/20/2022.



4. View west of upland field at data point T1P4, 10/20/2022.



5. View south of Section I at data point T1P5, 10/20/2022.



6. View west of Pond 1 at data point T1P6 10/20/2022.



7. View east of Section I at data point T1P7 10/20/2022.



8. View north of agricultural fields at T1P8 10/20/2022.



9. View west of agricultural fields at data point T1P9, 10/20/2022.





11. View south of agricultural fields at data point T1P11 10/20/2022.



12. View east of agricultural fields at T1P12 10/20/2022.



13. View east of agricultural fields at data point T2P1, 10/20/2022.



14. View west of lawn at data point T2P2 10/20/2022.



15. View south of agricultural fields at data point T2P3, 10/20/2022.



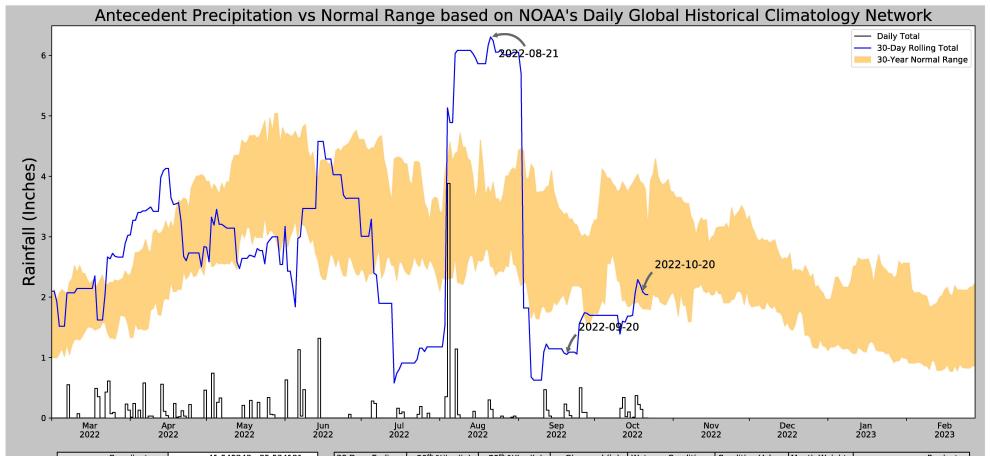
16. View north of agricultural fields at T2P4, 10/20/2022.



17. View north of upland field at T2P5, 10/20/2022.

APPENDIX C

"TYPICAL YEAR" PRECIPITATION DATA



| Coordinates | 41.545243, -85.534121 |
|----------------------------------|----------------------------|
| Observation Date | 2022-10-20 |
| Elevation (ft) | 927.63 |
| Drought Index (PDSI) | Moderate wetness (2022-09) |
| WebWIMP H ₂ O Balance | Wet Season |

| 30 Days Ending | 30 th %ile (in) | 70 th %ile (in) | Observed (in) | Wetness Condition | Condition Value | Month Weight | Product |
|----------------|----------------------------|----------------------------|---------------|-------------------|-----------------|--------------|------------------------|
| 2022-10-20 | 1.79685 | 3.877953 | 2.082677 | Normal | 2 | 3 | 6 |
| 2022-09-20 | 1.86063 | 3.388189 | 1.051181 | Dry | 1 | 2 | 2 |
| 2022-08-21 | 2.500787 | 3.708662 | 6.30315 | Wet | 3 | 1 | 3 |
| Result | | | | | | | Normal Conditions - 11 |



| Weather Station Name | Coordinates | Elevation (ft) | Distance (mi) | Elevation Δ | Weighted ∆ | Days Normal | Days Antecedent |
|----------------------|-------------------|----------------|---------------|-------------|------------|-------------|-----------------|
| GOSHEN MUNI AP | 41.5272, -85.7922 | 827.1 | 13.406 | 100.53 | 7.38 | 8906 | 89 |
| GOSHEN 1.8 SE | 41.5614, -85.8093 | 816.929 | 2.523 | 10.171 | 1.161 | 16 | 1 |
| GOSHEN 1.4 SSE | 41.5586, -85.8287 | 807.087 | 2.876 | 20.013 | 1.352 | 9 | 0 |
| SYRACUSE 4.4 NNW | 41.4847, -85.7701 | 827.1 | 3.151 | 0.0 | 1.418 | 1 | 0 |
| GOSHEN 3SW | 41.5575, -85.8825 | 875.0 | 5.118 | 47.9 | 2.548 | 2328 | 0 |
| LEESBURG 4 E | 41.3306, -85.7819 | 839.895 | 13.594 | 12.795 | 6.291 | 86 | 0 |
| LIGONIER 2 S | 41.4311, -85.5897 | 925.853 | 12.408 | 98.753 | 6.809 | 7 | 0 |

APPENDIX D WETLAND MAPPING CONVENTIONS

Wetland Mapping Conventions

Earth Source, Inc. performed a wetland delineation using the wetland mapping conventions for the Carina Solar project site. The wetland mapping conventions is a method used to guide wetland delineators in making off-site wetland determinations on agricultural lands and takes into consideration above normal and below normal precipitation periods. The principal tools used to make the wetland determination are 1) U.S. Fish and Wildlife Service (FWS) National Wetland Inventory (NWI) maps, 2) County Soil Survey, 3) Aerial photographs from Google Earth and National Agriculture Imagery Program (NAIP) and 4) precipitation data from the closest reporting NOAA's Daily Global Historical Climatology Network station to the project.

Precipitation data was obtained from the NOAA's Daily Global Historical Climatology Network using the Army Corps of Engineer's Antecedent Precipitation Tool Version 1.0 to determine the wetness conditions of each aerial photograph. Data were collected from the following stations: Goshen Muni AP, Wolcottville 1.1 WNW, Ligonier 2 S, Ligonier 4/3 WNW, Millersburg 0.5 SW, and LaGrange. Three (3) months preceding each aerial photograph were evaluated and weighted based on the wetness condition compared to the 30-year normal rainfall for that period. Months greater than the 30-year normal rainfall were determined to be "Wet" and were weighted "3". Months within the 30-year normal rainfall were determine to be "Normal" and were weighted "2". Months less than the 30-year normal rainfall were determined to be "Dry" and were weighted "1". The three (3) months preceding each aerial photograph were also weighted on antecedent condition. The month prior to the aerial photograph was weighted "3", second month prior "2" and third month prior "1". The product of the wetness condition and antecedent condition were totaled for the three (3) months preceding each aerial photograph. A "Wetter than Normal" precipitation preceding an aerial photograph has a score greater than 14. A "Normal" precipitation preceding an aerial photograph has a score greater than or equal to 10 and less than or equal to 13. A "Drier than Normal" precipitation preceding an aerial photograph has a score less than 10.

The National Wetland Inventory Map and LaGrange County Soil Survey were included in the wetland delineation report. Aerial photographs were reviewed online on Google Earth and the NAIP. A minimum of five (5) years of aerial photographs that were determined to have normal precipitation based on the precipitation of the three (3) months preceding each aerial photograph flight were used to evaluate the percentage of occurrence of wetland signatures or hydrology indicators needed for a wetland determination. If five (5) years of normal precipitation aerial photographs were not available, then an equal number of wetter-than-normal and drier-than-normal aerial photographs will be selected to complete a set of at least five (5) years.

Wetland determination is based on the following convention list:

1) If wetland signature occurrence is equal to or greater than 50% of the reviewed aerial photographs, the area is marked as a wetland regardless of the NWI map indications.

PAGE 1 OF 5 (10/27/2022)

- 2) If wetland signature occurrence is equal to or greater than 30% but less than 50% of the reviewed aerial photographs, and is verified by the NWI map, the area is marked as a wetland.
- 3) If wetland signature occurrence is equal to or greater than 30% but less than 50%, is not verified by the NWI map, the area is a potential wetland. An on-site investigation will be required for final verification.
- 4) If wetland signature occurrence is less than 30% of the reviewed aerial photographs, but is verified by the NWI map, the area is a potential wetland. An on-site investigation will be required for final verification.
- 5) If wetland signature occurrence is less than 30% of the reviewed aerial photographs, and cannot be verified by the NWI map, the area is marked Prior Converted if hydric soils are present, or marked as Non-wetland if hydric soils are not present.

Result and Conclusion:

The Topeka project site consists of active agricultural fields. The NWI identifies 1 wetland within the property boundary. The LaGrange County Soil Survey indicates the presence of one (1) mapped hydric soil with greater than 66% hydric components, Rensselaer Loam, within the project site. The areas of hydric soil within the agricultural field were evaluated for wetland signatures.

Of the available Google Earth and NAIP aerial photographs 2003, 2007, 2008, and 2020 aerials were determined to be normal precipitation. Three (3) drier than normal years (2005, 2015, 2022) and three (3) wetter than normal years (2006, 2010, 2011) were also reviewed. A 1965 aerial photograph was also reviewed on the IHAPI website to determine if the agricultural field was cropped before 1965. The 1965 aerial photograph indicates the agricultural fields were cropped before 1965.

Area 1 is located on the western portion of the site, north of Todd Street. Wetland signatures were identified on 40% of the aerial photographs (2006, 2011, 2020, and 2022) and included stressed vegetation, saturated soils, and greener vegetation. Since wetland signatures were identified on greater than 30% but less than 50% of the reviewed aerial photographs, and is not verified by the NWI map, field investigation was required. Field investigation confirmed the area contain hydrophytic vegetation does (*Panicum dichotomiflorum, Persicaria pensylvanica, Ambrosia trifida*) and wetland hydrology indicators (Saturation visible on aerial imagery, geomorphic position, FAC-neutral test), therefore the area is marked as a wetland (Section II, Delineation Graphic T6).

Area 2 is located in the center of the site surrounding a pond within an agricultural field. Wetland signatures were identified on 100% of the reviewed aerial photographs (2003, 2005, 2006, 2007, 2008, 2010, 2011, 2015, 2020, and 2022) and included areas of stressed crops, saturated soils, and surface water. Since wetland signatures were identified on over 50% of the reviewed aerial photographs, a field investigation was conducted. The field investigation PAGE 2 OF 5 (10/27/2022)

confirmed the area does contain hydrophytic vegetation (*Echinochloa crus-galli, Panicum dichotomiflorum, Eleocharis palustris, Persicaria pensylvanica, Phalaris arundinacea, Ambrosia trifida*) and wetland hydrology indicators (Geomorphic position, FAC-neutral test), therefore, the is classified as a wetland (Section I, Delineation Graphic T6).

Area 3 is located in the southwest corner of the site, north of Pleasant Drive and east of Golden Drive North. Wetland signatures were identified on 80% of the reviewed aerial photographs (2006, 2007, 2008, 2010, 2011, 2015, 2020, and 2022) and included patches of greener vegetation. Since wetland signatures were identified on over 50% of the reviewed aerial photographs, and is not verified by the NWI map, field investigation was required. Field investigation confirmed the area does contain hydrophytic vegetation (*Phalaris arundinacea*) but does not contain wetland hydrology indicators, therefore the area does not meet wetland criteria and is classified as Prior Converted.

Area 4 is located in the northeast section of the property, along the northern property boundary. Wetland signatures were identified on 30% of the reviewed aerial photographs (2008, 2010, and 2015) and included stressed vegetation. Since wetland signatures were identified on exactly 30% of the reviewed aerial photographs, and is not verified by the NWI map, a field investigation was required. The field investigation confirmed part of the area does not contain hydrophytic vegetation or wetland hydrology indicators, therefore the area does not meet wetland criteria and is classified as Prior Converted.

Area 5 is located in the northeast section of the property, along the eastern property boundary. Wetland signatures were identified in 30% of the reviewed aerial photographs (2006, 2010, 2011) and included stressed vegetation and patches of greener vegetation. Since wetland signatures were identified on exactly 30% of the reviewed aerial photographs, and is not verified by the NWI map, a field investigation was required. The field investigation confirmed the area does not contain hydrophytic vegetation or wetland hydrology, therefore the area does not meet wetland criteria and is classified as Prior Converted.

Area 6 is located in the center of the eastern portion of the property. Wetland signatures were identified on 20% of the reviewed aerial photographs (2010, 2011) and included stressed vegetation and patches of greener vegetation. Since wetland signatures were identified on less than 30% of the reviewed aerial photographs, and is not verified by the NWI map, a field investigation was conducted. The field investigation confirmed the area does not contain hydrophytic vegetation or wetland hydrology, therefore the area does not meet wetland criteria and is classified as Prior Converted.

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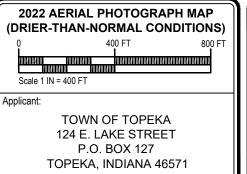
PAGE 4 OF 5 (10/27/2022)

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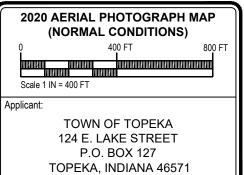




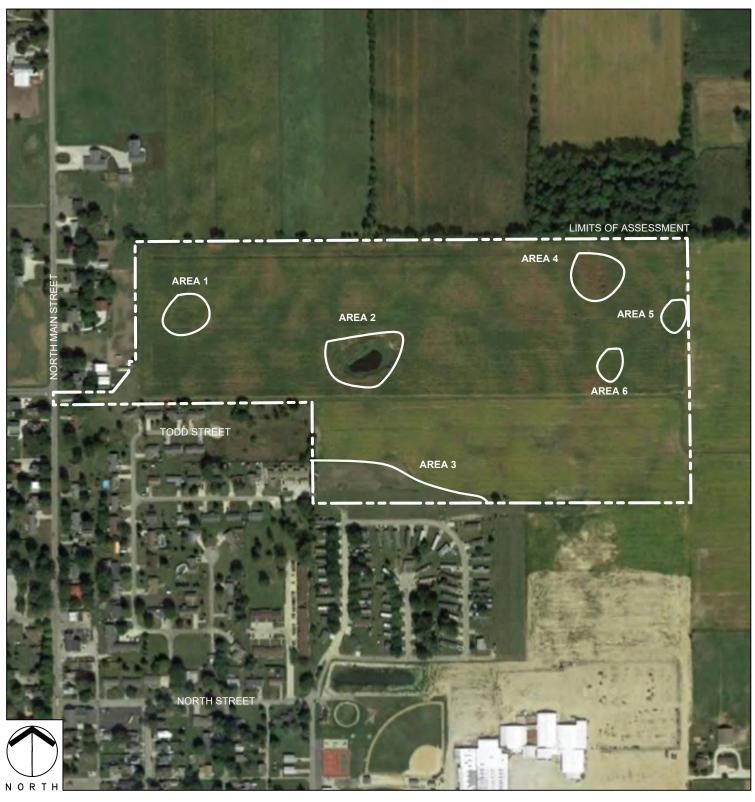
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| T36N | R8 | 3E | SEC 30 |
| Quadrangle: | | | |
| | TOPE | KA (IN) | |
| Latitude/Longitude | WGS 84) | | |
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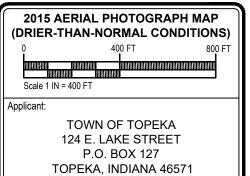




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| INDIANA | INDIANA | | AGRANGE |
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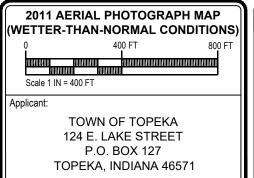




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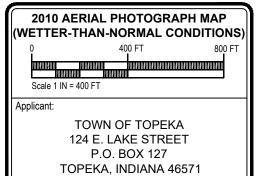




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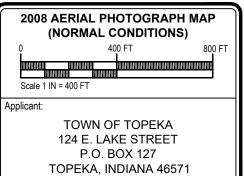




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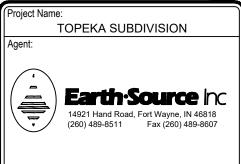


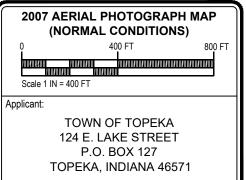




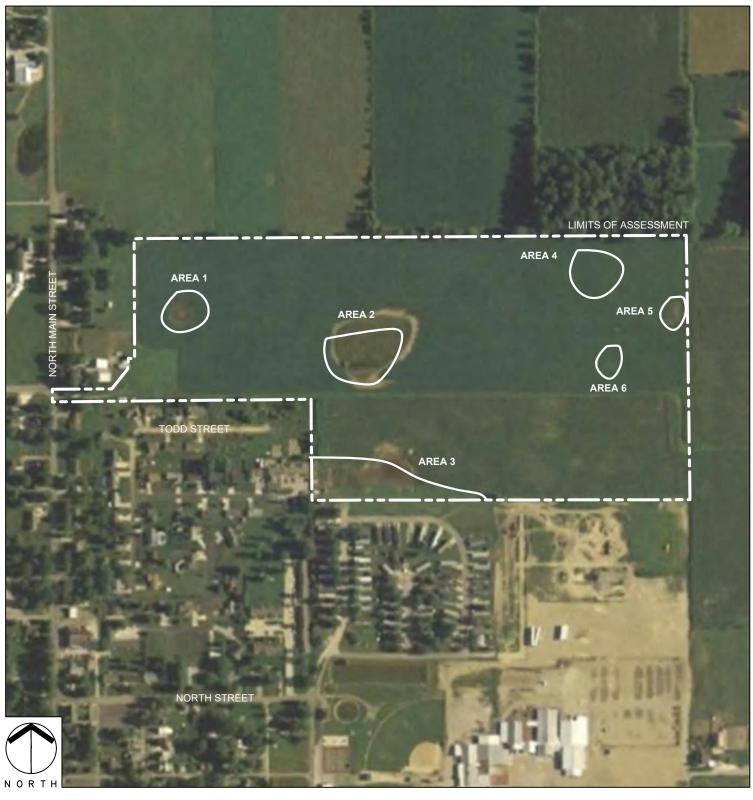
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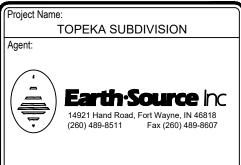


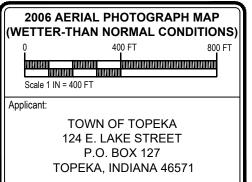




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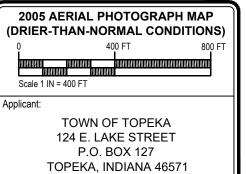




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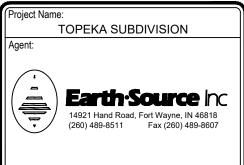


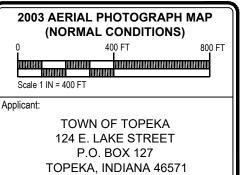




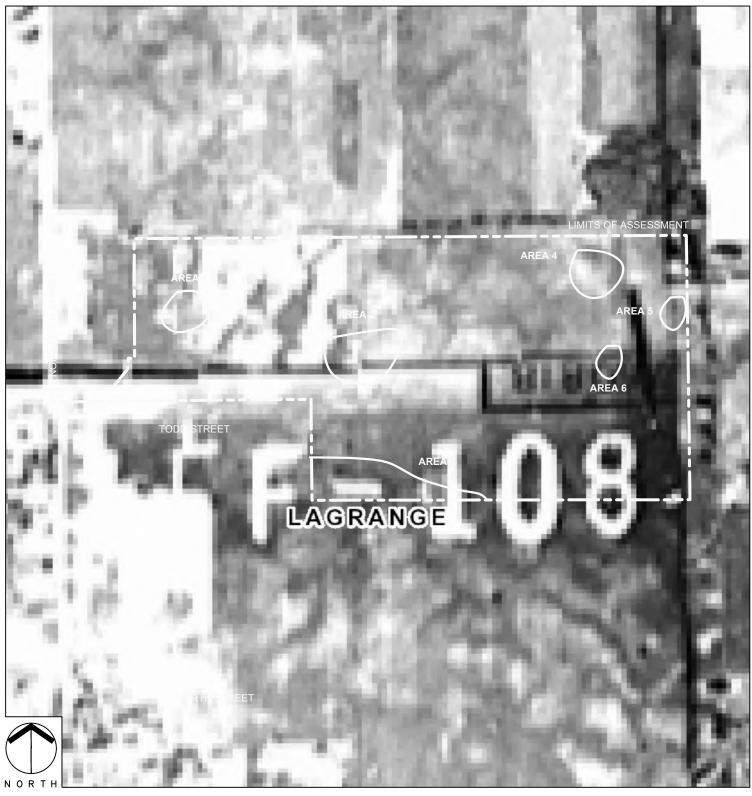
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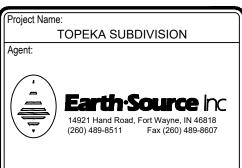


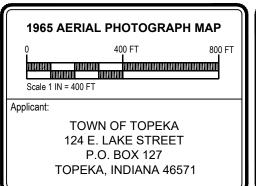




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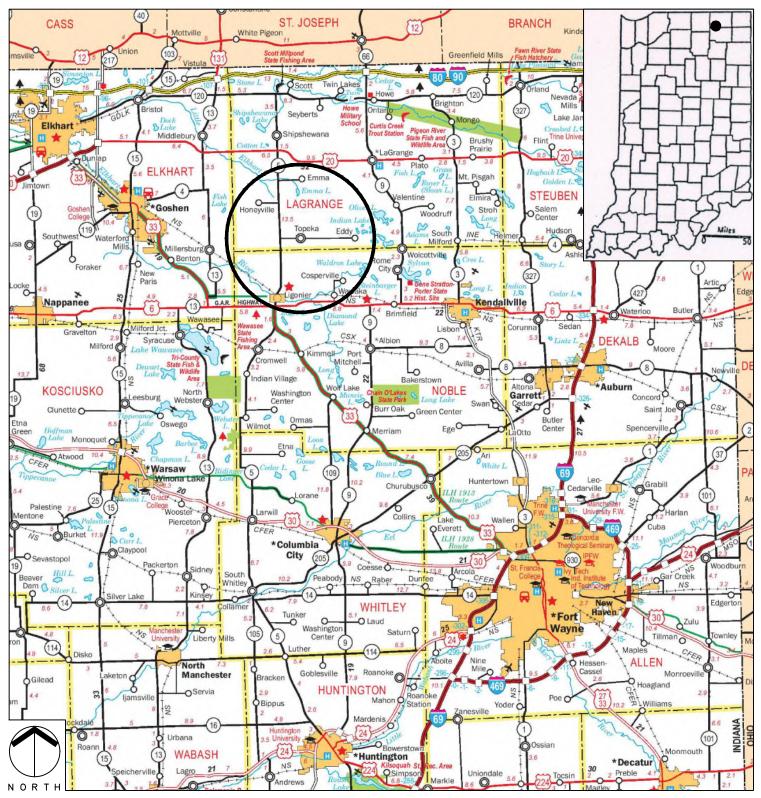


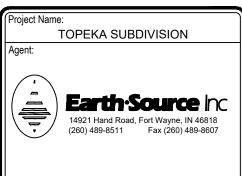


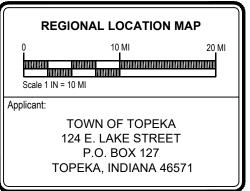
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DELINEATION GRAPHICS

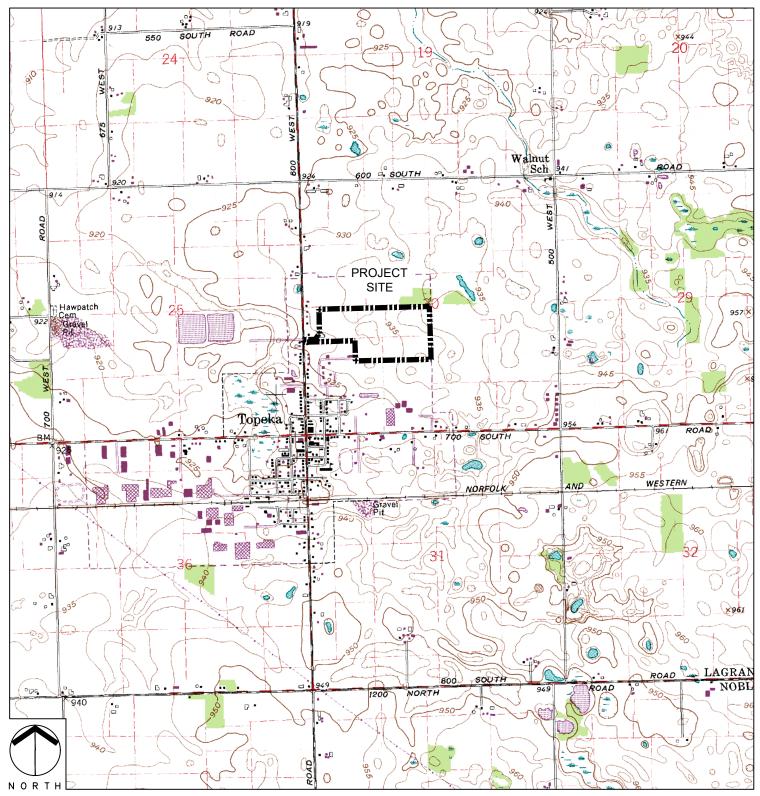
| REGIONAL LOCATION MAP | T1 |
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| PROJECT LOCATION MAP | T2 |
| NATIONAL WETLANDS INVENTORY MAP | Т3 |
| LAGRANGE COUNTY SOIL SURVEY MAP | T4 |
| 2020 AERIAL PHOTOGRAPH MAP | T5 |
| WETLAND DELINEATION MAP | Т6 |
| DATA POINT LOCATION MAP | Т7 |

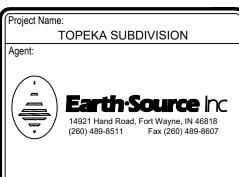


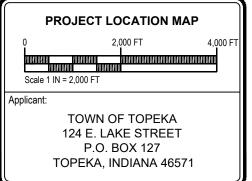




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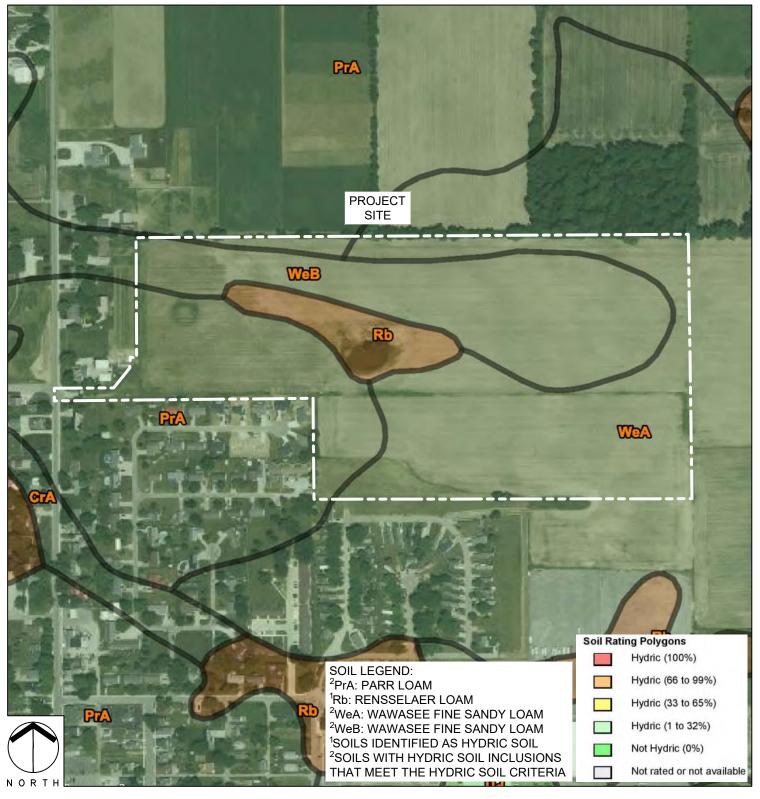


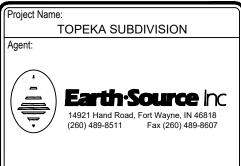
Estuarine and Marine Wetland Freshwater Pond Riverine

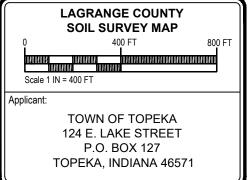


| NATIONAL WETLANDS INVENTORY MAP | | | | | |
|---|--|--|--|--|--|
| 0 400 FT 800 FT Scale 1 IN = 400 FT | | | | | |
| Applicant: | | | | | |
| TOWN OF TOPEKA 124 E. LAKE STREET P.O. BOX 127 TOPEKA, INDIANA 46571 | | | | | |

| State: | | County: | | |
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| INDIANA | | LAGRANGE | | |
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| Quadrangle: | | | | |
| TOPEKA (IN) | | | | |
| Latitude/Longitude (WGS 84): | | | | |
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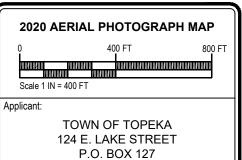




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| INDIANA | | LAGRANGE | | |
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| Quadrangle: | | | | |
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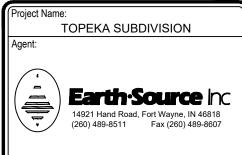


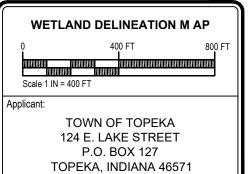


TOPEKA, INDIANA 46571

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| INDIANA | | LAGRANGE | | |
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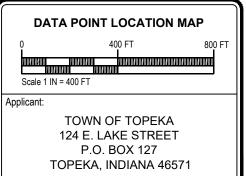




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LAND PLANNING - LANDSCAPE ARCHITECTURE
CONSTRUCTED WETLANDS - WATERSHED ANALYSIS - HABITAT DESIGN
WETLAND DELINEATION, MITIGATION AND MONITORING
SECTION 10, 401 AND 404 PERMITTING

14921 Hand Road, Ft. Wayne, IN 46818 (260) 489-8511 FAX: (260) 489-8607