# APPENDIX B

# WETLAND DELINEATION REPORT FOR THE DREDGE SPOILS AREA LCP BRIDGE STREET SITE

# WETLAND DELINEATION REPORT
# FOR THE DREDGE SPOILS AREA
# LCP BRIDGE STREET SITE

**TOWN OF GEDDES, ONONDAGA COUNTY,**
**NEW YORK**

Prepared for:

**PARSONS.**
**301 Plainfield Road, Suite 350**
**Syracuse, New York 13212**

Prepared by:

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January 2012

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## 1.0 INTRODUCTION

Terrestrial Environmental Specialists, Inc. (TES) was contracted by Parsons. to perform a wetland investigation on the Dredge Spoils Area (DSA) at the LCP Bridge Street Site in the Town of Geddes, Onondaga County, New York. The study area consists of two areas of the LCP Bridge Street Site; the areas total approximately 3.8 acres and are located west of Bridge Street and south of the New York State Fair Grounds (Figures 1 and 6). The larger of the two areas is approximately 3.5 acres in size, while the smaller area is approximately 0.3 acre in size.

The TES wetland investigation consisted of a review of available background information and a field delineation of wetlands and other regulated waters. This report addresses the results of the background information review and the wetland delineation. A variety of figures are included with this report, along with photographs and field data sheets.

## 2.0 BACKGROUND INFORMATION REVIEW

Prior to the field investigation at the site, TES assembled and reviewed available background information. This information included:

- the New York State Department of Transportation (NYSDOT) Topographic map (Syracuse West quadrangle) (Figure 1);
- the New York State Department of Environmental Conservation (NYSDEC) New York State Freshwater Wetlands map (Figure 2);
- the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map (Figure 3);
- the Onondaga County Soil Survey map prepared by the Natural Resources Conservation Service (Figure 4);
- the New York State Surface Water Classification map (Figure 5); and
- a 2009 aerial photograph obtained from the New York State GIS Clearinghouse (Figures 7).

All the background maps were developed into figures and are provided after the text.

## 3.0 METHODS

The agency resource information maps, soils descriptions, and the aerial photograph discussed above were used during the field review of the site. These maps and information assisted in the initial identification of potential wetland areas.

Delineation of the wetlands on the site and data collection along the boundaries were performed by TES on August 17, 2011. The boundaries were delineated using the state and federal criteria for delineating wetlands (NYSDEC 1995, U.S. Army Corps of Engineers 2009, Environmental Laboratory 1987, Reed 1988, USDA NRCS 2010, NRCS 2011).

Surveyor's ribbons were placed along the wetland boundaries based on observations of vegetation, soils, and hydrology conditions. These observations were made along transects

located perpendicular to the wetland boundaries. Additional observations of vegetation, soils, and hydrology were made at intermediate locations between the transects for the placement of additional flagging. Each wetland flag was labeled with a letter identifier of the wetland and was numbered consecutively (for example, A-1, A-2, A-3, etc.). Thew Associates and Surveyors surveyed the flagged wetland boundaries.

To further support the wetland boundaries, data on vegetation, soils, and hydrology were collected during the field effort in plots along transects located perpendicular to the wetland boundaries on the site. TES sampled 8 plots in and around the wetlands and in other representative areas of the site. Plots were generally located on the wetland and upland sides of the flagged wetland boundaries. The plot data were recorded on data sheets similar to those used in the regional supplement (U.S. Army Corps of Engineers 2009).

Vegetation data were collected in all the plots. Ocular estimates of the percent areal cover by plant species for each vegetation layer (tree, shrub, and herbaceous layers) were recorded. The plots varied in size by vegetation layer being sampled. The sizes were: 30-foot radius for the trees, 15-foot radius for the shrubs, and 5-foot radius for the herbaceous layer.

The presence of wetland vegetation was determined when more than 50 percent of the dominant species in a sample plot had an indicator status of obligate (OBL), facultative-wet (FACW), or facultative (FAC). The dominant species for each layer in a plot were determined by ranking the species in decreasing order of percent cover and recording those species which, when cumulatively totaled, immediately exceeded 50 percent of the total cover of that layer. Additionally, any plant species that comprised 20 percent or more of the total cover for each layer was considered to be a dominant species.

Scientific nomenclature for plant species follows *A Checklist of New York State Plants* (Mitchell and Tucker 1997). The indicator status for each dominant plant species was determined using the *National List of Plants that Occur in Wetlands: Northeast (Region 1)* (Reed 1988), excluding the positive (+) or negative (-) modifiers for facultative indicator categories. For any species not included in the list, the indicator status was designated using the *Manual of Vascular Plants of Northeastern United States and Adjacent Canada* (Gleason and Cronquist 1991), *New Britton and Brown Illustrated Flora* (Gleason 1952), and *Gray's Manual of Botany* (Fernald 1950).

Soil and hydrology data were collected in soil pits or soil borer holes to a minimum depth of 20 inches within each sample plot. Soil characteristics were noted along the soil profile at the depth specified by the Corps criteria (U.S. Army Corps of Engineers 2009). Procedures for identifying hydric soils as outlined in the *Field Indicators of Hydric Soils in the United States* (USDA NRCS 2010) were also followed. Soil colors were determined by using the Munsell color chart. Primary and secondary indicators of hydrology were also noted at each sample plot. The wetland boundaries were refined on the basis of intermediate soil borer holes along each transect.

## 4.0 RESULTS

The following section of the report provides a site description and wetland descriptions at the DSA.

### 4.1 Site Description

The NYSDOT topographic map (Figure 1) shows the site located west of Bridge Street and south of the New York State Fair Grounds in the Town of Geddes, Onondaga County, New York. The study area is generally flat at an elevation of approximately 280 feet above mean sea level (amsl). The West Flume is located south of the study area, with a drainage ditch to the north along the railroad right-of-way, which appears to flow northwest into Geddes Brook. Geddes Brook flows north into Ninemile Creek, which flows into Onondaga Lake.

The NYSDEC New York State Freshwater Wetlands map (Figure 2) shows one state-regulated wetlands on the study area. This state-regulated wetland (SYW-14), a Class III wetland, occupies a large portion of the study area.

No wetlands are mapped in the study area on the USFWS NWI map (Figure 3).

The Onondaga County Soil Survey map prepared by the Natural Resources Conservation Service indicates that the following three different soils occur on the site (Figure 4):

- Fonda mucky silty clay loam (Fo);
- Niagara silt loam, 0 to 4 percent slopes (NgA); and
- Urban lands (Ub).

Fonda mucky silty clay loam is recognized as a hydric (wetland) soil. This soil is located in the northern and western portions of the larger area within the study area.

The New York State Surface Water Classification map (Figure 5) shows the West Flume adjacent to the southern edge of the study area. It flows northwest into Geddes Brook. This tributary is designated with a water quality classification of Class C with C Standards by the NYDEC. It is not a state-protected waterbody since it does not have a Class or Standard of CT (trout) or higher.

The 2009 aerial photograph (Figure 7) shows that the site is undeveloped land. The majority of the study area is open field with portions of scrub shrub and young deciduous forest.

### 4.2 Site Ecology

The study area consisted of open field, scrub-shrub uplands, and wetlands. The majority of the study area is open field. Perennial rye (*Lolium perenne*), Alsike clover (*Trifolium hybridum*), and common reed (*Phragmites australis*) were the dominant species found in the open field.

The scrub-shrub cover type was located in the southeast portion of the study area. Within the scrub-shrub area common buckthorn (*Rhamnus cathartica*) was the dominant species in the shrub layer. White avens (*Geum canadense*) and lesser burdock (*Arctium minus)* were the dominant species found in the herbaceous layer of the scrub-shrub community.

### 4.3 Wetlands Descriptions

Two wetlands were found on the site and are referred to as Wetland 1 and Wetland 2. The wetland boundaries were flagged with coded surveyor's ribbon using the state and federal criteria for delineating wetlands (NYSDEC 1995, U.S. Army Corps of Engineers 2009, Environmental Laboratory 1987, Reed 1988, NRCS 2011). The delineated wetland boundaries are shown on Figure 7 and were surveyed by Thew Associates and Surveyors. Wetlands 1 and 2 total approximately 1.49 acres in size.

Wetland sample plot and photograph locations are shown on Figure 8. Photographs and field data sheets are provided in Appendix A and Appendix B, respectively.

#### Wetland 1

Wetland 1 is a small swale approximately 0.09 acre in size, and is found in the small portion of the study area (Figure 7). Wetland 1 has two sections connected by a culvert and contained emergent wetlands. This wetland flows west into the West Flume.

Common reed dominated Wetland 1. It contained no trees and the shrub layer consisted of silky dogwood (*Cornus amomum*).

Soils in Wetland 1 are mapped as Niagara silt loam and urban lands (Figure 4). Soils consisted of black (10YR 4/1) silt loam in the topsoil layer and dark gray (10YR 5/1) clay loam in the subsoil layer. The subsoil also contained dark yellowish brown (10YR 4/4) mottles that were common in the soil matrix. This soil fits the NRCS F3 indicator (Depleted Matrix).

Hydrology indicators throughout Wetland 1 included surface water, saturation within the upper 12 inches, and water stained leaves.

#### Wetland 2

Wetland 2 is approximately 1.42 acres in size, and is found along the northwest portion of the study area (Figure 7). Wetland 2 is an emergent wetland and contains no tree or shrub layers. Common reed and Pennsylvania smartweed (*Polygonum pensylvanicum*) dominated the herbaceous layer.

Soils in Wetland 2 are mapped as Niagara silty loam and Fonda mucky silty clay loam. The Fonda mucky silty clay loam is a hydric soil. Soils consist of very dark gray (10YR 3/1) silt loam and loam in the topsoil layer and light gray (10YR 7/1) waste material in the subsoil layer. This soil fits the NRCS F3 indicator (Depleted Matrix).

Hydrology indicators in this wetland include surface water, saturation, water marks, sediment deposits, algal mat or crust, and water stained leaves.

Wetland 2 is part of state-regulated wetland SYW-14. Since both Wetlands 1 and 2 have an apparent surface water connection to a tributary system of navigable waters, they are not isolated wetlands. Therefore, TES considers these wetlands to be Corps-jurisdictional areas.

## 5.0 SUMMARY

Terrestrial Environmental Specialists, Inc. (TES) was contracted by Parsons to perform a wetland investigation on a site at the LCP Bridge Street Site Dredge Spoil area in the Town of Geddes, Onondaga County, New York. The study area, which consisted of two portions, is approximately 3.8 acres in size and is located west of Bridge Street, and south of the New York State Fair Grounds.

TES collected and reviewed available background information and maps, including topographic map, wetland maps, soils map and descriptions, stream classification map, and an aerial photograph to locate potential wetlands on the site. There is one mapped state-regulated wetlands on the study area, SYW-14.

Flagging of the wetlands on the study area and data collection along the boundaries were performed by TES on August 17, 2011. The boundaries were delineated using the federal and state criteria.

Two wetlands were delineated in the study area and are referred to as Wetland 1 (0.09 acre) and Wetland 2 (1.42 acre). Wetland 1 is associated with the West Flume, a tributary of Geddes Brook/Ninemile Creek. This wetland is a federal-jurisdictional area since it is associated with tributary systems to navigable waters. The West Flume is designated with a water quality of Class C with C Standards by the NYDEC. It is not a state-protected waterbody since it does not have a Class or Standard of CT (trout) or higher. Wetland 2 is part of NYSDEC regulated wetland SYW-14. Wetland 1 and Wetland 2 are emergent wetlands in an area of prior disturbance. Common reed grass is the dominant plant species in these wetlands.

## 6.0 REFERENCES


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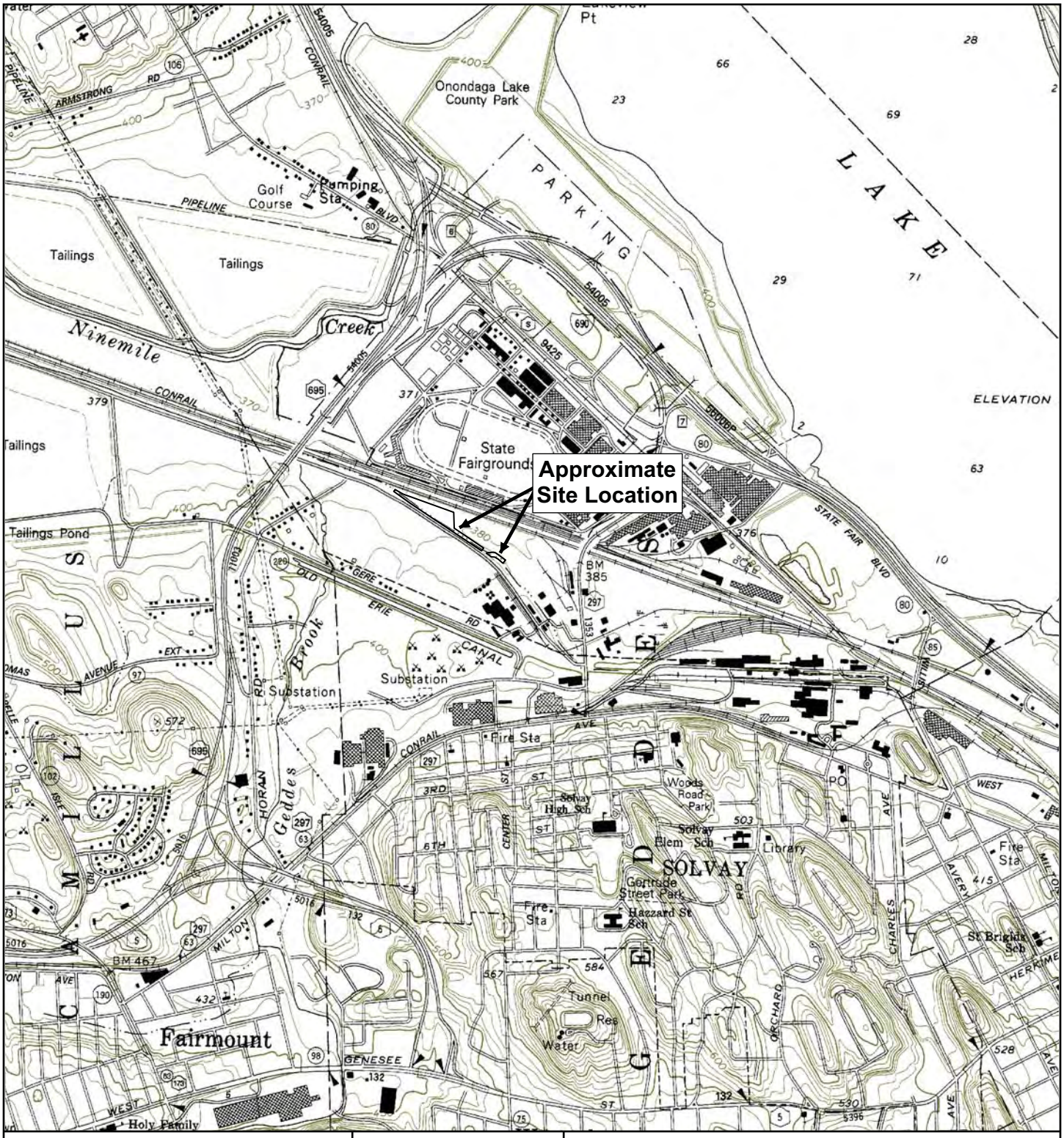
U.S. Army Corps of Engineers. 2009. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

USDA NRCS. 2010. *Field Indicators of Hydric Soils in the United States*, Version 7.0. L.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.



QUADRANGLE LOCATION

0 1000' 2000'

SCALE 1" = 2000'

NORTH

**Figure 1.**

**Site Location, LCP Dredge Spoil Area**

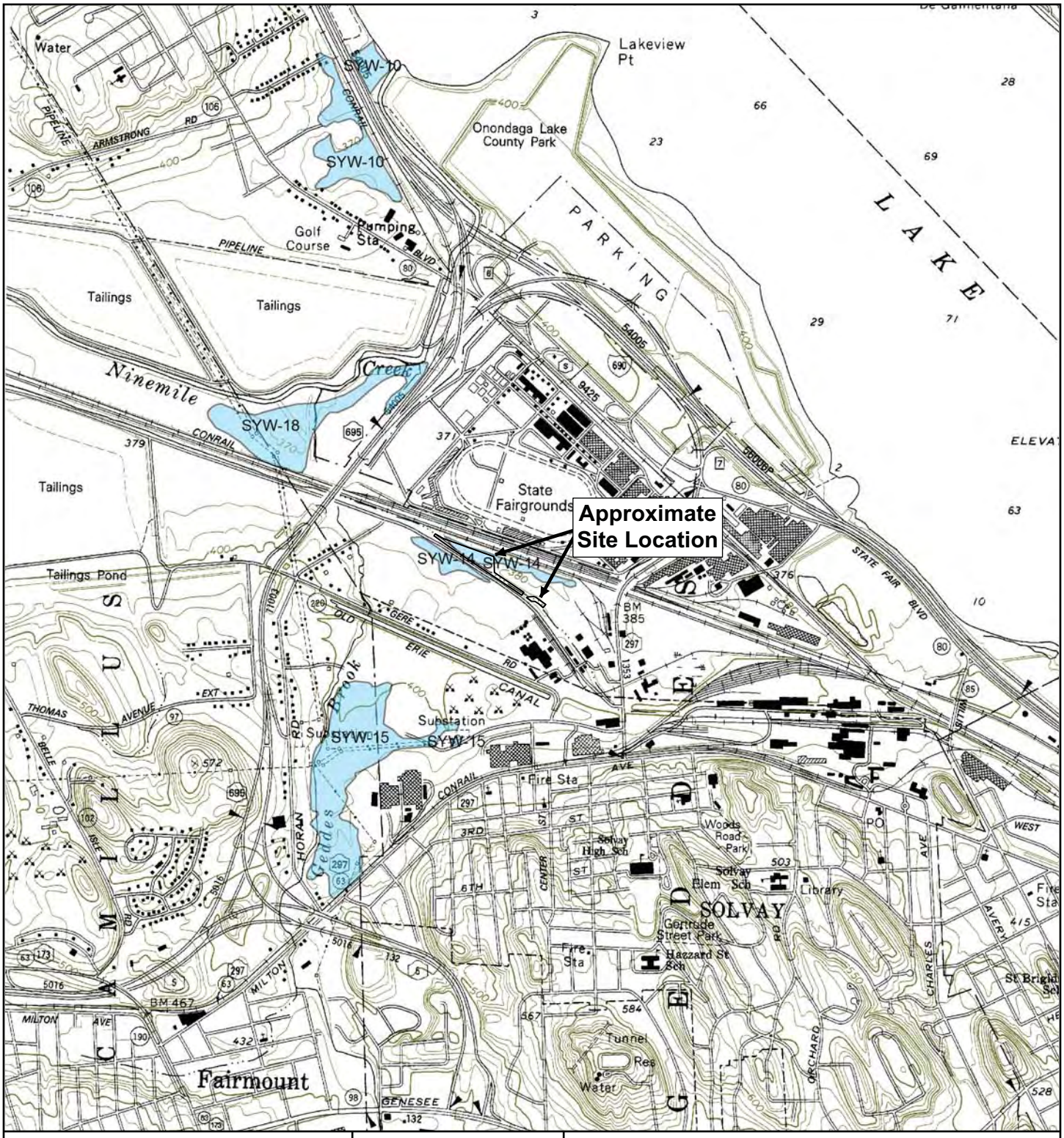
NYS DOT Topographic Map

Syracuse West Quadrangle

1990

Prepared by TERRESTRIAL ENVIRONMENTAL SPECIALISTS, Inc.

TES file: PAR-2682A/2682A-Fig1.dsf\7-20-11



0 1000' 2000'

SCALE 1" = 2000'

NORTH

**Figure 2.**

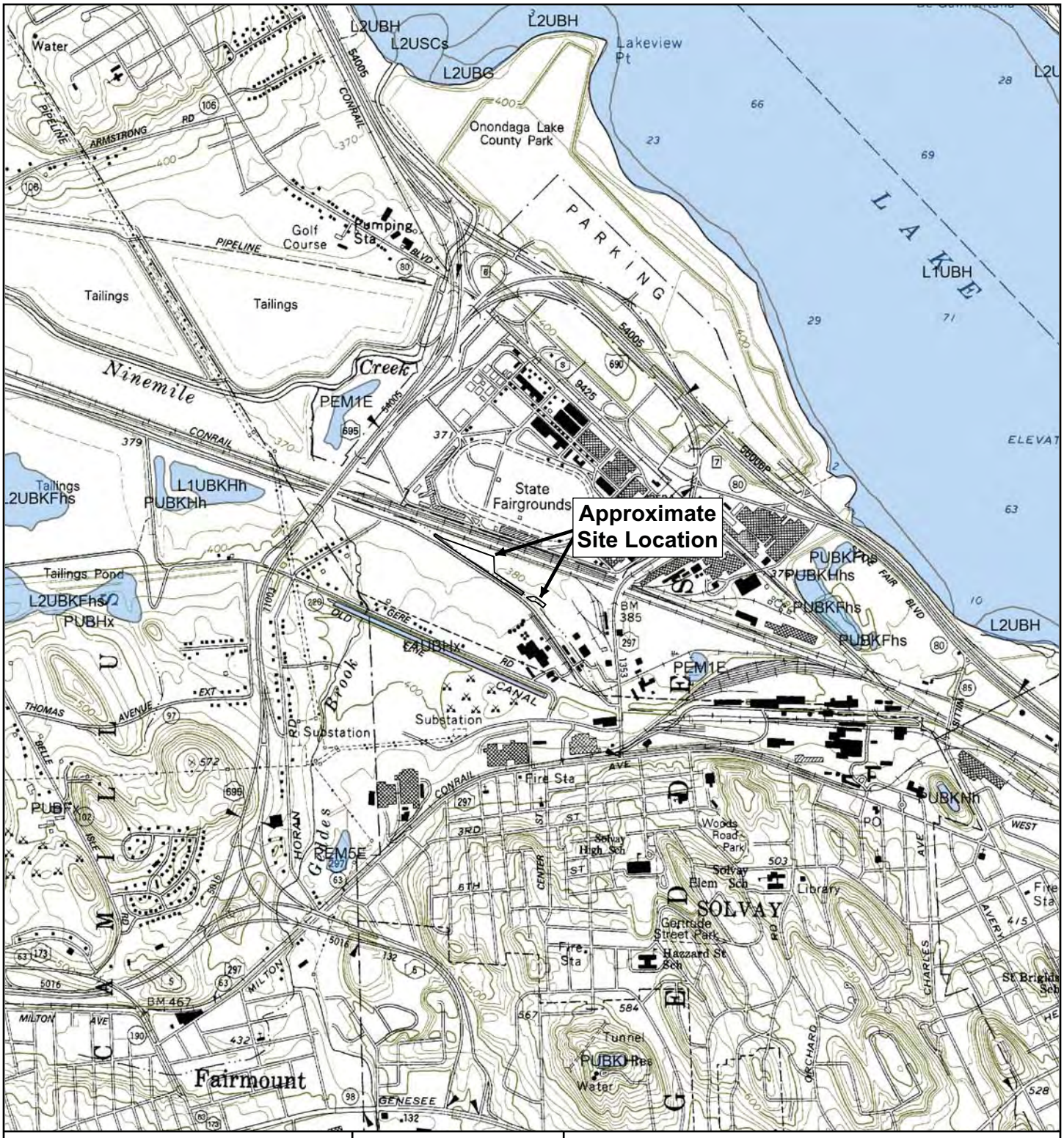
**NYS Freshwater Wetlands Map, LCP Dredge Spoil Area**

NYS Department of Environmental Conservation
cugir.mannlib.cornell.edu

Syracuse West Quadrangle
2007

Prepared by TERRESTRIAL ENVIRONMENTAL SPECIALISTS, Inc.

TES file: PAR-2682A\2682A-Fig2.dsf\7-20-11



0 1000' 2000'

SCALE 1" = 2000'

NORTH

**Figure 3.**

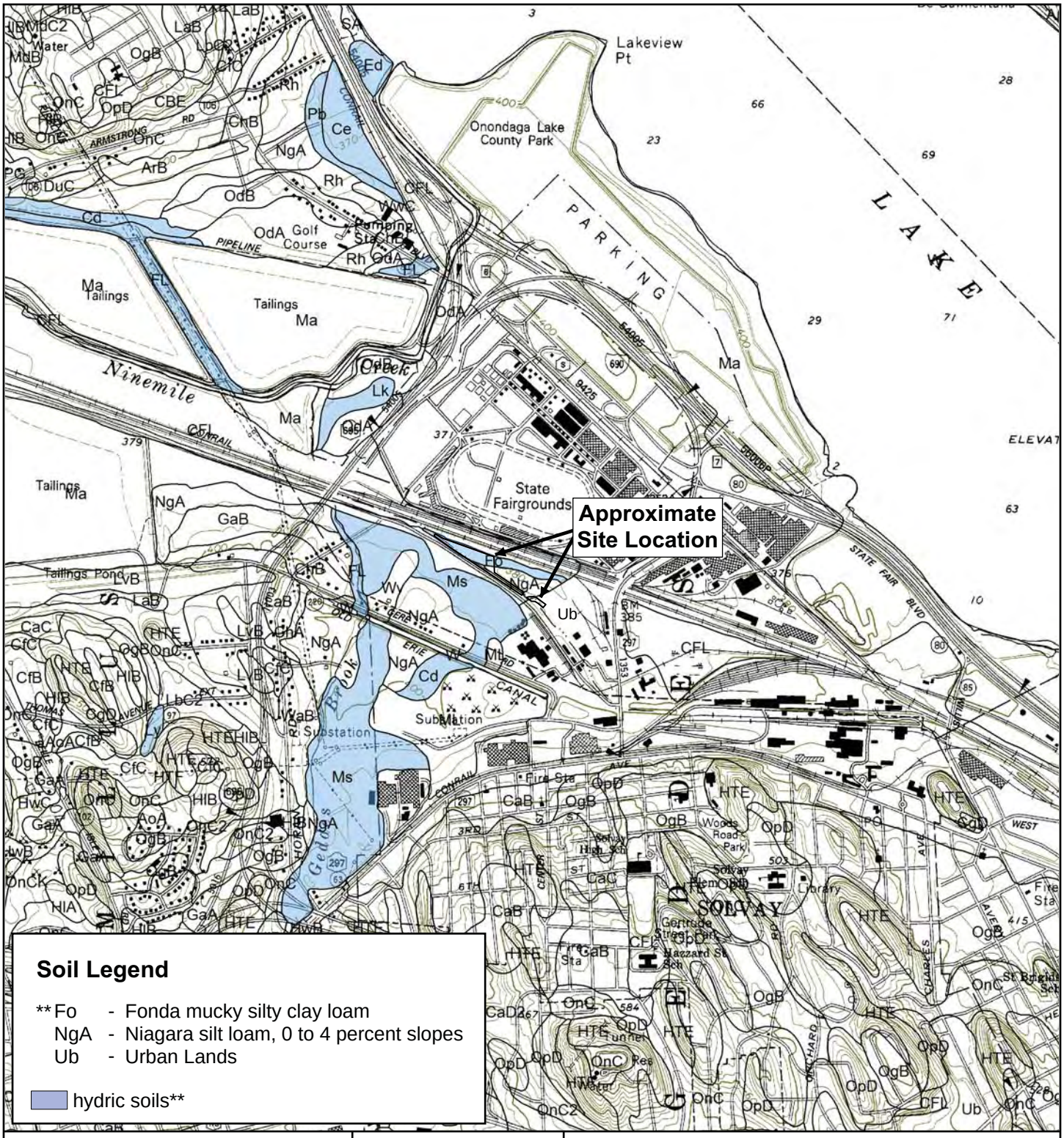
**National Wetlands Inventory Map, LCP Dredge Spoil Area Area**

U.S. Fish & Wildlife Service
www.fws.gov/nwi

Syracuse West Quadrangle
1983

Prepared by TERRESTRIAL ENVIRONMENTAL SPECIALISTS, Inc.

TES file: PAR-2682A\2682A-Fig3.dsf\7-20-11



QUADRANGLE LOCATION

0 1000' 2000'

SCALE 1" = 2000'

NORTH

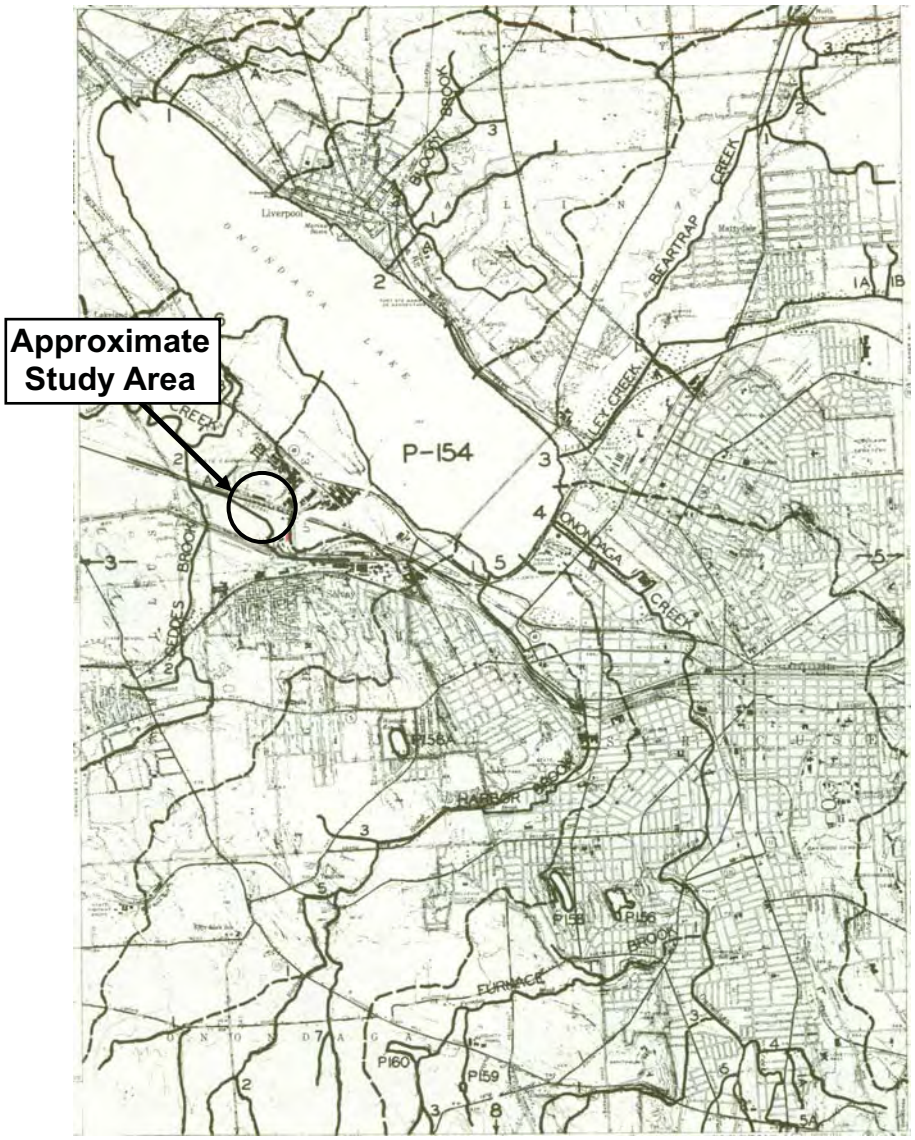
**Figure 4.**
**Soil Survey Map, LCP Dredge Spoil Area**

Natural Resources Conservation Service
SoilDataMart.nrcs.usda.gov

Onondaga County Soil Survey
2010

Prepared by TERRESTRIAL ENVIRONMENTAL SPECIALISTS, Inc.

TES file: PAR-2682A\2682A-Fig4.dsf\12-19-11




| Item No. | Waters Index Number | Name | Description | Map Ref. No. | Class | Standards |
|---|---|---|---|---|---|---|
| 87 | P 154-6-2 portion | Geddes Brook | Enters Ninemile Creek from south approximately 1.0 mile from mouth. From mouth to abandoned Erie Canal. | 4 | C | C |

Title 6 NYCRR, Chapter X
Article 14, Part 895.4 (1996)

Map 4

0' 3911' 7822'

SCALE 1" = 7822'

NORTH

**Figure 5.**

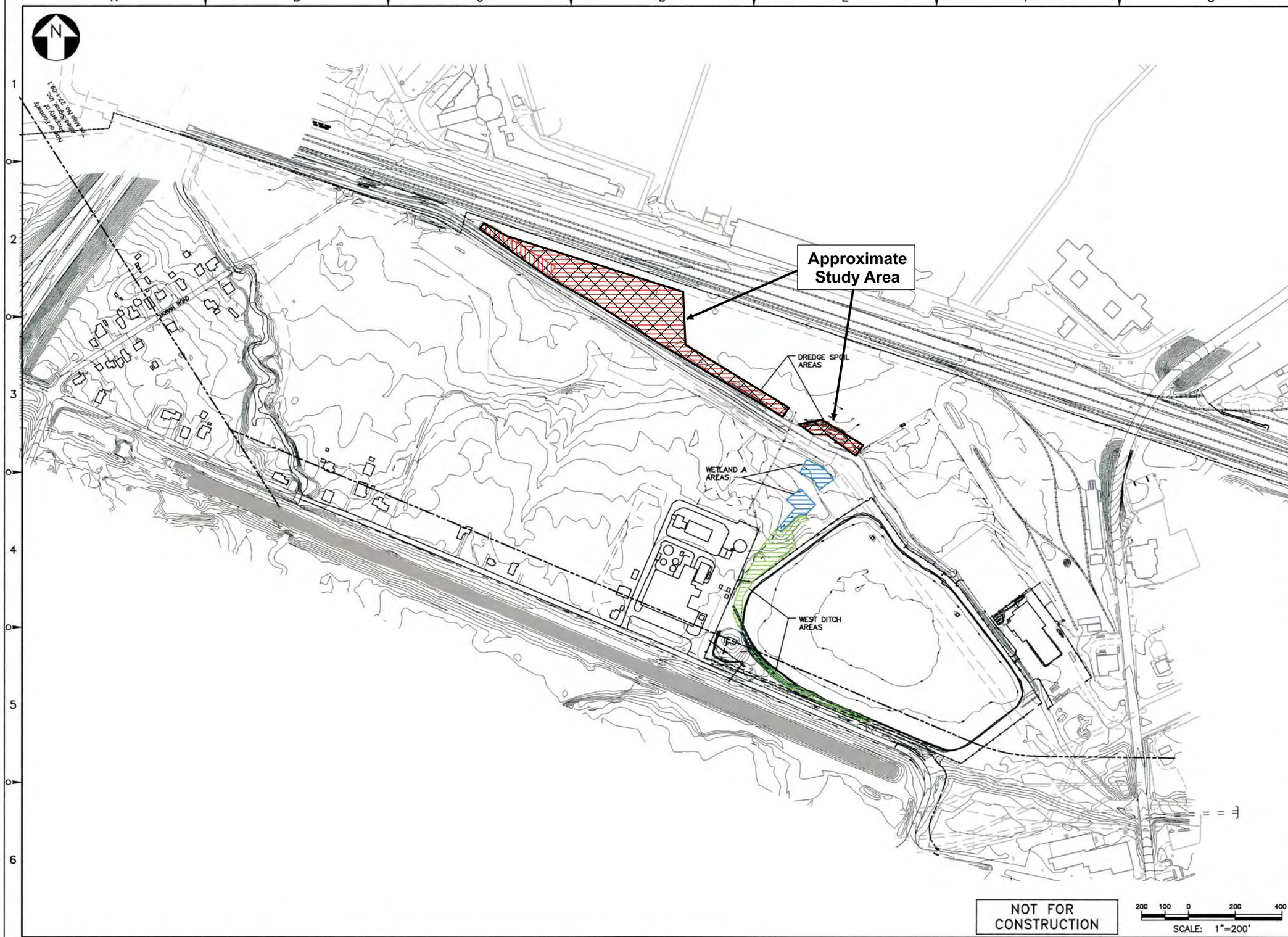
**Surface Water Classification Map**

NYSDEC

Syracuse West Quadrangle

Prepared by TERRESTRIAL ENVIRONMENTAL SPECIALISTS, Inc.

TES file: PAR-2682A\2682Afig5new.dsf\10-21-11




- Study Area

**Figure 6.**

**Site Location, LCP Dredge Spoil Area**

PRELIMINARY DRAFT
SETTLEMENT CONFIDENTIAL
NOT INTENDED FOR PUBLIC REVIEW

| NO. | DESCRIPTION | DATE | DRAWN | CHK'D | APPV'D |
|---|---|---|---|---|---|
| A | ISSUED FOR COMMENT (IN PROGRESS) | MM/DD/YY | | | |

| | | |
|---|---|---|
| DRAWN BY | DATE MM/DD/YY | SEAL |
| CHECKED BY | DATE MM/DD/YY | |
| APPROVED BY | DATE MM/DD/YY | |
| PROJECT MGR. | DATE MM/DD/YY | |

**PARSONS**
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SYRACUSE, NY 13212
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JOB 446662

WBS XXXXX

PROJECT TITLE
LCP OM&M REMOVALS 2011

LCP BRIDGE STREET SITE
SYRACUSE, NEW YORK

DRAWING TITLE
EXISTING SITE PLAN

SCALE
SCALE 1"=200'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO. 446662-C-001

REV. A

FILE NAME: P:\VENDTWELL -SYR\446662 - LCP OSS SUPPORT\TECH TECHNICAL CAD\DESIGN\LCP\SHEET\446662-C001.DWG
PLOT DATE: 8/12/2011 11:07 AM PLOTTED BY: RUSSO, JILL

NORTH

0 100' 200'

APPROXIMATE SCALE IN FEET

2-1 Wetland Area With Flag Numbers

Aerial Photograph obtained from NYS GIS Clearinghouse 2009

Surveyed by Thew Associates

Figure Prepared by Terrestrial Environmental Specialists, Inc.

**Figure 7.**

**2009 Aerial Photograph Showing Wetland Locations, LCP Dredge Spoil Area**

TES File: PAR-2682A\2682A-aerial-wet-loc.cdr\1-18-2012

**LEGEND**

1-1W Sample Plot Location

1 Photo Location and Direction

2-1 Wetland Area With Flag Numbers

Surveyed by Thew Associates

NORTH

0' 150' 200'

APPROXIMATE SCALE IN FEET

Aerial Photograph obtained from NYS GIS Clearinghouse 2009

Figure Prepared by Terrestrial Environmental Specialists, Inc.

**Figure 8.**

**2009 Aerial Photograph Showing Wetland Locations and Plot and Photograph Locations, LCP Dredge Spoil Area**

TES File: PAR-2682A\2682A-aerial-plot-photo.cdr\1-18-2012

# APPENDIX A – Photographs

Photo 1.

Photo 2.

Photo 3.

Photo 4.

Photo 5.

Photo 6.

Photo 7.

Photo 8.

# APPENDIX B – Field Data Sheets

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** 1-1U

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Swale

**Soil Map Unit Name:** Niagara silt loam, 0 to 4 percent slopes **Cover Type:** SSU

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

**Hydrophytic Vegetation Present?** Yes ○ No ◉

**Hydric Soil Present?** Yes ○ No ◉

**Wetland Hydrology Present?** Yes ○ No ◉

**Is the Sampled Area within a Wetland?** Yes ○ No ◉

If yes, optional Wetland Site ID:

**Remarks:**
Flag # 1-107, Photo # 1

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---|---|---|
| 1. | 0 | ☐ 0.0% | |
| 2. | 0 | ☐ 0.0% | |
| 3. | 0 | ☐ 0.0% | |
| 4. | 0 | ☐ 0.0% | |
| 5. | 0 | ☐ 0.0% | |
| | 0 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15' Radius) | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---|---|---|
| 1. Rhamnus cathartica | 100 | ☑ 100.0% | UPL |
| 2. | 0 | ☐ 0.0% | |
| 3. | 0 | ☐ 0.0% | |
| 4. | 0 | ☐ 0.0% | |
| 5. | 0 | ☐ 0.0% | |
| | 100 | = Total Cover | |

| Herb Stratum (Plot size: 5' Radius) | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---|---|---|
| 1. Geum canadense | 30 | ☑ 42.9% | FACU |
| 2. Arctium minus | 20 | ☑ 28.6% | UPL |
| 3. Inula helenium | 5 | ☐ 7.1% | UPL |
| 4. Aster sp. | 10 | ☐ 14.3% | FAC |
| 5. Lonicera morrowii | 5 | ☐ 7.1% | FACU |
| 6. | 0 | ☐ 0.0% | |
| 7. | 0 | ☐ 0.0% | |
| 8. | 0 | ☐ 0.0% | |
| 9. | 0 | ☐ 0.0% | |
| 10. | 0 | ☐ 0.0% | |
| | 70 | = Total Cover | |

| Woody Vine Stratum (Plot size: ) | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---|---|---|
| 1. | 0 | ☐ 0.0% | |
| 2. | 0 | ☐ 0.0% | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 10 | x 3 = | 30 |
| FACU species | 35 | x 4 = | 140 |
| UPL species | 125 | x 5 = | 625 |
| Column Totals: | 170 (A) | | 795 (B) |

Prevalence Index = B/A = 4.676

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☐ **Dominance Test is > 50%**
- ☐ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ○ No ◉

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 1-1U**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox Features % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-13 | 10YR | 3/1 | 100% | | | | | | Silt | |
| 13-18 | 10YR | 5/3 | 100% | | | | | | Silt | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ○ No ◉

Remarks:

Dry

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

**Wetland Hydrology Present?** Yes ○ No ◉

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

Remarks:

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** 1-1W

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Swale

**Soil Map Unit Name:** Niagara silt loam, 0 to 4 percent slopes **Cover Type:** EW

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

**Hydrophytic Vegetation Present?** Yes ◉ No ○

**Hydric Soil Present?** Yes ◉ No ○

**Wetland Hydrology Present?** Yes ◉ No ○

**Is the Sampled Area within a Wetland?** Yes ◉ No ○

If yes, optional Wetland Site ID:

**Remarks:**
Flag # 1-107, Photo # 2

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | = Total Cover | | |

| Sapling/Shrub Stratum (Plot size: 15' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. Cornus amomum | 2 | ☑ | 100.0% | FACW |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 2 | = Total Cover | | |

| Herb Stratum (Plot size: 5' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. Phragmites australis | 100 | ☑ | 100.0% | FACW |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| 6. | 0 | ☐ | 0.0% | |
| 7. | 0 | ☐ | 0.0% | |
| 8. | 0 | ☐ | 0.0% | |
| 9. | 0 | ☐ | 0.0% | |
| 10. | 0 | ☐ | 0.0% | |
| | 100 | = Total Cover | | |

| Woody Vine Stratum (Plot size: ) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| | 0 | = Total Cover | | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That are OBL, FACW, or FAC: | 2 | (A) |
| Total Number of Dominant Species Across All Strata: | 2 | (B) |
| Percent of dominant Species That Are OBL, FACW, or FAC: | 100.0% | (A/B) |

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 102 | x 2 = | 204 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals: | 102 (A) | | 204 (B) |

Prevalence Index = B/A = 2.000

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☑ **Dominance Test is > 50%**
- ☑ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ◉ No ○

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 1-1W**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-3 | 10YR | 4/1 | 100% | | | | | | Silt Loam | |
| 3-11 | 10YR | 5/1 | 70% | 10YR | 4/4 | 30% | C | M | Clay Loam | |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ◉ No ○

Remarks:

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☑ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☑ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ◉ | No ○ | Depth (inches): | 6 |
| Water Table Present? | Yes ○ | No ◉ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ◉ | No ○ | Depth (inches): | |

**Wetland Hydrology Present?** Yes ◉ No ○

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

Remarks:

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** **2-1Ua**

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Flat

**Soil Map Unit Name:** Niagara silt loam, 0 to 4 percent slopes **Cover Type:** OF

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

**Hydrophytic Vegetation Present?** Yes ○ No ◉

**Hydric Soil Present?** Yes ◉ No ○

**Wetland Hydrology Present?** Yes ○ No ◉

**Is the Sampled Area within a Wetland?** Yes ○ No ◉

If yes, optional Wetland Site ID:

**Remarks:**
Flag # 2-8, Photo # 3

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15' Radius) | | | | |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | | = Total Cover | |

| Herb Stratum (Plot size: 5' Radius) | | | | |
|---|---|---|---|---|
| 1. Phragmites australis | 40 | ☑ | 24.4% | FACW |
| 2. Daucus carota | 30 | ☐ | 18.3% | UPL |
| 3. Cirsium arvense | 10 | ☐ | 6.1% | FACU |
| 4. Lolium perenne | 50 | ☑ | 30.5% | FACU |
| 5. Impatiens capensis | 30 | ☐ | 18.3% | FACW |
| 6. Lythrum salicaria | 2 | ☐ | 1.2% | FACW |
| 7. Picris sp. | 2 | ☐ | 1.2% | FACU |
| 8. | 0 | ☐ | 0.0% | |
| 9. | 0 | ☐ | 0.0% | |
| 10. | 0 | ☐ | 0.0% | |
| | 164 | | = Total Cover | |

| Woody Vine Stratum (Plot size: ) | | | | |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| | 0 | | = Total Cover | |

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**

| | Total % Cover of: | | Multiply by: |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 72 | x 2 = | 144 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 62 | x 4 = | 248 |
| UPL species | 30 | x 5 = | 150 |
| Column Totals: | 164 (A) | | 542 (B) |

Prevalence Index = B/A = 3.305

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☐ **Dominance Test is > 50%**
- ☐ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ○ No ◉

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 2-1Ua**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox Features % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-5 | 10YR | 4/2 | 100% | | | | | | Silt Loam | |
| 5-8 | 10YR | 6/1 | 100% | | | | | | Gravelly clay loam | Side casting from west flume |
| 8-14 | 2.5Y | 6/2 | 100% | | | | | | | Waste material |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ◉ No ○

Remarks:

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ○ | No ◉ | Depth (inches): | |
| Water Table Present? | Yes ◉ | No ○ | Depth (inches): | 14 |
| Saturation Present? (includes capillary fringe) | Yes ○ | No ◉ | Depth (inches): | |

**Wetland Hydrology Present?** Yes ○ No ◉

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

Remarks:

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** 2-1Ub

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Flat

**Soil Map Unit Name:** Fonda mucky silty clay loam **Cover Type:** OF

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

| | | | |
|---|---|---|---|
| **Hydrophytic Vegetation Present?** | Yes ○ | No ◉ | **Is the Sampled Area within a Wetland?** Yes ○ No ◉ |
| **Hydric Soil Present?** | Yes ◉ | No ○ | If yes, optional Wetland Site ID: |
| **Wetland Hydrology Present?** | Yes ○ | No ◉ | |

**Remarks:**
Flag # 2-41, Photo # 6

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---|---|---|
| 1. | 0 | ☐ 0.0% | |
| 2. | 0 | ☐ 0.0% | |
| 3. | 0 | ☐ 0.0% | |
| 4. | 0 | ☐ 0.0% | |
| 5. | 0 | ☐ 0.0% | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15' Radius)** | | | |
| 1. | 0 | ☐ 0.0% | |
| 2. | 0 | ☐ 0.0% | |
| 3. | 0 | ☐ 0.0% | |
| 4. | 0 | ☐ 0.0% | |
| 5. | 0 | ☐ 0.0% | |
| | 0 | = Total Cover | |
| **Herb Stratum (Plot size: 5' Radius)** | | | |
| 1. Phragmites australis | 60 | ☑ 37.0% | FACW |
| 2. Lolium perenne | 70 | ☑ 43.2% | FACU |
| 3. Trifolium pratense | 30 | ☐ 18.5% | FACU |
| 4. Solidago canadensis | 2 | ☐ 1.2% | FACU |
| 5. | 0 | ☐ 0.0% | |
| 6. | 0 | ☐ 0.0% | |
| 7. | 0 | ☐ 0.0% | |
| 8. | 0 | ☐ 0.0% | |
| 9. | 0 | ☐ 0.0% | |
| 10. | 0 | ☐ 0.0% | |
| | 162 | = Total Cover | |
| **Woody Vine Stratum (Plot size: )** | | | |
| 1. | 0 | ☐ 0.0% | |
| 2. | 0 | ☐ 0.0% | |
| | 0 | = Total Cover | |

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 60 | x 2 = | 120 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 102 | x 4 = | 408 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals: | 162 (A) | | 528 (B) |

Prevalence Index = B/A = 3.259

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☐ **Dominance Test is > 50%**
- ☐ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ○ No ◉

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 2-1Ub**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-6 | 10YR | 3/1 | 100% | | | | | | Loam | |
| 6-11 | 10YR | 4/2 | 97% | 10YR | 4/3 | 3% | C | M | Silt | |
| 11-14 | 10YR | 7/1 | 40% | 10YR | 5/2 | 60% | D | M | | Mixed soil/Waste material |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ◉ No ○

Remarks:

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

**Wetland Hydrology Present?** Yes ○ No ◉

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

Remarks:

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** 2-1W

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Flat

**Soil Map Unit Name:** Niagara silt loam, 0 to 4 percent slopes **Cover Type:** EW

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

**Hydrophytic Vegetation Present?** Yes ◉ No ○

**Hydric Soil Present?** Yes ◉ No ○

**Wetland Hydrology Present?** Yes ◉ No ○

**Is the Sampled Area within a Wetland?** Yes ◉ No ○

If yes, optional Wetland Site ID:

**Remarks:**
Flag # 2-8, Photos # 4-5

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15' Radius) | | | | |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | | = Total Cover | |

| Herb Stratum (Plot size: 5' Radius) | | | | |
|---|---|---|---|---|
| 1. Typha latifolia | 10 | ☐ | 5.6% | OBL |
| 2. Polygonum pensylvanicum | 70 | ☑ | 39.5% | FACW |
| 3. Phragmites australis | 50 | ☑ | 28.2% | FACW |
| 4. Populus deltoides | 30 | ☐ | 16.9% | FAC |
| 5. Panicum sp. | 15 | ☐ | 8.5% | FAC |
| 6. Eleocharis sp. | 2 | ☐ | 1.1% | FACW |
| 7. | 0 | ☐ | 0.0% | |
| 8. | 0 | ☐ | 0.0% | |
| 9. | 0 | ☐ | 0.0% | |
| 10. | 0 | ☐ | 0.0% | |
| | 177 | | = Total Cover | |

| Woody Vine Stratum (Plot size: ) | | | | |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| | 0 | | = Total Cover | |

**Dominance Test worksheet:**

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 10 | x 1 = | 10 |
| FACW species | 122 | x 2 = | 244 |
| FAC species | 45 | x 3 = | 135 |
| FACU species | 0 | x 4 = | 0 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals: | 177 (A) | | 389 (B) |

Prevalence Index = B/A = 2.198

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☑ **Dominance Test is > 50%**
- ☑ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ◉ No ○

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 2-1W**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox Features % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-4 | 10YR | 3/1 | 100% | | | | | | Silt Loam | |
| 4-20 | 10YR | 7/1 | 100% | | | | | | | Waste material |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ◉ No ○

Remarks:

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☑ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☑ FAC-Neutral Test (D5)

**Field Observations:**

| | | | | |
|---|---|---|---|---|
| Surface Water Present? | Yes ◉ | No ○ | Depth (inches): | 2 |
| Water Table Present? | Yes ○ | No ◉ | Depth (inches): | |
| Saturation Present? (includes capillary fringe) | Yes ○ | No ◉ | Depth (inches): | |

**Wetland Hydrology Present?** Yes ◉ No ○

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

Remarks:

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** 2-2U

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Flat

**Soil Map Unit Name:** Fonda mucky silty clay loam **Cover Type:** OF

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

| | | | |
|---|---|---|---|
| **Hydrophytic Vegetation Present?** | Yes ○ | No ◉ | **Is the Sampled Area within a Wetland?** Yes ○ No ◉ |
| **Hydric Soil Present?** | Yes ○ | No ◉ | If yes, optional Wetland Site ID: |
| **Wetland Hydrology Present?** | Yes ○ | No ◉ | |

**Remarks:**
Flag # 2-19, Photo # 8

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | | **= Total Cover** | |

| Sapling/Shrub Stratum (Plot size: 15' Radius) | | | | |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | | **= Total Cover** | |

| Herb Stratum (Plot size: 5' Radius) | | | | |
|---|---|---|---|---|
| 1. Trifolium hybridum | 70 | ☑ | 34.1% | FACU |
| 2. Phragmites australis | 60 | ☑ | 29.3% | FACW |
| 3. Lolium perenne | 40 | ☐ | 19.5% | FACU |
| 4. Poa pratensis | 30 | ☐ | 14.6% | FACU |
| 5. Cirsium vulgare | 5 | ☐ | 2.4% | FACU |
| 6. | 0 | ☐ | 0.0% | |
| 7. | 0 | ☐ | 0.0% | |
| 8. | 0 | ☐ | 0.0% | |
| 9. | 0 | ☐ | 0.0% | |
| 10. | 0 | ☐ | 0.0% | |
| | 205 | | **= Total Cover** | |

| Woody Vine Stratum (Plot size: ) | | | | |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| | 0 | | **= Total Cover** | |

**Dominance Test worksheet:**

| | | |
|---|---|---|
| Number of Dominant Species That are OBL, FACW, or FAC: | 1 | (A) |
| Total Number of Dominant Species Across All Strata: | 2 | (B) |
| Percent of dominant Species That Are OBL, FACW, or FAC: | 50.0% | (A/B) |

**Prevalence Index worksheet:**

| | Total % Cover of: | | Multiply by: |
|---|---|---|---|
| **OBL species** | 0 | x 1 = | 0 |
| **FACW species** | 60 | x 2 = | 120 |
| **FAC species** | 0 | x 3 = | 0 |
| **FACU species** | 145 | x 4 = | 580 |
| **UPL species** | 0 | x 5 = | 0 |
| **Column Totals:** | 205 | **(A)** | 700 **(B)** |

Prevalence Index = B/A = 3.415

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☐ **Dominance Test is > 50%**
- ☐ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ○ No ◉

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 2-2U**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-10 | 10YR | 3/1 | 100% | | | | | | loamy gravel | |
| 10-18 | 10YR | 3/2 | 80% | 10YR | 6/1 | 10% | C | M | | waste material |
| | | | | 7.5YR | 5/4 | 10% | C | M | | waste material |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ○ No ◉

Remarks:

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

**Wetland Hydrology Present?** Yes ○ No ◉

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

Remarks:

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft)

**Project/Site:** LCP Bridge Street Site-Drainage Spoil Area **City/County:** Geddes/Onondaga **Sampling Date:** 17-Aug-11

**Applicant/Owner:** Honeywell **State:** NY **Sampling Point:** 2-2W

**Investigator(s):** J. McMullen, S. Sheridan **Landform (hillslope, terrace, etc.):** Flat

**Soil Map Unit Name:** Fonda mucky silty clay loam **Cover Type:** EW

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

**Are Vegetation** ☐ **, Soil** ☐ **, or Hydrology** ☐ **significantly disturbed?** **Are "Normal Circumstances" present?** Yes ◉ No ○

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

## Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

**Hydrophytic Vegetation Present?** Yes ◉ No ○

**Hydric Soil Present?** Yes ◉ No ○

**Wetland Hydrology Present?** Yes ◉ No ○

**Is the Sampled Area within a Wetland?** Yes ◉ No ○

If yes, optional Wetland Site ID:

**Remarks:**
Flag # 2-19, Photo # 9

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | = Total Cover | | |

| Sapling/Shrub Stratum (Plot size: 15' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| 3. | 0 | ☐ | 0.0% | |
| 4. | 0 | ☐ | 0.0% | |
| 5. | 0 | ☐ | 0.0% | |
| | 0 | = Total Cover | | |

| Herb Stratum (Plot size: 5' Radius) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. Phragmites australis | 90 | ☑ | 76.3% | FACW |
| 2. Populus deltoides | 15 | ☐ | 12.7% | FAC |
| 3. Phytolacca americana | 2 | ☐ | 1.7% | FACU |
| 4. Erechtites hieraciifolia | 2 | ☐ | 1.7% | FACU |
| 5. Panicum sp. | 2 | ☐ | 1.7% | FAC |
| 6. Polygonum pensylvanicum | 5 | ☐ | 4.2% | FACW |
| 7. Solanum dulcamara | 2 | ☐ | 1.7% | FAC |
| 8. | 0 | ☐ | 0.0% | |
| 9. | 0 | ☐ | 0.0% | |
| 10. | 0 | ☐ | 0.0% | |
| | 118 | = Total Cover | | |

| Woody Vine Stratum (Plot size: ) | Absolute % Cover | Dominant Species? | Rel.Strat. Cover | Indicator Status |
|---|---|---|---|---|
| 1. | 0 | ☐ | 0.0% | |
| 2. | 0 | ☐ | 0.0% | |
| | 0 | = Total Cover | | |

**Dominance Test worksheet:**

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

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

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 95 | x 2 = | 190 |
| FAC species | 19 | x 3 = | 57 |
| FACU species | 4 | x 4 = | 16 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals: | 118 (A) | | 263 (B) |

Prevalence Index = B/A = 2.229

**Hydrophytic Vegetation Indicators:**

- ☐ **Rapid Test for Hydrophytic Vegetation**
- ☑ **Dominance Test is > 50%**
- ☑ **Prevalence Index is ≤3.0** [1]
- ☐ **Morphological Adaptations** [1] **(Provide supporting data in Remarks or on a separate sheet)**
- ☐ **Problematic Hydrophytic Vegetation** [1] **(Explain)**

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

**Hydrophytic Vegetation Present?** Yes ◉ No ○

**Remarks: (Include photo numbers here or on a separate sheet.**

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

## Soil

**Sampling Point: 2-2W**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix Color (moist) | | Matrix % | Redox Features Color (moist) | | Redox % | Type [1] | Loc[2] | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 0-4 | 10YR | 3/1 | 100% | | | | | | Loam | |
| 4-18 | 10YR | 7/1 | 100% | | | | | | | Waste material-clayey |

[1] Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3) (except in MLRA 143)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Muck Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6) (Drop in LRR R?
- ☐ Dark Surface (S7) (MLRA 149B of LRR S)
- ☐ Polyvalue Below Surface (S8) (LRR R, S)
- ☐ Thin Dark Surface (S9) (LRR R, S)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ 2 cm Muck (A10) (LRR K, L, S)
- ☐ Coast Prairie Redox (A16) (LRR K, L, R)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Dark Surface (S7) (LRR K, L)
- ☐ Polyvalue Below Surface (S8) (LRR K, L)
- ☐ Thin Dark Surface (S9) (LRR K, L)
- ☐ Iron-Manganese Masses (F12)
- ☐ Piedmont Floodplain Soils (F19)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type:

Depth (inches):

**Hydric Soil Present?** Yes ◉ No ○

Remarks:

## Hydrology

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☑ Water Marks (B1)
- ☑ Sediment Deposits (B2)
- ☐ Drift deposits (B3)
- ☑ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☑ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ○ No ◉ Depth (inches):

Water Table Present? Yes ○ No ◉ Depth (inches):

Saturation Present? (includes capillary fringe) Yes ○ No ◉ Depth (inches):

**Wetland Hydrology Present?** Yes ◉ No ○

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

Remarks: