EARTH DIMENSIONS, INC.

Soil and Hydrogeologic Investigations • Wetland Delineations
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Project Code: W17I13

November 25, 2013

Mr. Dan Ludwig
Sealand Contractors
85 High Tech Drive
Rush, New York 14543

RECEIVED
DEC 12 2013
TOWN OF VICTOR
PLANNING BOARD

RE: Pinnacle Athletic Campus
Response to Town of Victor Comments

Dear Mr. Ludwig:

At your request, we are offering the following response to comments prepared by Environmental Design and Research (EDR) on behalf of the Town of Victor relative to the Earth Dimensions, Inc. (EDI) wetland delineation report dated October 15, 2013. The items listed in the Notice of Incomplete Application are written in **bold** and our responses follow in regular font:

Comment 1: Page 1 – Recommend including in the Introduction under Section 1 (second paragraph), the need for Section 401 of the Clean Water Act Water Quality Certification (administered by NYSDEC) and Article 15 (NYS protected streams and waterways) under the NYS Environmental Conservation Law.

RESPONSE: Although the wetland delineation report is intended to identify the regulated resources on site rather than the need for project specific permits, we understand the intent of this comment is to clarify that the various authorities which may apply to water resources at the site. We have therefore revised this sentence to read as follows: "The investigation was designed to facilitate a determination of the extent of U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) jurisdiction over the project area pursuant to Sections 404 and 401 of the Clean Water Act and Articles 24 (Freshwater Wetlands) and 15 (Classified Streams) of the New York State Environmental Conservation Law "

Comment 2: Page 10 – Please confirm that the updated 2013 National Wetland Plant List was used.

RESPONSE: The 2013 National Wetland Plant List was used to complete this study.

Comment 3: Page 15 – Third paragraph states that Irondequoit Creek is a Traditionally Navigable Waterway (TNW). In fact, Irondequoit Creek is not a TNW. The TNW designation in this watershed begins at the terminus of Irondequoit Creek at Irondequoit Bay and includes the entire Bay.

RESPONSE: Agreed. The report has been revised as follows: "As noted on Figure 7 (Site Drainage Map), the site drains to the northwest via two (2) unnamed tributaries to Irondequoit Creek, which in turn flows into Irondequoit Creek, which flows into Irondequoit Bay, a traditionally navigable water."

Comment 4: There is a discrepancy between the numbers of wetlands that EDI deems jurisdictional/non-jurisdictional. On page 16, first paragraph, it states that "nineteen (18) of the twenty (20) wetland features" are believed to be isolated (non-jurisidictional). Please confirm change to "eighteen (18)".

RESPONSE: This error was in an initial draft of the report which was corrected before the report was finalized and submitted to USACE. Unfortunately, it appears the draft is the version submitted to the Town. We have attached the final report which includes the revisions noted in this response letter.

Comment 5: On page 16, Item 2 – A 50 foot adjacent area for the two C(t) state protected streams identified on this site is mentioned. New York State protected streams (Article 15) do not have a regulated 50 food adjacent area. A Protection of Waters Permit is only required for disturbing the bed or banks of a designated protected stream. However, New York State protected wetlands (Article 24) do have a regulated 100 foot adjacent area. Note: Article 15 state protected streams are streams classified as AA, A, B or with the classification of C and a standard of (T) or (TS). The two C(t) streams identified on the project site are unnamed tributaries of Irondequoit Creek.

RESPONSE: We agree that Article 15 regulates the bed and banks of a protected stream. New York Conservation Law defines banks as follows: **"Banks"** means that land area immediately adjacent to and which slopes toward the bed of a watercourse and which is necessary to maintain the integrity of the watercourse. A bank will not be considered to extend more than 50 feet horizontally from the mean high water line; with the following exception: Where a generally uniform slope of 45 degrees (100%) or greater adjoins the bed of a watercourse, the bank is extended to the crest of the slope or the first definable break in slope, either a natural or constructed (road, or railroad grade) feature lying generally parallel to the watercourse.

Comment 6: Additionally, on Page 16, Item 2 – The report states that no wetlands were found in the Phase I portion of the project site. On July 3, 2013, EDI conducted a site visit identifying approximate locations of wetlands throughout the site. A small wetland (potentially isolated) with evidence of hydrology dominated by *Typha latifolia* (broad leaf cattail) was observed in the eastern portion of the project site amongst the area EDI identified as successional old field on Figure 5 (See Attachment A – photo 1). If EDI feels that this area is not wetland (jurisdictional or isolated) then routine data forms should be completed at this location to support that conclusion and discussed in the report. EDI Data forms D1 and D2, according to Figure 6 of the EDI report, wet taken to the west of this

area.

RESPONSE: EDI did not identify any areas as described. Data point D1 was used to characterize the community dominating the successional old field. Photos 1 and 3 of the wetland delineation report depict this area of the site from several angles. The wetland delineation report has been submitted to USACE with a request for a jurisdictional determination and wetland boundary confirmation. A copy of the Approved Jurisdictional Determination will be provided once received.

Comment 7: EDR also observed potentially isolated wetlands within the former mining operations area located within the Phase I boundary. These wetlands exhibit similar characteristics to the EDI delineated wetlands in the southern portion of the property. EDR recommends that this area be included in the delineation and an isolated determination from the Corps be obtained during the Jurisdictional Determination as suggested by EDI on Page 16 of their report. Again, if EDI feels that the water features in this area are not wetlands (jurisdictional or isolated) then routine data forms should be provided to support that conclusion.

RESPONSE: The entire 94 acre site is addressed in the wetland delineation report. At the time of the investigation the referenced area was active. There were no areas of potential wetland present as described above. As indicated, the report has been submitted to USACE and EDI will work through the Jurisdictional Determination process and provide the Town with the Approved Jurisdictional Determination and Wetland Boundary Confirmation as soon as it becomes available.

Comment 8: EDR observed a man-made ditch flowing east out of EDI wetland W3 and continuing off-site (see Attachment A, photos 2-3). There is no mention of this drainage in the report. Please provide more information/data to support the proposed isolation determination for this wetland.

RESPONSE: EDI did not note such a drainage feature. Again, we will work through the Jurisdictional Determination process with USACE and provide the Approved Jurisdictional Determination and Wetland Boundary confirmation once it has been issued.

Comment 9: EDR observed riparian wetlands along the two C(t) streams identified as Drainage 1 and Drainage 2 of the EDI report. However, EDI did not include the limits of these wetlands and streams in the report. Currently, the limits of the streams are indicated with a single line with flow directional markers. EDI strongly recommends including the delineation of all stream channels and any adjacent wetlands of these areas. Forested wetlands were observed along both of these streams during the EDI site visit (see Attachment A, photos 5-10). As indicated by EDI in the report, these two streams are regulated under Article 15 of the NYS ECL and Section 404 of the Clean Water Act as Waters of the U.S. These delineated areas should then also be included in the jurisdictional determination as suggested by EDI in the Recommendations section of their report. In

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addition, it is EDR's professional opinion that Drainage 1 and Drainage 2 are both perennial streams rather than intermittent streams as indicated in EDI's report.

RESPONSE: EDI noted riparian wetlands in two locations along the referenced streams. The first location is delineated as Wetland 1 and includes the stream segment and adjacent wetland. The second area noted was on the north side of the closed landfill located to the south and east of the project site (between landfill and bike path). EDI located this area of wetland but it was determined that it was located completely off site after downloading the GPS data. The remaining stream segments were not found to contain any riparian wetlands. USACE generally requires that linear water features be depicted and described according to width, depth, substrate, etc., which EDI outlined in the table contained in the executive summary. We have revised the report to indicate that the streams are perennial.

Comment 10: The location of Drainage 3 does not seem to be indicated on Figure 6.

RESPONSE: Drainage 3 consists of a man made ditch which connects Wetland W11 to Drainage 2 and is depicted on Figure 6.

Comment 11: EDR recommends that EDI include a figure in the report that overlays their delineated wetlands boundary over the limits of the Phase 1 boundary since there is a conclusion being made that there are no wetlands within the Phase I boundary.

RESPONSE: The Phase I boundary has been added to Figure 6 of the report.

If you have any questions or would like any further information, please contact our office at (716) 655-1717 or e-mail slivingstone@earthdimensions.com.

Very truly yours,
Earth Dimensions, Inc.

Scott J. Livingstone
Senior Soil Scientist

Encl.

Wetland Delineation Report

for

Pinnacle Athletic Campus

Town of Victor
Ontario County, New York

for

Sealand Contractors

EARTH DIMENSIONS, INC.
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October 15, 2013
Revised November 25, 2013
EDI Project Code: W17I13

REPORT SUMMARIZING
THE RESULTS OF
A WETLAND DELINEATION SURVEY OF

PINNACLE ATHLETIC CAMPUS

Prepared for Submission to

U.S. ARMY CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207

Prepared by

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1091 JAMISON ROAD
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for

DAN LUDWIG
SEALAND CONTRACTORS
85 HIGH TECH DRIVE
RUSH, NY 14543

DATE PREPARED

October 15, 2013
Revised November 25, 2013
Project Code: W17I13

PROJECT INFORMATION

Project Name	Pinnacle Athletic Campus
Street Address	Phillips Road
SBL	14.00-1-19.110, 14.00-1-19.120, and 14.00-1-19.30
Town	Victor
County	Ontario
State	New York
Latitude/Longitude (NAD83)	43.00517° N, 77.45500° W
Investigation Area	94± Acres
USGS 7.5 Minute Topographical Map	Fairport Quadrangle
Consultant	Earth Dimensions, Inc. 1091 Jamison Road Elma, New York 14059
Point of Contact	Scott Livingstone (716) 655-1717
Engineer	NA
Property Owner	Genesee Sand and Gravel LLC
Waterway	Unnamed tributaries to Irondequoit Creek
Hydrologic Unit Code	04140101
Authority	Section 404
Permit/ Letter Being Requested	Jurisdictional Determination

ACKNOWLEDGMENTS

Sealand Contractors has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study for the Pinnacle Athletic Campus located in the Town of Victor, County of Ontario, and State of New York. EDI would like to thank Copy Market, Inc. for providing the duplicating and binding services.

Duplicated onto recycled paper

EXECUTIVE SUMMARY

Sealand Contractors has proposed the development of a 94± acre site located to the south of Main Street Fishers and on the west side of Phillips Road in the Town of Victor, County of Ontario, and State of New York. Sealand Contractors has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (Corps) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Article 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

The project is proposed to be constructed in two (2) phases. Phase I is proposed to be constructed in the northern half of the property while Phase II is proposed in the southern and western portions. It is EDI's professional opinion that no federal jurisdictional wetlands were found on the Phase I side of the site and the project may continue without a Section 404 permit.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction.

EDI applied methodology specified by the *Corps of Engineers Wetlands Delineation Manual* (January 1987) and *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (October 2009) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified twenty (20) wetland areas totaling 4.167± acres, two (2) class C(t) tributaries to Irondequoit Creek and one (1) linear ditch draining wetland W11 within the investigation area. The identification number of the wetlands, waterways and their acreage and boundary flags are as follows:

TABLE 1: Wetlands & Waterways Summary

Wetland/Stream Identification #	Geographic Center (NAD83)		Boundary Flags	Total Acreage On-Site/Linear feet	Wetland/Stream Type	Jurisdictional Determination
	Longitude	Latitude				
Wetland 1	77.45364	43.00225	W1-1 through W1-15	0.38±	Shrub-swamp (PSS)	**Jurisdictional**
Wetland 2	77.45579	43.00294	W2-1 through W2-6	0.07±	Shrub-swamp (PSS)	Isolated
Wetland 3	77.45831	43.00578	W3-1 through W3-9	0.19±	Shrub-swamp (PSS)	Isolated
Wetland 4	77.46032	43.00625	W4-1 through W4-8	0.07±	Shrub-swamp (PSS)	Isolated
Wetland 5	77.46144	43.00533	W5-1 through W5-11	0.29±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 6	77.46230	43.00530	W6-1 through W6-4	0.02±	Shrub-swamp (PSS)	Isolated
Wetland 7	77.46136	43.00506	W7-1 through W7-5	0.08±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 8	77.45854	43.00138	W8-1 through W8-9	0.23±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 9	77.45878	43.00143	W9-1 through W9-19	0.77±	Open Water	Isolated
Wetland 10	77.45894	43.00131	W10-1 through W10-4	0.02±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 11	77.45886	43.00253	W11-1 through W11-14	1.03±	Shallow Emergent Marsh (PEM)	**Jurisdictional**
Wetland 12	77.45904	43.00221	W12-1 through W12-21	0.54±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 13	77.45931	43.00266	W13-1 through W13-4	0.02±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 14	77.45986	43.00271	W14-1 through W14-7	0.03±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 15	77.45968	43.00285	W15-1 through W15-4	0.02±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 16	77.46010	43.00257	W16-1 through W16-4	0.02±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 17	77.46017	43.00228	W17-1 through W17-5	0.04±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 18	77.46023	43.00243	W18-1 through W18-4	0.007±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 19	77.46035	43.00250	W19-1 through W19-10	0.09±	Shallow Emergent Marsh (PEM)	Isolated
Wetland 20	77.46031	43.00209	W20-1 through W20-14	0.25±	Shallow Emergent Marsh (PEM)	Isolated
Drainage 1	77.46062	43.00113	N/A	1060.75±	Perennial Stream	Jurisdictional
Drainage 2	77.45360	43.00226	N/A	1548.82±	Perennial Stream	Jurisdictional
Drainage 3	77.45815	43.00288	N/A	167.76±	Ditch	Jurisdictional
Total Wetland Acreage:				**4.167 ±**		

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SECTION I
INTRODUCTION

Sealand Contractors has proposed the development of a 94± acre parcel to the south of Main Street Fishers and on the west side of Phillips Road in the Town of Victor, County of Ontario, and State of New York. The project has been given the name Pinnacle Athletic Campus and is located on USGS 7.5 minute quadrangle map indexed as Fairport/2002 DeLorme (Figure 1).

Sealand Contractors has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) jurisdiction over the project area pursuant to Sections 404 and 401 of the Clean Water Act and Articles 24 (Freshwater Wetlands) and 15 (Classified Streams) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual) and the *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the Pinnacle Athletic Campus project site.

SECTION II
SITE DESCRIPTION

The Pinnacle Athletic Campus project area is comprised of an irregular shaped investigation area on the west side of Phillips Road. The investigation area has a total acreage of 94± acres and is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Attachment A (Figure 6). The parcel is split by and old rail road bed which is now used as a bike/walking path and was previously used as a sand and gravel mine.

The natural topography of the Pinnacle Athletic Campus site is gently sloping to steep. The uplands within the investigation area consist of successional old field, successional shrubland, and successional northern hardwood communities. The wetland areas were found to consist of shrub-swamp and shallow emergent marsh communities. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2002).

SECTION III
PRELIMINARY DATA REVIEW

A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area.

EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

1. USGS 7.5 Minute Topographical Map

   Figure 1 depicts the Pinnacle Athletic Campus project site on the Fairport/2002 DeLorme quadrangle map. The figure depicts the gently sloping to steep sloping topography of the site. There are two (2) class C(t) streams located on the property, both of which are tributaries to Irondequoit Creek.

2. USFWS National Wetlands Inventory Map

   The National Wetlands Inventory (NWI) map obtained from the USFWS Wetland Mapper http://www.fws.gov/wetlands/Data/Mapper.html displays one (1) wetland labeled as ***PUBFx** within the investigation area. The wetland can be decoded as: ***[P]** Palustrine, **[UB]** Unconsolidated bottom, **[F]** Semipermanently flooded, **[x]** excavated

3. Natural Resources Conservation Service Soils Map

Figure 3 presents the project area outlined on a copy of the Ontario County Soil Survey map from the U.S. Department of Agriculture Soil Survey. As shown on that figure, the investigation area has the following soil types:

Soil Conservation Service Legend

Designation	Description	Hydric Soil/ Inclusions?
5A	Wayland Sily Loam 0 to 3 percent slopes	Hydric Soil
35B	Odessa Silty Clay Loam 3 to 8 percent slopes	Inclusions Possible
36D	Schoharie Silty Clay Loam 15 to 25 percent slopes	Inclusions Unlikely
37A	Schoharie Silt Loam 0 to 3 percent slopes	Inclusions Unlikely
114B	Ontario Gravelly Loam 3 to 8 percent slopes	Inclusions Unlikely
114D	Ontario Gravelly Loam 15 to 25 percent slopes	Inclusions Unlikely
124A	Palmyra Fine Sandy Loam 0 to 3 percent slopes	Inclusions Unlikely
124B	Palmyra Fine Sandy Loam 3 to 8 percent slopes	Inclusions Unlikely
128C	Palmyra Gravelly Sandy Loam 8 to 15 percent slopes	Inclusions Unlikely
401D	Udorthents, refuse substratum 0 to 15 percent slopes	Inclusions Unlikely

PG Pits, Gravel and Sand

Odessa: These imperfectly drained soils have developed in reddish, calcareous, lake-laid clay and silt. They have the sequence of horizons typical of a Gray-Brown Podzolic soil, but they have very large amounts of clay in their subsoil and substratum. Because the materials are so fine textured, the soils must have appreciable slope to be even imperfectly drained.

Ontario: These well-drained medium-textured soils have clayey subsoils. They have developed on firm loam glacial till derived from sandstone and limestone material. They most commonly occur on drumlins but may occur also on undulating till plains. The Ontario series is derived from limestone and sandstone instead of from limestone and shale.

Palmyra: These well-drained high-lime soils have developed in glacial outwash gravel and sand. The rock material is mostly limestone with some sandstone. The soils occur on nearly level glacial outwash terraces and also on hilly or hummocky moraines and kames.

Schoharie: These fine-textured well drained to moderately well drained soils have developed from lake-laid clay and silt. They have well-developed Gray-Brown Podzolic profiles. They are slightly to medium acid in the upper part but calcareous at depths ranging from 24 to 36 inches. The very fine-textured material impedes movement of water. On gentler slopes parent material of the same kind as that for Schoharie soils has developed into soils of one of the more poorly drained series.

Udorthents: These soils formed in deep manmade cuts or fills. Most of these areas are near industrial sites, urban developments, or construction sites. These soils consist of various kinds of excavated earthy material that has been stockpiled for use as fill or topdressing, soils and rock material that has been trucked from other areas and leveled, or soils deposits that are left in areas that have been excavated or deeply scalped.

Wayland: These poorly drained soils are developing in neutral recent alluvium on the first bottom lands. The parent material is derived almost entirely from the high-lime soils of the nearby uplands. Material is added to the surface every year during floods. It is mapped as the poorly drained associate of the Chagrin series.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. Wayland soils have the potential for hydric inclusions and therefore may support wetland vegetation. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

4. NYSDEC Freshwater Wetlands Map

The NYSDEC Freshwater Wetlands map obtained from the online NYSDEC Environmental Resource Mapper displays no state jurisdictional wetlands within or adjacent to the investigation area. However, two (2) streams classified as C(t) were found within the investigation area. These are both regulated streams under Article 15 of the Environmental Conservation Law.

B. RESULTS OF AGENCY INFORMATION REVIEW

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted the depiction of a wetland on the NWI map (Figure 2), hydric soils and soils with potential hyric inclusions depicted within the project area as shown on the NRCS map (Figure 3). In addition, all four resource maps indicated the presence of several linear water courses within the investigation area. Therefore, it was considered necessary to perform a field investigation at the site in order to confirm the presence of federal and state protected wetlands. The methods specified in the *Corps of Engineers Wetlands Delineation Manual* (January 1987) and *Northcentral and Northeast Regional Supplement* (October 2009) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

SECTION IV

FIELD INVESTIGATION PROCEDURES

Step 1

EDI applied methodology specified by the *1987 Corps of Engineers Wetlands Delineation Manual* and *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the *Northcentral and Northeast Supplement*.

Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The *Northcentral and Northeast Supplement* defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41°F. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest. Based on this definition, the field work was performed during the growing season, although hydrophytic vegetation indicators were judged to be sufficient to perform the delineation. The field work was conducted on October 8 and 9, 2013.

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Attachment A and included in Attachment B, seventeen (17) data points were used to characterize the site.

Step 5

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the Northcentral and Northeast Regional Supplement, the quadrant sizes used for the vegetative strata were (i) a five-foot radius for herbs; (ii) a fifteen-foot radius for saplings and shrubs; and (iii) a 30-foot radius for trees and woody vines. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Corps Manual defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.2 feet in height are considered to be herbs.
Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.2 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)
Liana – A layer of vegetation in forested plant communities that consist of woody vines.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the *National List of Plant Species that Occur in Wetlands: Northeast (Region 1)* was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.
FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.
FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.
FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands, but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.
UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands, but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the *Northcentral and Northeast Regional Supplement* included in this report as Attachment B.

Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the *Northcentral and Northeast Regional Supplement*. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the *Field Indicators of*

Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Attachment B of this report.

Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Attachment B.

Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled "wetland delineation" and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-15, W2-1 through W2-6 and W3-1 through W3-9, W4-1 through W4-8, W5-1 through W5-11, W6-1 through W6-4, W7-1 through W7-5, W8-1 through W8-9, W9-1 through W9-19, W10-1 through W10-4, W11-1 through W11-14, W12-1 through W12-21, W13-1 through W13-4, W14-1 through W14-7, W15-1 through W15-4, W16-1 through W16-4, W17-1 through W17-5, W18-1 through W18-4, W19-1 through W19-10 and W20-1 through W20-14.

SECTION V
RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the Pinnacle Athletic Campus site located in the Town of Victor, County of Ontario, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study found twenty (20) wetlands totaling 4.167 ± acres present at Pinnacle Athletic Campus. Also, two (2) regulated class C(t) streams run through a portion of the property as tributaries to Irondequoit Creek.

General site maps are presented in Attachment A. Figure 3 shows the soil types mapped within the property. Field examination of the soil on the site showed moderate agreement to the published NRCS soil map (Figure 3). The site consisted primarily of gravel and sand pits.

Figure 5 depicts the vegetative communities as they currently exist. The uplands within the investigation area consist of successional old field, successional shrubland, and successional northern hardwood communities. The wetland areas were found to consist of shrub-swamp and shallow emergent marsh communities. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2002).

The successional old field community consisted of the following species: Canada goldenrod *(Solidago canadensis)*, Kentucky bluegrass *(Poa pratensis)*, mugwort *(Artemisia vulgaris)*, common dandelion *(Taraxacum officinale)*, Virginia strawberry *(Fragaria virginiana)*, bird's-foot trefoil *(Lotus corniculatus)*, wild chicory *(Cichorium intybus)*, honeysuckle *(Lonicera tatarica)*, cock-spur hawthorn *(Crataegus crus-gali)*, gray dogwood *(Cornus racemosa)*, multiflora rose *(Rosa multiflora)*, white avens *(Geum canadense)*, summer grape *(Vitis aestivalis)*, Russian olive *(Elaeagnus angustifolia)*, Queen Anne's Lace *(Daucus carota)*, calico aster *(Symphyotrichum lateriflorus)*, and upland bentgrass *(Agrostis perennans)*.

The successional shrubland community consisted of the following species: sweet crab apple *(Malus coronaria)*, green ash *(Fraxinus pennsylvanica)*, gray dogwood *(Cornus racemosa)*, honeysuckle *(Lonicera tatarica)*, Virginia strawberry *(Fragaria virginiana)*, annual bluegrass *(Poa annua)*, white avens *(Geum canadense)*, multiflora rose *(Rosa multiflora)*, mugwort *(Artemisia vulgaris)*, and Canada goldenrod *(Solidago canadensis)*.

The northern hardwoods community consisted of the following species: American basswood *(Tilia americana)*, staghorn sumac *(Rhus typhina)*, honeysuckle *(Lonicera tatarica)*, buckthorn *(Rhamnus cathartica)*, white avens *(Geum canadense)*, summer grape *(Vitis aestivalis)*, black locust *(Robinia pseudoacasia)*, trembling aspen *(Populus trembuloides)*, multiflora rose *(Rosa multiflora)*, mugwort *(Artemisia vulgaris)*, Canada goldenrod *(Solidago canadensis)*, Alleghany blackberry *(Rubus allegheniensis)*, common dandelion *(Taraxacum officinale)*, eastern woodland sedge *(Carex blanda)*, red oak *(Quercus rubra)*, eastern cottonwood *(Populus deltoides)*, shagbark hickory *(Carya ovata)*, cherry *(Prunus serotina)*, sugar maple *(Acer saccharum)*, Russian olive *(Elaeagnus angustifolia)*, green ash *(Fraxinus pennsylvanica)*, gray dogwood *(Cornus racemosa)*, Virginia strawberry *(Fragaria virginiana)*, sensitive fern *(Onocleus sensabilis)*, New York fern *(Thelypteris noveboracensis)*, and garlic mustard *(Alliaria petiolata)*.

The shallow emergent marsh community consisted of the following species: silky willow *(Salix sericea)*, silky dogwood *(Cornus amomum)*, black willow *(Salix nigra)*, narrow leaf cattail *(Typha angustifolia)*, spike rush *(Eleocharis acicularis)*, horsetail *(Equisetum hymale)*, calico aster *(Symphyotrichum lateriflorus)*, common reed *(Phragmites australis)*, trembling aspen *(Populus trembuloides)*, flat-top goldentop *(Euthamia gaminifolia)*, Canada rush *(Juncus canadense)*, and fox sedge *(Carex vulpinoidea)*

The scrub-shrub swamp community consisted of the following species: black willow *(Salix nigra)*, silky willow *(Salix sericea)*, silky dogwood *(Cornus amomum)*, Canada goldenrod *(Solidago canadensis)*, calico aster *(Symphyotrichum lateriflorus)*, horsetail *(Equisetum hymale)*,

flat-top goldentop *(Euthamia graminifolia)*, green ash *(Fraxinus pennsylvanica)*, common reed *(Phragmites australis)*, trembling aspen *(Populus trembuloides)*, water plantain *(Alisma subcordatum)*, poison ivy *(Toxicodendron radicans)*, bladder sedge *(Carex intumescens)*, fox sedge *(Carex vulpinoidea)*, reed canary grass *(Phalaris arundinacea)*, honeysuckle *(Lonicera tatarica)*, silver maple *(Acer saccharinum)*, swamp milkweed *(Asclepias incarnate)*, and summer grape *(Vitis aestivalis)*.

Hydrology is generally highly variable during a field investigation and accurate examinations of the landscape must be conducted to assure an accurate delineation. Three (3) identifiable drainages were mapped within the investigation area, as depicted on Figure 6.

As noted on Figure 7 (Site Drainage map), the site drains to the northwest via two (2) unnamed tributaries to Irondequoit Creek, which in turn flows into Irondequoit Creek, which then flows into Irondequoit Bay, a traditionally navigable water.

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Attachment A of this report. Data forms are included as Attachment B. Attachment C consists of an aerial photograph of the site. Attachment D includes representative photographs of the project area. Attachment E notes the references used during the preparation of this report and during the field investigation. Attachment F provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

SECTION VI
RECOMMENDATIONS

Twenty (20) wetland areas were identified during the course of a field investigation based upon the three parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and *Northcentral and Northeast Regional Supplement*. It is EDI's professional opinion that eighteen (18) of the twenty (20) wetland features identified do not have a connection to waters of the U.S. and would therefore be considered non-jurisdictional. Wetland W1 and W11 would be considered jurisdictional as they have a connection to a traditionally navigable waterway. USACE approaches their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

(1) Submit this report to USACE with a request for a wetland boundary confirmation and jurisdictional determination.

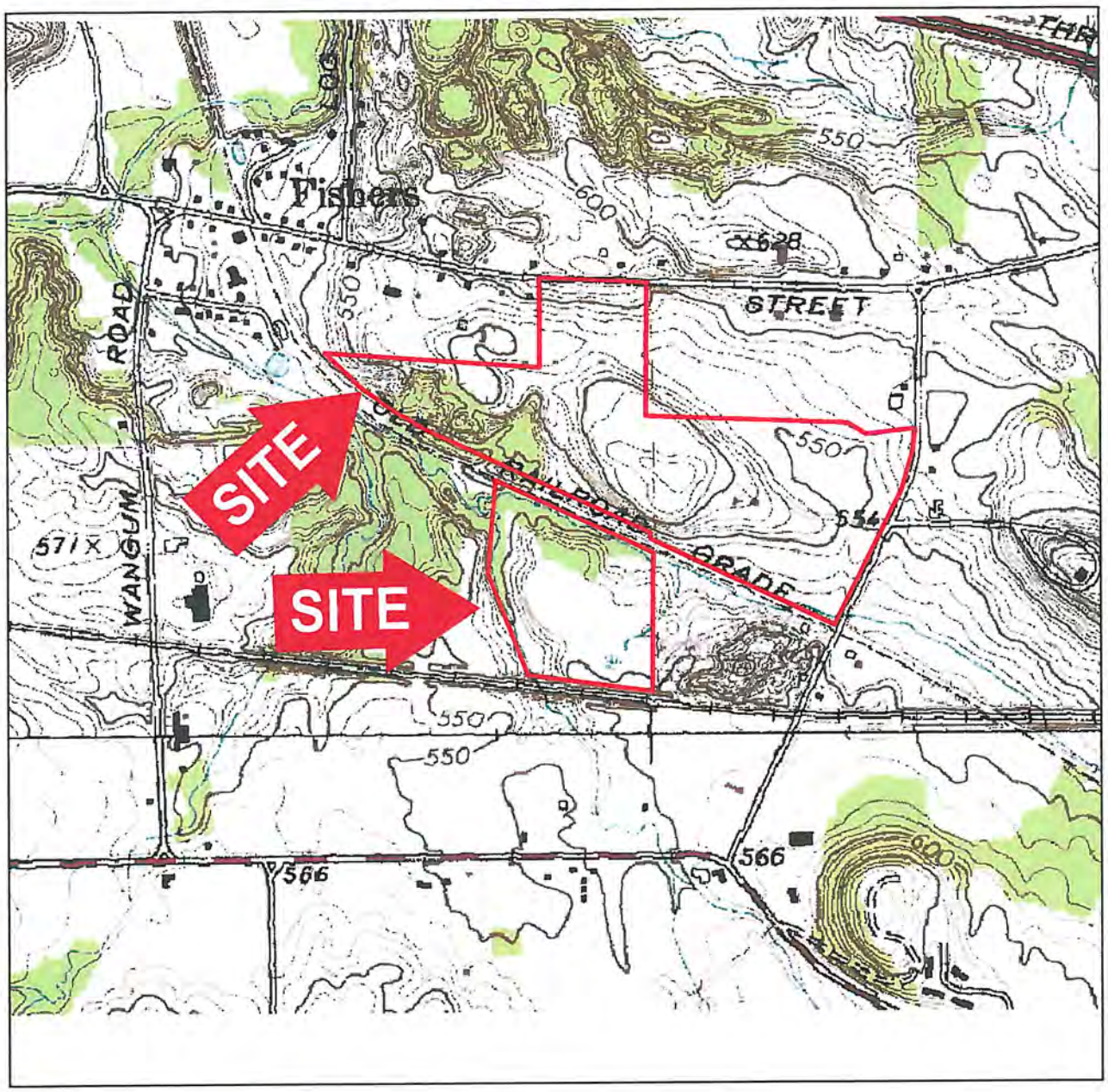
(2) If no impacts are proposed to federally regulated wetlands or state/federally regulated streams and the state regulated 50 foot adjacent area based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for a Section 404 Permit. EDI also believes that since no wetlands were found in the proposed Phase I area, that portion of the project may move forward without further coordination.

(3) If any federally jurisdictional wetland, state/federally jurisdictional stream or state regulated 50 foot adjacent areas are proposed to be impacted, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC.

Pinnacle Athletic Campus

ATTACHMENT A

Figures



EARTH DIMENSIONS, INC.
Soil & Hydrogeologic Investigations * Wetland Delineations
1091 Jamison Road, Elma NY 14059
(716) 655-1717 * Fax (716) 655-2915 www.earthdimensions.com

Figure 1: USGS 7.5 Minute Topographical Map
Fairport Quadrangle/ 2002 DeLorme

Pinnacle Athletic Campus
Town of Victor, Ontario County, New York

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Figure 2: National Wetlands Inventory Map
http://www.fws.gov/wetlands/Data/Mapper.html
Site visited 10/10/13

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Town of Victor, Ontario County, New York

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Figure 3: NRCS Ontario County Soil Survey Map
http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Site visited 10/10/13

Pinnacle Athletic Campus
Town of Victor, Ontario County, New York

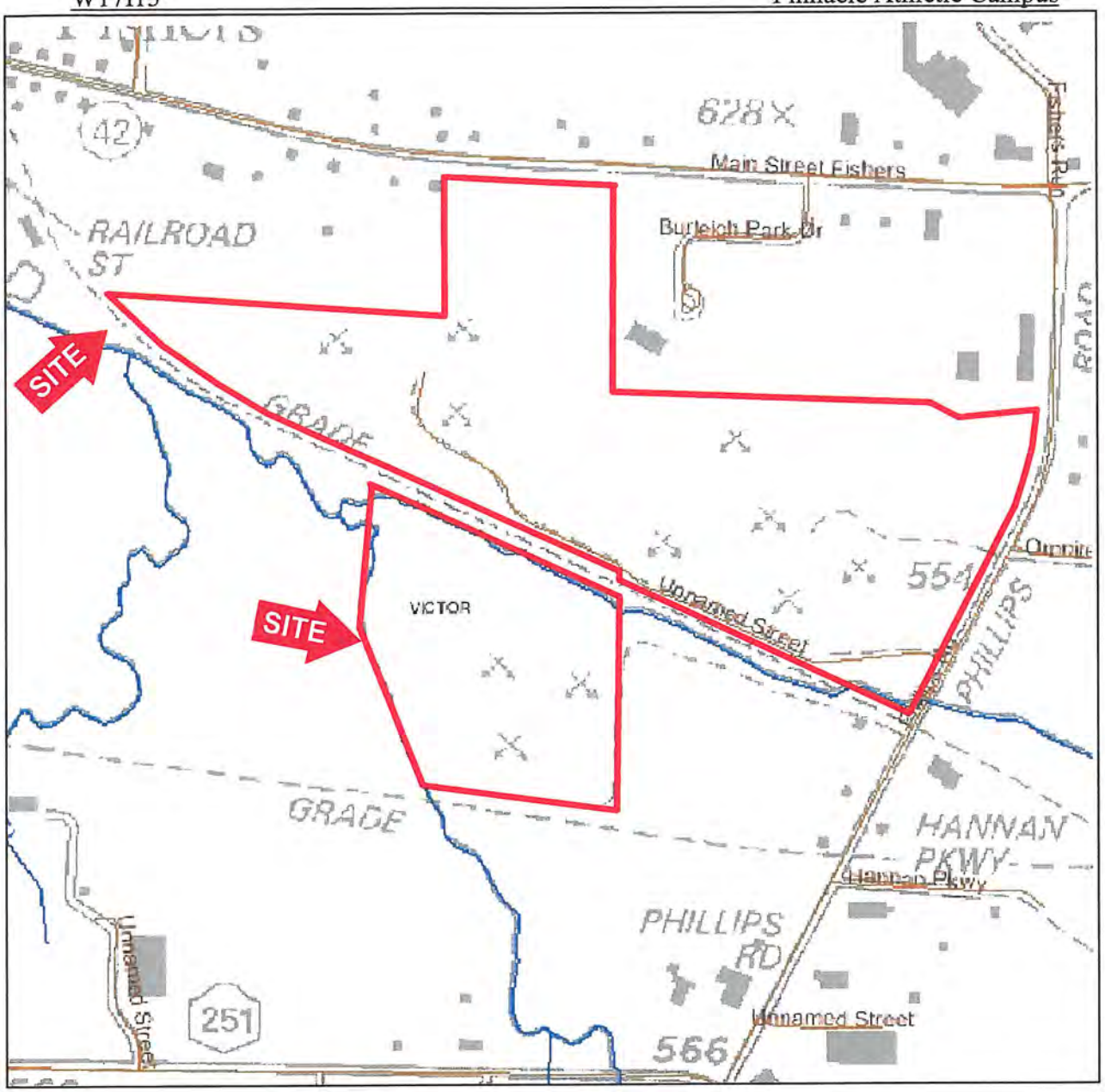

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Figure 4: NYSDEC Environmental Resource Mapper
http://www.dec.ny.gov/imsmaps/ERM/Viewer.htm
Site visited 10/10/13

Pinnacle Athletic Campus
Town of Victor, Ontario County, New York

Figure 5: General Vegetation Map

Town of Victor — Ontario County, New York

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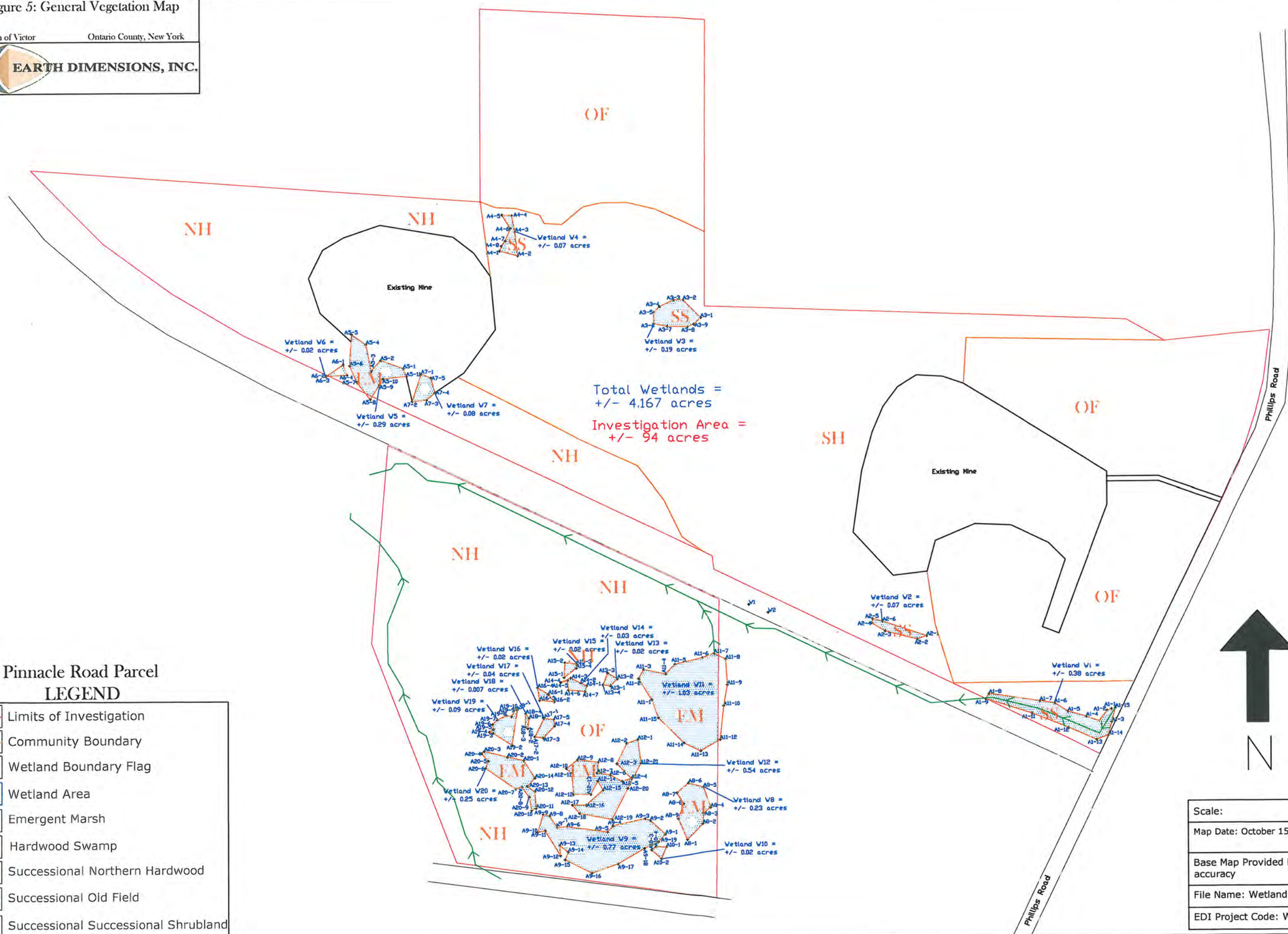


Pinnacle Road Parcel
LEGEND

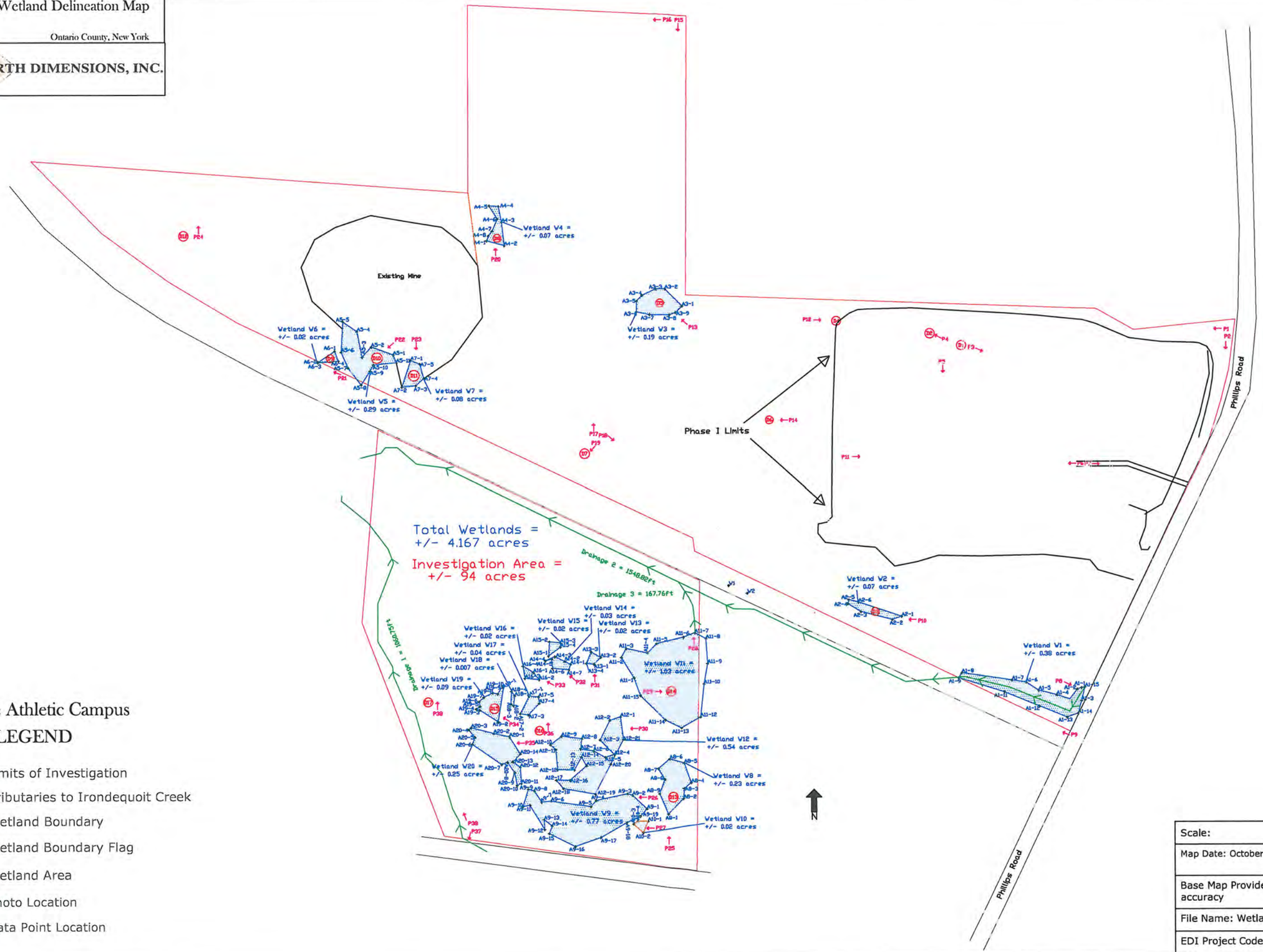
- Limits of Investigation
- Community Boundary
- W1-1 Wetland Boundary Flag
- Wetland Area
- EM Emergent Marsh
- SS Hardwood Swamp
- NH Successional Northern Hardwood
- OF Successional Old Field
- SH Successional Successional Shrubland

Scale:
Map Date: October 15, 2013/ ARS for EDI
Base Map Provided By: Garmin GPS 3-9 foot accuracy
File Name: Wetland Delineation Map.dwg
EDI Project Code: W17I13

Figure 6: Wetland Delineation Map

Town of Victor — Ontario County, New York

EARTH DIMENSIONS, INC.



Pinnacle Athletic Campus

LEGEND

- Limits of Investigation
- Tributaries to Irondequoit Creek
- Wetland Boundary
- Wetland Boundary Flag (V1-1)
- Wetland Area
- Photo Location
- Data Point Location (D1)

Scale:
Map Date: October 15, 2013/ ARS for EDI
Base Map Provided By: Garmin GPS 3-9 foot accuracy
File Name: Wetland Delineation Map.dwg
EDI Project Code: W17I13

Figure 6a: Wetland Delineation Map

Northeast Portion of Investigation Area

Town of Victor — Ontario County, New York

EARTH DIMENSIONS, INC.

Scale:
Map Date: October 15, 2013/ ARS for EDI
Base Map Provided By: Garmin GPS 3-9 foot accuracy
File Name: Wetland Delineation Map.dwg
EDI Project Code: W17I13

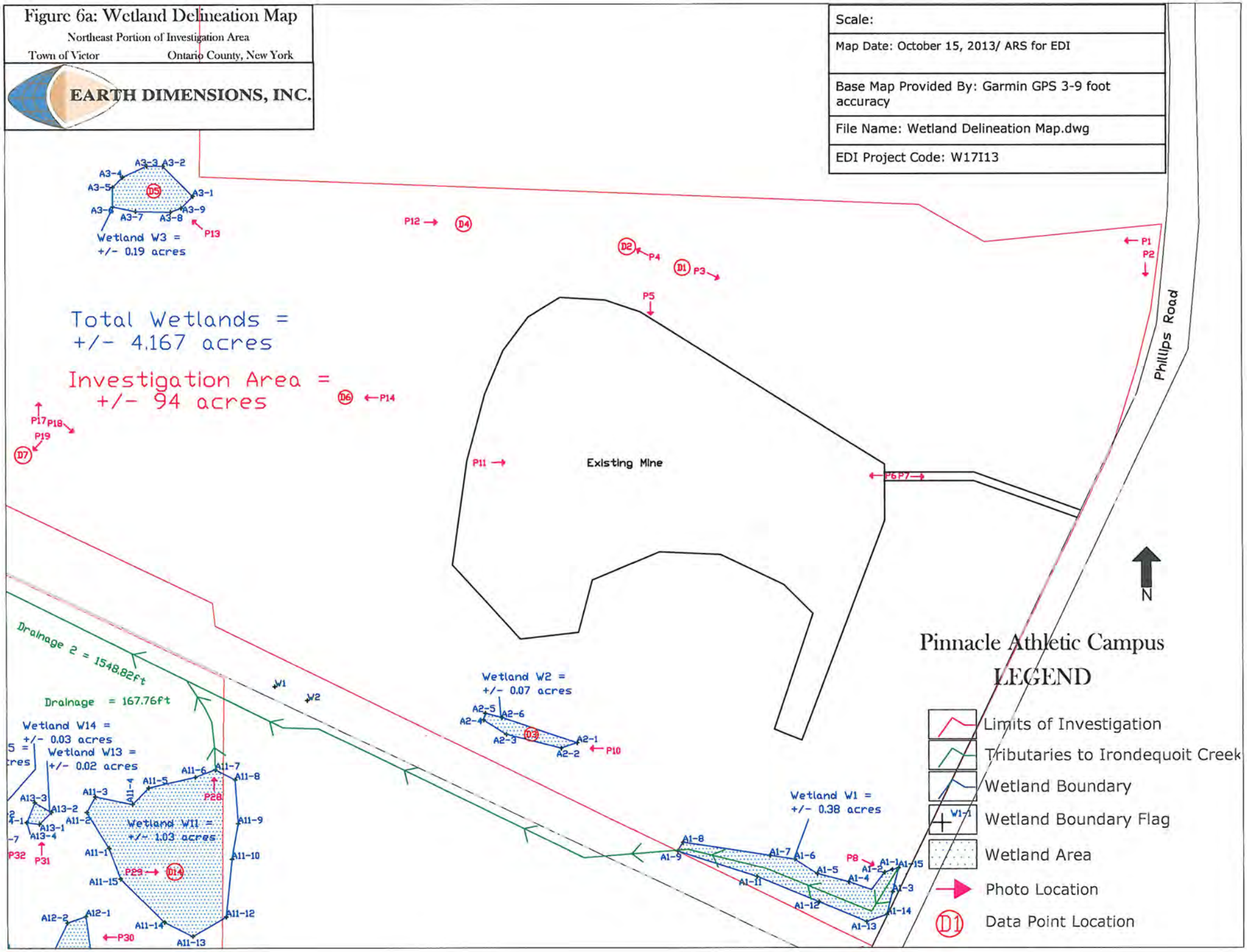


Figure 6b: Wetland Delineation Map

Northwest Portion of the Investigation Area

Town of Victor — Ontario County, New York

EARTH DIMENSIONS, INC.

Scale:	
Map Date: October 15, 2013/ ARS for EDI	
Base Map Provided By: Garmin GPS 3-9 foot accuracy	
File Name: Wetland Delineation Map.dwg	
EDI Project Code: W17I13	

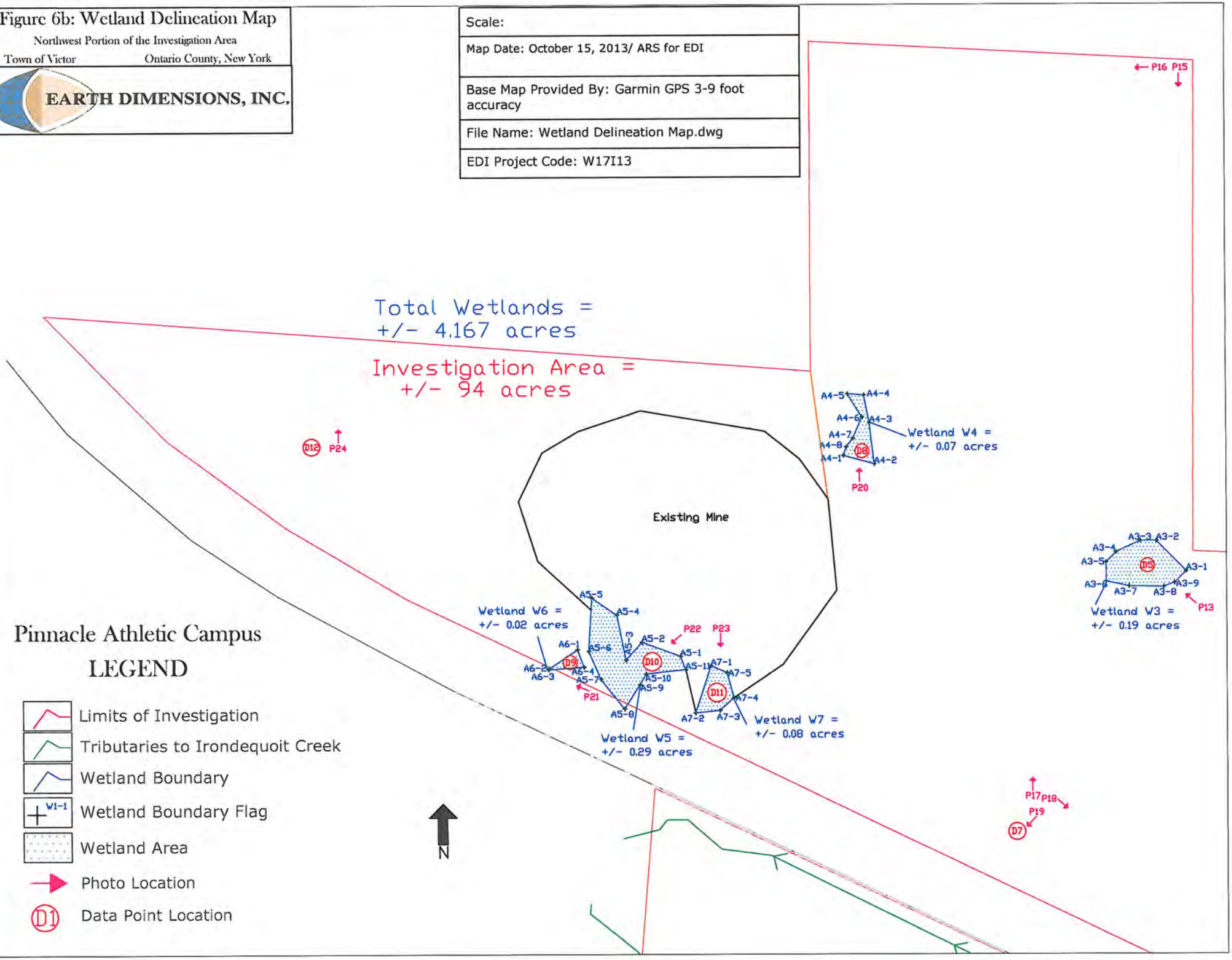
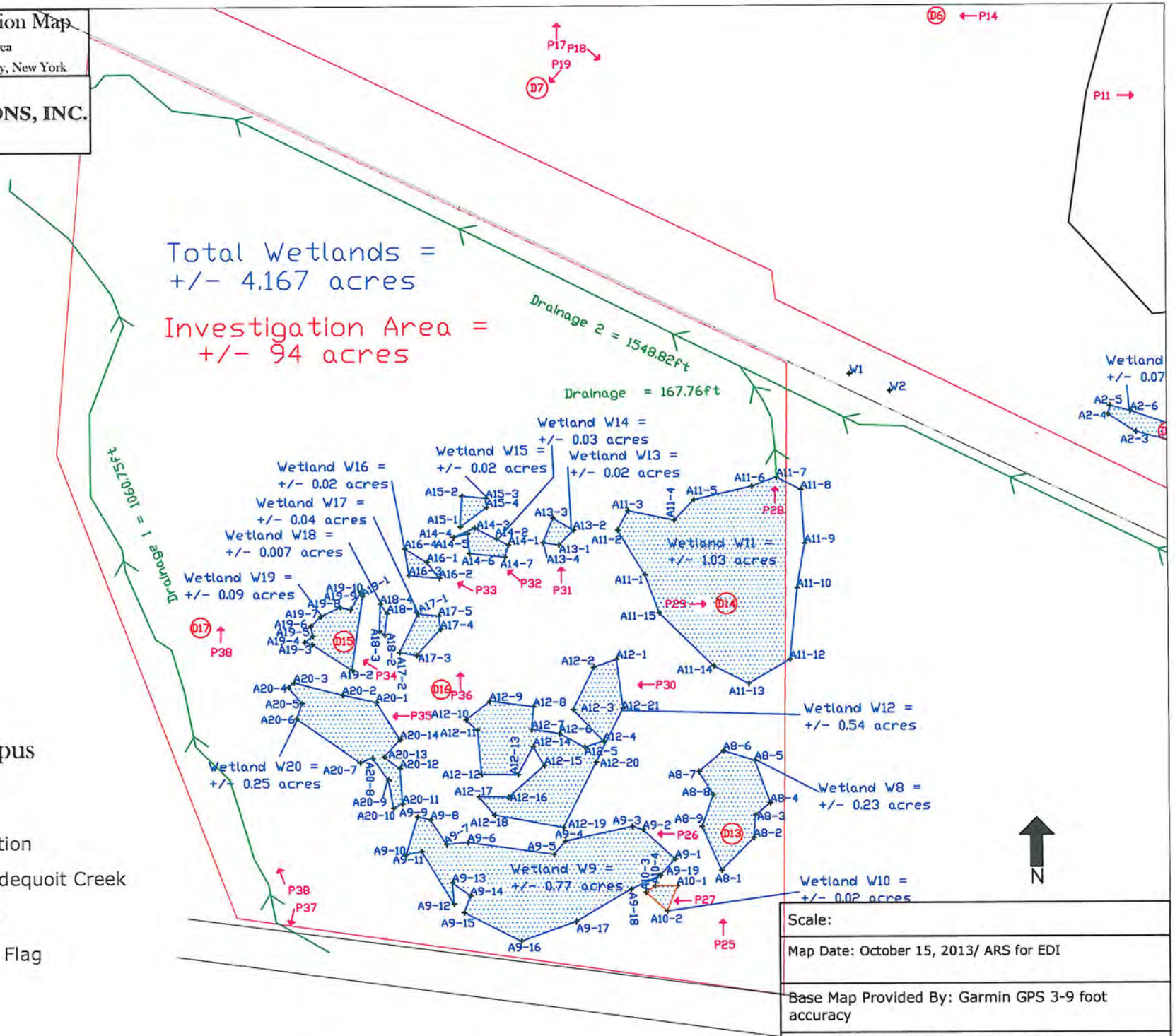


Figure 6c: Wetland Delineation Map

Southern Portion of Investigation area

Town of Victor — Ontario County, New York

EARTH DIMENSIONS, INC.



Pinnacle Athletic Campus

LEGEND

- Limits of Investigation
- Tributaries to Irondequoit Creek
- Wetland Boundary
- W1-1 Wetland Boundary Flag
- Wetland Area
- Photo Location
- D1 Data Point Location

Scale:	
Map Date: October 15, 2013/ ARS for EDI	
Base Map Provided By: Garmin GPS 3-9 foot accuracy	
File Name: Wetland Delineation Map.dwg	
EDI Project Code: W17I13	

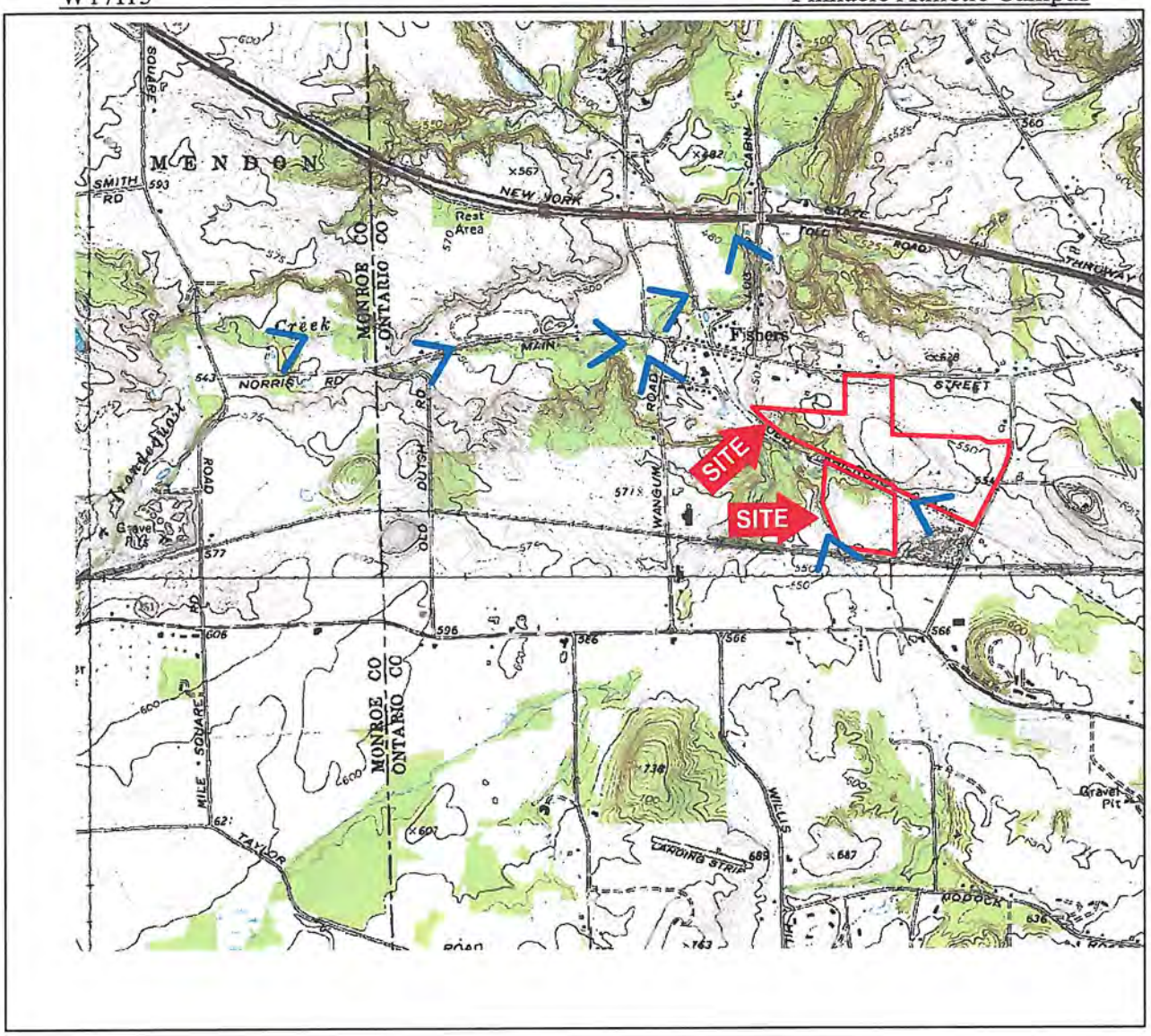


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Figure 7: Drainage Map
Fairport / Delorme 2002

Pinnacle Athletic Campus
Town of Victor, Ontario County, New York

Pinnacle Athletic Campus

ATTACHMENT B

Data Forms

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D1

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): OUTWASH PLAIN Local relief (concave, convex, none): CONVEX

Slope (%): 1-3 Lat: 43.00517 Long: -77.45500 Datum: NAD83

Soil Map Unit Name: PALMYRA FINE SANDY LOAM, 0-3% SLOPES NW I classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

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

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')			
1. SOLIDAGO CANADENSIS	25	Y	FACU
2. POA PRATENSIS	20	Y	FACU
3. ARTEMISIA VULGARIS	20	Y	UPL
4. TARAXACUM OFFICINALE	14	N	FACU
5. FRAGARIA VIRGINIANA	12	N	FACU
6. LOTUS CORNICULATUS	5	N	FACU
7. CYNOGLOSSUM OFFICINALE	3	N	FACU
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= 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% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: OLD FIELD

Hydrophytic Vegetation Present? Yes ____ No Y

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

Photo # 3 **Direction of Photo** EAST

Project Code: W17I13

SOIL Sampling Point: D1

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
0-8	10YR4/3	100					Sil	
8-12	10YR5/4	100					Sil	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D2

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): OUTWASH PLAIN Local relief (concave, convex, none): CONVEX

Slope (%): 1-3 Lat: 43 00504 Long: -77.45511 Datum: NAD83

Soil Map Unit Name: PALMYRA FINE SANDY LOAM, 0-3% SLOPES NWI classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ___	No X	**Is the Sampled Area within a Wetland?** Yes ___ No X
Hydric Soil Present?	Yes ___	No X	
Wetland Hydrology Present?	Yes ___	No X	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 X	Depth (inches): N/A
Water Table Present?	Yes ___	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes ___ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: DP

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. MALUS CORONARIA	10	Y	NO
2. FRAXINUS PENNSYLVANICA	3	N	FACW
3.			
4.			
5.			
6.			
7.			
	13	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15')			
1. CORNUS RACEMOSA	60	Y	FAC
2. LONICERA TATARICA	12	N	FACU
3. FRAXINUS PENNSYLVANICA	3	N	FACW
4.			
5.			
6.			
7.			
	75	= Total Cover	

Herb Stratum (Plot size: 5')			
1. FRAGARIA VIRGINIANA	40	Y	FACU
2. POA ANNUA	20	Y	FACU
3. GEUM CANADENSE	15	N	FAC
4. ROSA MULTIFLORA	6	N	FACU
5. ARTEMISIA VULGARIS	5	N	UPL
6. SOLIDAGO CANADENSE	2	N	FACU
7.			
8.			
9.			
10.			
11.			
12.			
		= Total Cover	

Woody Vine Stratum (Plot size: 30')			
1.			
2. N/A			
3.			
4.			
		= Total Cover	

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: Sec. Suburban

Hydrophytic Vegetation Present? Yes ___ No X

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

Photo # 4 **Direction of Photo** WEST

Project Code: W17I13

SOIL Sampling Point: D2

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 4/3	100					Sil	
6-12	10YR 5/4	100					Sil	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ 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, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D3

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): BORROW PIT Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00294 Long: -77.45579 Datum: NAD83

Soil Map Unit Name: Schoharie Silt loam, 0-3% SLOPES NWI classification: PSS

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____		
Wetland Hydrology Present?	Yes X No _____	If yes, optional Wetland Site ID: W2	

Remarks: (Explain alternative procedures here or in a separate report.)

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)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ 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 X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. SALIX SERICEA	60	Y	OBL
2. CORNUS AMOMUM	40	Y	FACW
3.			
4.			
5.			
6.			
7.			
	100% = Total Cover		

Herb Stratum (Plot size: 5')			
1.			
2.			
3.			
4.			
5. N/A			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')			
1. VITIS AESTIVALIS	3	N	FACU
2.			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

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

Prevalence Index = B/A = _____

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PSS

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 10 **Direction of Photo** WEST

Project Code: W17I13

SOIL Sampling Point: D3

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
0-12	10YR 5/2	95	10YR 5/6	5	C	M	SiL	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

NO TOPSOIL - MAN MADE WETLAND

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D4

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): DRUMLIN Local relief (concave, convex, none): CONVEX

Slope (%): 8.15 Lat: 43.00542 Long: -77.45641 Datum: NAD83

Soil Map Unit Name: ONTARIO GRAVELLY LOAM, 15-25% SLOPES NWI classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

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

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: DH

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. TILIA AMERICANA	70	Y	FACU
2. RHUS TYPHINA	3	N	FACU
3.			
4.			
5.			
6.			
7.			
	73 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. TILIA AMERICANA	30	Y	FACU
2. LONICERA TATARICA	15	Y	FACU
3. RHAMNUS CATHARTICA	10	N	FAC
4.			
5.			
6.			
7.			
	55 = Total Cover		

Herb Stratum (Plot size: 5')			
1. GEUM CANADENSE	25	Y	FAC
2. RHAMNUS CATHARTICA	5	N	FAC
3. LONICERA TATARICA	5	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1. VITIS AESTIVALIS	10	Y	FACU
2.			
3.			
4.			
	10 = 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: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: SUCCESSIONAL N HARDWOOD

Hydrophytic Vegetation Present? Yes ____ No X

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

Photo # 12 **Direction of Photo** EAST

Project Code: W17I13

SOIL Sampling Point: D4

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 4/3	100					L	
6-12	10YR 5/6	100					L	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

Well Drained soil

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D5

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): DRUMLIN Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00554 Long: -77.45828 Datum: NAD83

Soil Map Unit Name: ONTARIO GRAVELLY LOAM, 15-25% SLOPES NWI classification: PSS

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____		
Wetland Hydrology Present?	Yes X No _____	If yes, optional Wetland Site ID:	W3

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X 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 on 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 W ater 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 X	Depth (inches): _____
Water Table Present?	Yes ____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): Surface

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D5

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. ACER SACCHARINUM	10	Y	FACW
2. FRAXINUS PENNSYLVANICA	6	N	FACW
3.			
4.			
5.			
6.			
7.			
	16 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. CORNUS AMOMUM	40	Y	FACW
2. CORNUS RACEMOSA	20	Y	FAC
3. SALIX SERICEA	10	N	FACW
4. LONICERA TATARICA	5	N	FACU
5.			
6.			
7.			
	75 = Total Cover		

Herb Stratum (Plot size: 5')			
1. CAREX VULPINOIDEA	30	Y	OBL
2. CAREX INTUMESCENS	20	Y	FACW
3. ASCLEPIAS INCARNATA	12	N	OBL
4. EUTHAMIA GRAMINIFOLIA	7	N	FAC
5. TOXICODENDRON RADICANS	5	N	FAC
6. PHALARIS ARUNDINACEA	5	N	FACW
7.			
8.			
9.			
10.			
11.			
12.			
	79 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1. VITIS AESTIVALIS	3	N	FACU
2.			
3.			
4.			
	3 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PSS

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 13 **Direction of Photo** NORTHWEST

Project Code: W17I13

SOIL

Sampling Point: D5

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
0-5	10YR 4/2	97	10YR 7/8	3	C	M	Sil	
5-12	10YR 5/2	90	10YR 7/8	10	C	M	Sil	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D6

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): DRUMLIN Local relief (concave, convex, none): CONVEX

Slope (%): 1-3 Lat: 43.00462 Long: -77.45723 Datum: NAD83

Soil Map Unit Name: ONTARIO GRAVELLY LOAM, 15-25% SLOPES NW I classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

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

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D6

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3. N/A			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. CRATAEGUS CRUS-GALI	20	Y	FAC
2. LONICERA TATARICA	15	Y	FACU
3. CORNUS RACEMOSA	10	N	FAC
4. ROSA MULTIFLORA	8	N	FACU
5. ELAEAGNUS ANGUSTIFOLIA	5	N	FACU
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. SOLIDAGO CANADENSIS	35	Y	FACU
2. POA PRATENSIS	30	Y	FACU
3. TARAXACUM OFFICINALE	10	N	FACU
4. FRAGARIA VIRGINIANA	8	N	FACU
5. ARTEMISIA VULGARIS	5	N	FACU
6. GEUM CANADENSE	3	N	FAC
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. VITIS AESTIVALIS	5	N	FACU
2.			
3.			
4.			
	5 = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW , or FAC: 25% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: OLD FIELD

Hydrophytic Vegetation Present? Yes ____ No X

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

Photo # 14 **Direction of Photo** NORTH

Project Code: W17I13

SOIL Sampling Point: D/

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 4/3	100					Sil	
6-12	7.5YR 5/4	100					Sil	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October ~~7~~ 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D7

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): DRUMLIN Local relief (concave, convex, none): CONVEX

Slope (%): 15 Lat: 43.00462 Long: -77.45935 Datum: NAD83

Soil Map Unit Name: ONTARIO GRAVELLY LOAM, 15-25% SLOPES NW I classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

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

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D7

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. ROBINIA PSEUDOACASIA	80	Y	FACU
2. POPULUS TREMBOLOIDES	5	N	FAC
3.			
4.			
5.			
6.			
7.			
	85 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. ROBINIA PSEUDOACASIA	30	Y	FACU
2. LONICERA TATARICA	15	Y	FACU
3. ROSA MULTIFLORA	8	N	FACU
4.			
5.			
6.			
7.			
	53 = Total Cover		

Herb Stratum (Plot size: 5')			
1. ARTEMISIA VULGARIS	50	Y	FACU
2. POLYGAGO CANADENSIS	10	N	FACU
3. RUBUS ALLEGHENIENSIS	8	N	FACU
4. TARAXACUM OFFICINALE	6	N	FACU
5. CAREX BLANDA	2	N	FAC
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	76 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= 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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: SUCCESSIONAL N. HARDWOODS

Hydrophytic Vegetation Present? Yes ____ No X

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

Photo # 19 **Direction of Photo** SOUTH

Project Code: W17I13

SOIL

Sampling Point: D7

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	7.5YR 4/3	100					SL	
3-12	7.5YR 5/4	100					SL	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: DS

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00620 Long: -77.46012 Datum: NAD83

Soil Map Unit Name: Pits, GRAVEL & SAND NW I classification: PSS

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____		
Wetland Hydrology Present?	Yes X No _____	If yes, optional Wetland Site ID: W4	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- X 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)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D8

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX NIGRA	60	Y	OBL
2.			
3.			
4.			
5.			
6.			
7.			
	60 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. SALIX SERICEA	60	Y	FACW
2. CORNUS AMOMUM	3	N	FACW
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')			
1. SOLIDAGO CANADENSE	25	Y	FACU
2. SYMPHYOTRICHUM LATERIFLORUM	18	Y	FAC
3. EQUISETUM HYEMALE	10	N	FAC
4. EUTHAMIA GRAMINIFOLIA	7	N	FAC
5. FRAXINUS PENNSYLVANICA	5	N	FACW
6. PHRAGMITES AUSTRALIS	3	N	FACW
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW , or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW , or FAC: 75% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PSS

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 20 **Direction of Photo** NORTH

Project Code: W17I13

SOIL

Sampling Point: D8

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
0-12	7.5YR 5/2	95	7.5YR 5/6	5	C	M	grsl	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

MAN CREATED WETLAND - RESULT OF PAST MINING

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D9

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Borrow Pit Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00529 Long: -77.46230 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: PSS

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____	If yes, optional Wetland Site ID:	WG
Wetland Hydrology Present?	Yes X No _____		

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- X 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)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season W ater 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 X	No _____	Depth (inches): 3"
Water Table Present?	Yes X	No _____	Depth (inches): INUNDATED
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): INUNDATED

Wetland Hydrology Present? Yes X No _____

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

Remarks:

MAN MADE WETLAND- OLD GRAVEL MINE

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D9

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. POPULUS TREMBULOIDES	5	N	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. SALIX SERICEA	40	Y	FACW
2. SALIX NIGRA	10	N	OBL
3.			
4.			
5.			
6.			
7.			
	50 = Total Cover		

Herb Stratum (Plot size: 5')			
1. PHRAGMITES AUSTRALIS	15	Y	FACW
2. SYMPHYOTRICHUM LATERIFLORUS	10	Y	FAC
3. ALISMA SUBCORDATUM	10	Y	OBL
4. EQUISETUM HYEMALE	5	N	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	40 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= Total Cover		

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

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

Prevalence Index = B/A = _____

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PSS

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 21 **Direction of Photo** WEST

Project Code: W17I13

SOIL

Sampling Point: D9

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
0-12	10YR 5/2	95	10YR 5/6	5	C	M	LCS	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: None

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D10

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Borrow Pit Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00532 Long: -77.46180 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: PEM

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____		
Wetland Hydrology Present?	Yes X No _____	If yes, optional Wetland Site ID:	W5

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X 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 on 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 W ater 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 X	No ____	Depth (inches): 3-6+"
Water Table Present?	Yes X	No ____	Depth (inches): INUN.
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): INUN.

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D10

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX SERICEA	15	Y	FACW
2. CORNUS AMOMUM	10	Y	FACW
3. SALIX NIGRA	5	N	OBL
4.			
5.			
6.			
7.			
	30 = Total Cover		

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. TYPHA ANGUSTIFOLIA	80	Y	OBL
2. ELEOCHARIS ACICULARIS	10	N	OBL
3. EQUISETUM HYEMALE	5	N	FAC
4. SAMTHYDTRICUM LATERIFLORUS	5	N	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3. N/A			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW , or FAC: 3 (A)

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

Percent of Dominant Species That Are OBL, FACW , or FAC: 100% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PEM

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 22 **Direction of Photo** SOUTH

Project Code: W17I13

SOIL

Sampling Point: D10

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
0-12"	10YR 5/1	100					grls	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D11

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): BORROW PIT Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00520 Long: -77.46177 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: PEM

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____		
Wetland Hydrology Present?	Yes X No _____	If yes, optional Wetland Site ID: W7	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X 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 on 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 W ater 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 X	No ____	Depth (inches): 0-4"
Water Table Present?	Yes X	No ____	Depth (inches): INUNDATED
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): INUNDATED

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D11

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX SERICEA	40	Y	FACW
2. CORNUS AMOMUM	3	N	FACW
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. PHRAGMITES AUSTRALIS	40	Y	FACW
2. SYMPHYOTRICHUM LATERIFLORUS	15	N	FAC
3. EQUISETUM HYEMALE	12	N	FAC
4. ELEOCHARIS ACICULARIS	8	N	OBL
5. TYPHA ANGUSTIFOLIA	5	N	OBL
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	80 = Total Cover		

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3. N/A			
4.			
	= 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% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PEM

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 23 **Direction of Photo** SOUTH

Project Code: W17I13

SOIL

Sampling Point: D11

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
0-8	10YR 5/1	100					grls	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: UNKNOWN

Depth (inches): 8"

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 8, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D12

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Outwash Plain Local relief (concave, convex, none): Convex

Slope (%): 15 Lat: 43.00603 Long: -77.46384 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

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

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes _____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D12

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. QUERCUS RUBRA	40	Y	FACU
2. POPULUS DELTOIDES	30	Y	FAC
3.			
4.			
5.			
6.			
7.			
	70 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. ACER SACCHARUM	30	Y	FACU
2. ELAEAGNUS ANGUSTIFOLIA	20	Y	FACU
3. LONICERA TATARICA	10	N	FACU
4. CARYA OVATA	5	N	FACU
5.			
6.			
7.			
	65 = Total Cover		

Herb Stratum (Plot size: 5')			
1. FRAGARIA VIRGINIANA	5	N	FACU
2. SOLIDAGO CANADENSE	4	N	FACU
3. CORNUS RACEMOSA	4	N	FAC
4. RUBUS ALLEGHENIENSIS	3	N	FACU
5. FRAXINUS PENNSYLVANICUS	2	N	FACU
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	18 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= 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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: SUC. N HARDWOODS

Hydrophytic Vegetation Present? Yes ____ No X

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

Photo # 24 **Direction of Photo** NORTH

Project Code: W17I13

SOIL

Sampling Point: D12

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 4/3	100					LS	
10-15	10YR 5/4	100					LS	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) **(MLRA 149B)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) **(LRR R, MLRA 149B)**
- ___ Polyvalue Below Surface (S8) **(LRR R, MLRA 149B)**
- ___ Thin Dark Surface (S9) **(LRR R, MLRA 149B)**
- ___ Loamy Mucky Mineral (F1) **(LRR K, L)**
- ___ 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, MLRA 149B)**
- ___ Coast Prairie Redox (A16) **(LRR K, L, R)**
- ___ 5 cm Mucky Peat or Peat (S3) **(LRR K, L, R)**
- ___ Dark Surface (S7) **(LRR K, L)**
- ___ Polyvalue Below Surface (S8) **(LRR K, L)**
- ___ Thin Dark Surface (S9) **(LRR K, L)**
- ___ Iron-Manganese Masses (F12) **(LRR K, L, R)**
- ___ Mesic Spodic (TA6) **(MLRA 144A, 145, 149B)**
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 9, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: L13

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): BORROW PIT Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00144 Long: -77.45849 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: PEM

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?**	**Yes** X **No** _____
Hydric Soil Present?	Yes X No _____		
Wetland Hydrology Present?	Yes X No _____	If yes, optional Wetland Site ID:	WB

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X 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 on 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 X	No _____	Depth (inches): 1-4"
Water Table Present?	Yes X	No _____	Depth (inches): INUNDATED
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): INUNDATED

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D13

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX SERICEA	8	N	FACW
2. POPULUS TREMBULOIDES	3	N	FAC
3.			
4.			
5.			
6.			
7.			
	11 = Total Cover		

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. TYPHA ANGUSTIFOLIA	70	Y	OBL
2. EQUISETUM HYEMALE	15	Y	FAC
3. PHRAGMITES AUSTRALIS	5	N	FACW
4. EUTHAMIA GRAMINIFOLIA	5	N	FAC
5. ELEOCHARIS ACICULARIS	5	N	OBL
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 = Total Cover		

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3. N/A			
4.			
	= 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% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PEM

Hydrophytic Vegetation Present? Yes X No

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

Photo # 25 **Direction of Photo** NORTH

Project Code: W17I13

SOIL Sampling Point: D12

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 5/1	96	10YR 5/8	1	C	PL	CL	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 9, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D4

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Borrow Pit Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00236 Long: -77.45880 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: NEM

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X	No _____	If yes, optional Wetland Site ID: W11
Wetland Hydrology Present?	Yes X	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X 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 on 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 W ater 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 X	No X	Depth (inches): 0-6" (50%)
Water Table Present?	Yes X	No _____	Depth (inches): SURFACE
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): SURFACE

Wetland Hydrology Present? Yes X No _____

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

Remarks:

OLD BORROW PIT - MAN CREATED WETLAND

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D14

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. SALIX SERICEA	10	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')			
1. PHRAGMITES AUSTRALIS	50	Y	FACW
2. JUNCUS CANADENSIS	40	Y	OBL
3. CAREX VULPENOIDEA	7	N	OBL
4. EUTHAMIA GRAMINIFOLIA	3	N	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW , or FAC: 3 (A)

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

Percent of Dominant Species That Are OBL, FACW , or FAC: 100% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PEM

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 29 **Direction of Photo** NORTH

Project Code: W17I13

SOIL

Sampling Point: D14

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
0-12	7.5YR 3/1	100					S.C	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 9, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D15

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Borrow Pit Local relief (concave, convex, none): CONCAVE

Slope (%): 0 Lat: 43.00231 Long: -77.46035 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: PEM

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X	No _____	If yes, optional Wetland Site ID: W19
Wetland Hydrology Present?	Yes X	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

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

- X Surface Water (A1)
- X High Water Table (A2)
- X 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 on 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 W ater 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 X	No _____	Depth (inches): 1-6"
Water Table Present?	Yes X	No _____	Depth (inches): INUNDATED
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): INUNDATED

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D15

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. SALIX SERICEA	10	Y	FACW
2. SALIX NIGRA	10	Y	OBL
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. TYPHA ANGUSTIFOLIA	60	Y	OBL
2. PHRAGMITES AUSTRALIS	20	Y	FACW
3. EQUISETUM HYEMALE	20	Y	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2. N/A			
3.			
4.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW , or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW , or FAC: 100% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: PEM

Hydrophytic Vegetation Present? Yes X No ____

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

Photo # 34 **Direction of Photo** WEST

Project Code: W17I13

SOIL

Sampling Point: D15

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
0-12	10YR5/1	100					cl	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- X 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes X No ___

Remarks:

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 9, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D16

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Borrow Pit Local relief (concave, convex, none): CONVEX

Slope (%): 3 Lat: 43.00603 Long: -77.46384 Datum: NAD83

Soil Map Unit Name: Pits, Gravel & Sand NW I classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ____	No X	

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D16

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4. N/A			
5.			
6.			
7.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')	Absolute % Cover	Dominant Species?	Indicator Status
1. ELAEAGNUS ANGUSTIFOLIA	5	N	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. DAUCUS CAROTA	23	Y	FACU
2. SOLIDAGO CANADENSIS	20	Y	FACU
3. SYMPHYOTRICHUM LATERIFLORUS	17	Y	FAC
4. AGROSTIS PERENNANS	13	N	FACU
5. LOTUS CORNICULATUS	10	N	FACU
6. TARAXACUM OFFICINALE	7	N	
7.			
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3. N/A			
4.			
	= 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: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

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

Prevalence Index = B/A =

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: SUC. OF

Hydrophytic Vegetation Present? Yes ____ No X

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

Photo # 36 **Direction of Photo** NORTHEAST

Project Code: W17I13

SOIL

Sampling Point: D16

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
0-12	7.5YR 3/4	100					Sic	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

OLD BORROW Pit/NO Topsoil

Project Code: W17I13

WETLAND DETERMINATION DATA FORM Northcentral and Northeast Region

Project/Site: Pinnacle Athletic Campus City/County: Victor/Ontario County Sampling Date: October 9, 2013

Applicant/Owner: Sealand Contractors State: New York Sampling Point: D17

Investigator(s): Scott Livingstone and Andy Steiner Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 30 Lat: 43.00239 Long: -77.46126 Datum: NAD83

Soil Map Unit Name: Schoharie Silty Clay loam 15-25% slopes NWI classification: _____

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

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

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes ___ No X (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ____	No X	

Remarks: (Explain alternative procedures here or in a separate report.)

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 on 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 W ater 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 X	Depth (inches): N/A
Water Table Present?	Yes ____	No X	Depth (inches): N/A
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): N/A

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

Project Code: W17I13

VEGETATION : Use scientific names of plants.

Sampling Point: D17

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. PRUNUS SEROTINA	30	Y	FACU
2. FRAXINUS PENNSYLVANICUS	18	Y	FACW
3. ACER SACCHARUM	20	Y	FACU
4. CARYA OVATA	8	N	FACU
5.			
6.			
7.			
	79 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. LONICERA TATARICA	12	Y	FACU
2. ROSA MULTIFLORA	8	N	FACU
3. FRAXINUS PENNSYLVANICUS	7	N	FACW
4.			
5.			
6.			
7.			
	= Total Cover		

Herb Stratum (Plot size: 5')			
1. GEUM CANADENSE	10	Y	FAC
2. ROSA MULTIFLORA	10	Y	FACU
3. RUBUS ALLEGHENIENSIS	7	N	FACU
4. FRAGARIA VIRGINIANA	6	N	FACU
5. THELYPTERIS NOVEBORACENSIS	5	N	FAC
6. ALLIARIA PETIOLATA	2	N	FACU
7. ONOCLEUS SENSABILIS	1	N	OBL
8.			
9.			
10.			
11.			
12.			
	= Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
3. N/A			
4.			
	= 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: 5 (B)

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

Prevalence Index worksheet:

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

Prevalence Index = B/A = _____

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.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Community Type: NORTHERN HARDWOOD

Hydrophytic Vegetation Present? Yes _____ No X

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

Photo # 39 **Direction of Photo** WEST

Project Code: W17I13

SOIL

Sampling Point: D17

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
0-5	10YR 4/3	100					Sil	
5-12	7.5YR 5/4	100					Sic	

[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)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ 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, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Dark Surface (S7) (**LRR K, L**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: NONE

Depth (inches): N/A

Hydric Soil Present? Yes ___ No X

Remarks:

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ATTACHMENT C

Aerial Photograph

EARTH DIMENSIONS, INC.
* Soil & Hydrogeologic Investigations * Wetland Delineations
1091 Jamison Road, Elma NY 14059
(716) 655-1717 * Fax (716) 655-2915 www.earthdimensions.com

Attachment C: Aerial Photograph
http://oncor.co.ontario.ny.us/oncor/
10/10/13

Pinnacle Athletic Campus
Town of Victor, Ontario County, New York

Pinnacle Athletic Campus

ATTACHMENT D

Site Photographs

Photo 1: Facing west. Depicts the northern property edge from the northeast corner of the parcel.

Photo 2: Facing south. Depicts Phillips Road and the eastern property boundary.

Photo 3: Facing east. Depicts successional old field community of data point D1.

Photo 4: Facing south. Depicts the successional shrubland community of data point D2.

Photo 5: Facing south. Depicts the old mining operation.

Photo 6: Facing west. Depicts the old mining operation on the west side of the access driveway.

Photo 7: Facing east. Depicts the gravel access road coming in from Phillips Road.

Photo 8: Facing south. Depicts the wetland W1, an unnamed tributary to Irondequoit Creek

Photo 9: Facing west. Depicts wetland W1 and the Old railroad bed separating the investigation area.

Photo 10: Facing northwest. Depicts the scrub-shrub swamp of wetland W2 and data point D3.

Photo 11: Facing east. Depicts the old mining operation.

Photo 12: Facing north. Depicts the northern hardwoods at data point D4.

Photo 13: Facing northwest. Depicts the scrub-shrub swamp of wetland W3 and data point D5.

Photo 14: Facing west. Depicts the old field community of data point D6.

Photo 15: Facing south. Depicts the hay field on the north side of the investigation area.

Photo 16: Facing west. Depicts the northern portion of the investigation area along Main Street.

Photo 17: Facing north. Depicts a portion of a mown trail through the middle of the northern parcel.

Photo 18: Facing southeast. Depicts the old field community in the middle of the investigation area.

Photo 19: Facing southwest. Depicts the successional northern hardwood community of data point D7.

Photo 20: Facing north. Depicts the scrub-shrub community of wetland W4 and data point D8.

Photo 21: Facing west. Depicts the scrub-shrub swamp of wetland W5 and data point D9.

Photo 22: Facing west. Depicts the shallow emergent marsh community wetland W5 and data point D10.

Photo 23: Facing south. Depicts the shallow emergent marsh community of wetland W6 and data point D11.

Photo 24: Facing north. Depicts the successional northern hardwood community of data point D12.

Photo 25: Facing north. Depicts the emergent marsh community of wetland W8 and data point D13.

Photo 26: Facing west. Depicts open water community of wetland W9.

Photo 27: Facing west. Depicts the emergent marsh community of wetland W10.

Photo 28: Facing north. Depicts the drainage between wetland W11 and an unammed tributary.

Photo 29: Facing east. Depicts the emergent marsh community of wetland W11 and data point D14.

Photo 30: Facing west. Depicts the emergent marsh community of wetland W12.

Photo 31: Facing north. Depicts the emergent marsh community of wetland W13.

Photo 32: Facing northeast. Depicts the emergent marsh community of wetland W14.

Photo 33: Facing southwest. Depicts the emergent marsh community of wetland W17.

Photo 34: Facing west. Depicts the emergent marsh community of wetland W18 and data point D15.

Photo 35: Facing west. Depicts the emergent marsh community of wetland W19.

Photo 36: Facing north. Depicts the old field community of data point D16.

Photo 37: Facing southwest. Depicts the unnammed tributary flowing northwest under the Lehigh Trail.

Photo 38: Facing northwest. Depicts the unammed tributary to Irondequoit Creek.

Photo 39: Facing north. Depicts the northern hardwood community of data point D17.

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ATTACHMENT E

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ATTACHMENT F

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