



U.S. Army Corps  
of Engineers  
Buffalo District  
CELRB-TD-R

# Public Notice

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Applicant: Rumpke of  
Northern Ohio

Published: November 30, 2015  
Expires: December 30, 2015

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Application No: 1993-05071  
Section: OH

All written comments should reference the above Application No. and be addressed to:  
**US Army Corps of Engineers, Buffalo District**  
**Regulatory Branch (Attn: Joseph Krawczyk)**  
**1776 Niagara Street**  
**Buffalo, NY 14207**

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**THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.**

**Application for Permit under Authority of**  
**Section 404 of the Clean Water Act (33 U.S.C. 1344).**

**APPLICANT:** Rumpke of Northern Ohio, 10795 Hughes Road, Hamilton County, Cincinnati, Ohio 4521

**WATERWAY & LOCATION:** Federally jurisdictional wetlands (1.74 acre Wetland A\*; 0.01 acre Wetland B1; 0.03 acre Wetland B2; 3.14 acre Wetland F; 1.0 acre Wetland H; 6.25 acre Wetland I; and 5.60 acre Wetland J), totaling approximately 17.77 acres, are located entirely or mainly<sup>†</sup> on the existing *Rumpke Noble Road Landfill* property. The *Rumpke Noble Road Landfill* is located at 170 Noble Road East, Richland County, Butler Township, Ohio

<sup>†</sup> 0.36 acre of federally jurisdictional Wetland G/I extends beyond the Rumpke property boundary and is located off-site.

**LATITUDE & LONGITUDE:** Latitude North: 40.969  
Longitude West: 82.483

**EXISTING CONDITIONS:** Description of delineation of waters of the US, if applicable:

A **February 6, 2015 Corps Preliminary Jurisdictional Determination**, for an area (6.5 acres) located northeast of the existing *Rumpke Noble Road Landfill* (i.e., the area for which Phase I, Cell 6/7 construction is being proposed) indicates Corps jurisdiction over 1.78 acres of wetlands. Wetlands over which Preliminary Jurisdiction was taken include Wetland A\* (1.74 acres), Wetland B1 (0.01 acre), and Wetland B2 (0.03 acre) (see attached sheet 2 of 12).

As assessed by the Ohio Environmental Permit Agency's (OEPA), Ohio Rapid Assessment Method (ORAM): Wetland A was determined to be a Category 2 emergent/scrub-shrub wetland; and Wetlands B1 and B2 were determined to be Category 1 emergent wetlands.

A **December 3, 2014 Corps Approved Jurisdictional Determination** for an area (166 acres) located west of the existing *Rumpke Noble Road Landfill* (i.e., the area for which Phase II, horizontal expansion is being proposed) determined that 15.99 acres of jurisdictional, regulated wetlands were located on this portion of the site. Regulated wetlands include Wetland F (3.14 acres), Wetland H (1.0 acre), Wetland I (6.25 acres), and Wetland J (5.60 acres). Additionally, 0.92 acre of isolated, non-jurisdictional, non-regulated wetlands were also located on this portion of the project site. Non-regulated, isolated wetlands include Wetlands A, B, C, and D (see attached sheet 2 of 12).

As assessed by the OEPA ORAM: Wetlands F and H were determined to be Category 2, scrub-shrub/forested wetlands; Wetland G/I was determined to be a Modified Category 2 emergent/scrub-shrub/forested wetland; and Wetland J was determined to be a Modified Category 2, emergent/scrub-shrub/forested wetland.

**PROPOSED WORK:** The Applicant has requested a Department of the Army permit to permanently impact 10.43 acres of federal wetlands as a result of the proposed Phase I (Cell 6/7 construction) and Phase II (Horizontal Expansion) of the existing *Rumpke Noble Road Landfill*. 6.07 acres of wetlands would remain following the proposed impacts.

The planned impacts to wetlands occur in two separate hydrologic units (and corresponding U.S. Army Corps of Engineers Regulatory Districts): in the southern portion of the site, Shipp Creek-Black Fork Mohican River (HUC #050400020105; Huntington District=HD) and in the northern portion of the site, Southwest Branch Vermilion River (HUC #041000120103; Buffalo District=BD). A summary is provided below for the Preferred Alternative impacts to Jurisdictional (Non-isolated) Wetlands for both Phase I and Phase II:

**Phase I-Cell 6/7 to the northeast of the landfill (0.40 acre in total):**

- Wetland A\*: 0.36 acres (emergent/scrub-shrub, jurisdictional; BD),
- Wetland B1: 0.01 acres (emergent, jurisdictional; BD),
- Wetland B2: 0.03 acres (emergent, jurisdictional; BD).

**Phase II-Horizontal Expansion to the west of the landfill (10.03 acres in total):**

- Wetland F: 3.14 acres (scrub-shrub/forested, jurisdictional; BD),
- Wetland H: 1.00 acres (scrub-shrub/forested, jurisdictional; BD),
- Wetland G/I: 5.89 acres (emergent/scrub-shrub/forested, jurisdictional; HD).

**PHASE I:** The Applicant proposes the construction of Cells 6 and 7, in order to provide additional airspace for waste disposal, on an approximately 6.5 acre project area located northeast of the existing landfill. The Phase I proposal would impact 3 federal wetlands, totaling 0.4 acres of impact (see attached sheets 2 and 4 of 12).

**Unauthorized Impacts in Phase I:** Cell 6 is presently under construction, and Cell 7 is proposed to be built in 2016. The construction of a temporary berm (built to allow equipment access to construct the Cell 6 berm) resulted in the unintentional and unauthorized impact of 0.1 acre of federal wetlands (0.06 acre of unauthorized impact to Wetland A\*; 0.01 acre of unauthorized impact to Wetland B1; and 0.03 acre of unauthorized impact Wetland B2), located east of existing Cells 6 and 7 (see attached sheet 3 of 12). The portions of the wetlands that were unintentionally impacted by the temporary berm would have been impacted under the currently proposed Phase I, Cell 6/7 construction. Therefore, the Applicant is seeking after-the-fact authorization to maintain these unauthorized fills.

**PHASE II:** The Applicant proposes the Horizontal Expansion of the existing landfill, to the west, in order to provide an additional 87.5 acre footprint for waste disposal, as well as additional, contiguous areas to be used to support landfill development (perimeter berms, drainage structures, roadways, borrow areas, etc.) at the site. The Phase II proposal would impact 3 federal wetlands, totaling 10.03 acres of impact.

**Previous Wetland Impacts and Wetland Mitigation:** The Buffalo District Corps granted previous (1995) authorization to *Milliron Industries, Incorporated* (i.e., a different Applicant at the same landfill location), to impact 3.35 acres of federal wetlands. The previous wetland impacts occurred across a total of 11 wetland features concentrated in the northern and southern thirds of the currently existing *Rumpke Noble Road Landfill* site. The previous Applicant provided 12.45 acres of created and enhanced wetlands (1.07 acres in excess of the 11.38 acres that was required through Corps permit Special Conditions). Existing Mitigation Areas 1, 2, and 3 are illustrated on attached sheet 2 of 12.

Phase I of the Preferred Design Alternative (PDA), proposed above, would have no impact on Existing Mitigation Area 1. Phase II of the PDA would impact approximately 2.1 acres of Existing Mitigation Area 2. The PDA would not impact Existing Mitigation Area 3.

**PROJECT PURPOSE:**

Basic: Landfill construction

Overall: Expand the *Rumpke Noble Road Landfill* to: a. provide additional landfill space (15 million tons) within the existing service area; and b. extend the overall life of the existing landfill by approximately 25 years (i.e., 15 years of additional life through the construction of proposed Phase I and II, added onto the existing life of the landfill).

Water Dependency Determination: The discharge of fill material into 10.43 acres of federal wetlands, for the purpose of constructing a landfill expansion, is not a water dependent activity because it does not require access or siting within the special aquatic sites (Wetlands A, B1, B2, F, H, and G/I) to fulfill its basic purpose. Therefore, practicable alternatives that do not involve special aquatic sites are presumed to be available, unless clearly demonstrated otherwise.

**AVOIDANCE AND MINIMIZATION INFORMATION:**

**Preferred Design Alternative (PDA):** This alternative (see attached sheets 2, 4 and 7 of 12) would maximize use of land within the Landfill property limits:

- Phase I - The Applicant would complete the Rumpke Noble Road Landfill Cells 6 and 7 according to the original, approved landfill plan (i.e., Permit to Install issued by Ohio EPA in 1994). Cell 6 is under construction, and Cell 7 is planned to be built in 2016. This landfill construction plan uses more regular geometry to maximize available air space, extending the effective life of the landfill and reducing construction costs and engineering complexity.
- Phase II - The Applicant would construct the Horizontal Expansion to the west using more regular geometry to maximize available air space and meet the projected waste disposal demands within the region for the next several decades. The proposed configuration would be the most cost-effective and the easiest to implement from an engineering perspective.
- The PDA would yield an estimated 15 million tons of airspace and 15 years of additional lifespan.

Phase I of the Preferred Design Alternative (PDA), proposed above, would have no impact on Existing Mitigation Area 1. Phase II of the PDA would impact approximately 2.1 acres of Existing Mitigation Area 2. The PDA would not impact Existing Mitigation Area 3.

**Minimal Degradation Alternative (MDA):** This alternative (see attached sheet 5 and 8 of 12) would involve the adjustment of the landfill construction footprint, resulting in less impact to federal wetlands (i.e., approximately 4.54 acres in total). According to the Applicant, these adjustments would result in a less regular cell geometry; would yield less available air space; would require greater engineering complexity; and would incur a greater expense compared with the PDA. The MDA would yield an estimated 13 million tons of airspace and 13 years of additional lifespan. The MDA would have no impact on any of the Existing Mitigation Areas.

**Non-Degradation Alternative (NDA):** This alternative (see attached sheet 6 and 9 of 12) would involve the vast alteration of landfill construction footprint, in order to eliminate all direct impacts to federal wetlands. According to the Applicant, this alternative would result in significant losses in air space; increase engineering complexity; and lower cost effectiveness, compared with the PDA and MDA. The NDA would yield an estimated 5 million tons of airspace and 5 years of additional lifespan. The NDA would have no impact on any of the Existing Mitigation Areas.

**Further minimization step:** The layout of the proposed projects have been planned to limit the impacts to the larger wetlands located south of the current landfill and to completely avoid the *Fowler Woods State Preserve* to the east.

**PROPOSED MITIGATION:** The Applicant proposes to mitigate all wetland impacts that would occur in the Vermilion River watershed (Buffalo District) through the purchase of 11.20 acres of wetland credits at the Edison Woods Mitigation Bank, operated by the North Coast Regional Council of Park Districts, to compensate for 4.54 acres of impact to jurisdictional scrub-shrub/forested wetlands (see attached sheets 10 and 11 of 12).

The Applicant also proposes to restore and create an 11.21-acre wetland complex on-site including (in order of increasing acreage): emergent, scrub-shrub and forested wetland to compensate for all isolated and jurisdictional wetland impacts in the Mohican River watershed (Huntington District) (see attached sheets 2, 10, and 11 of 12). To accomplish this, Rumpke will allocate an approximately 20-acre area of predominantly hydric soils on the west side of the horizontal expansion site (along State Route 13) to establish an on-site mitigation area to be protected in perpetuity. As the mitigation area develops, to the extent practicable, plants, soils, and animals from the existing wetlands within the horizontal expansion footprint will be gradually relocated into the mitigation area, prior to impacting the original wetlands for landfill construction. With the anticipated phasing of this expansion, Rumpke and MAD expect to be able to salvage much of the biological material before the wetlands are impacted, providing a beneficial source of local genotype plants and animals to colonize the maturing wetlands.

Location and details of the work described above are shown on the attached maps and drawings.

Comments or questions pertaining to the work described in this notice should reference the Application Number **1993-05071** and be directed to the attention of Joseph W. Krawczyk, who can be contacted at the above address, by calling 716-879-4186, or by e-mail at: [joseph.w.krawczyk@usace.army.mil](mailto:joseph.w.krawczyk@usace.army.mil). A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

Additionally, an electronic copy of the full *MAD Scientist Associates, LLC – Section 404 Individual Permit Application* submittal, dated September 21, 2015, can be found at the following web address:  
<http://www.lrb.usace.army.mil/Missions/Regulatory/ActionsandNotices/PublicNotices.aspx>

The applicant has certified that the proposed activity complies with Ohio's approved Coastal Zone Management Program and will be conducted in a manner consistent with that program. Any comments on the consistency of the proposed activity with Ohio's Coastal Zone Management Program should be forwarded to:

Mr. John Kessler  
Ohio Department of Natural Resources  
Office of Real Estate  
2045 Morse Rd.  
Columbus, OH 43229-6605  
phone: 614-265-6621  
email: [john.kessler@dnr.state.oh.us](mailto:john.kessler@dnr.state.oh.us)

The following authorization is required for this project:

Water Quality Certification (or waiver thereof) from the Ohio Environmental Protection Agency

Based on preliminary findings, there do not appear to be any properties listed in, or eligible for listing in, the National Register of Historic Places within the permit area (as shown on attached sheet 12 of 12).

Additionally, *Weller & Associates, Inc.* (June 9, 2015) conducted a Phase I Cultural Resources Management Investigation for the approximately 162 acre *Rumpke Noble Road Landfill* Horizontal Expansion project area (the proposed Phase II project area) (see attached sheet 12 of 12). *Weller & Associates, Inc.*, “do not considered resources identified within the project area to be significant and they are not eligible for the National Register of Historic Places.” They concluded that the undertaking is, “not considered to affect any historic properties.”

Furthermore, *Bush et al.* (1991) conducted a Phase I and II cultural resource investigation (on the eastern portion of the site, where the Cell 6/7 expansion is proposed (see attached sheet 12 of 12). The *Bush et al.* investigation determined that two identified sites were, “not considered eligible to the National Register of Historic Places.”

This notice constitutes initiation of consultation with the Ohio Historic Preservation Office (SHPO) per Section 106 of the National Historic Preservation Act. All currently available historic resource information pertaining to this proposed project will be provided to the SHPO.

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the Corps of Engineers is consulting, under separate cover, with the USFWS to evaluate any potential impacts to: Indiana Bat (*Myotis sodalis*) (Endangered); Northern long-eared bat (*Myotis septentrionalis*) (Potentially Threatened); and the Eastern massasauga rattlesnake (*Sistrurus catenatus*) (Candidate Species); and to ensure that the proposed activity is not likely to jeopardize their continued existence or result in the destruction or adverse modification of critical habitat.

This notice is promulgated in accordance with Title 33, Code of Federal Regulations, parts 320-330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this notice.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

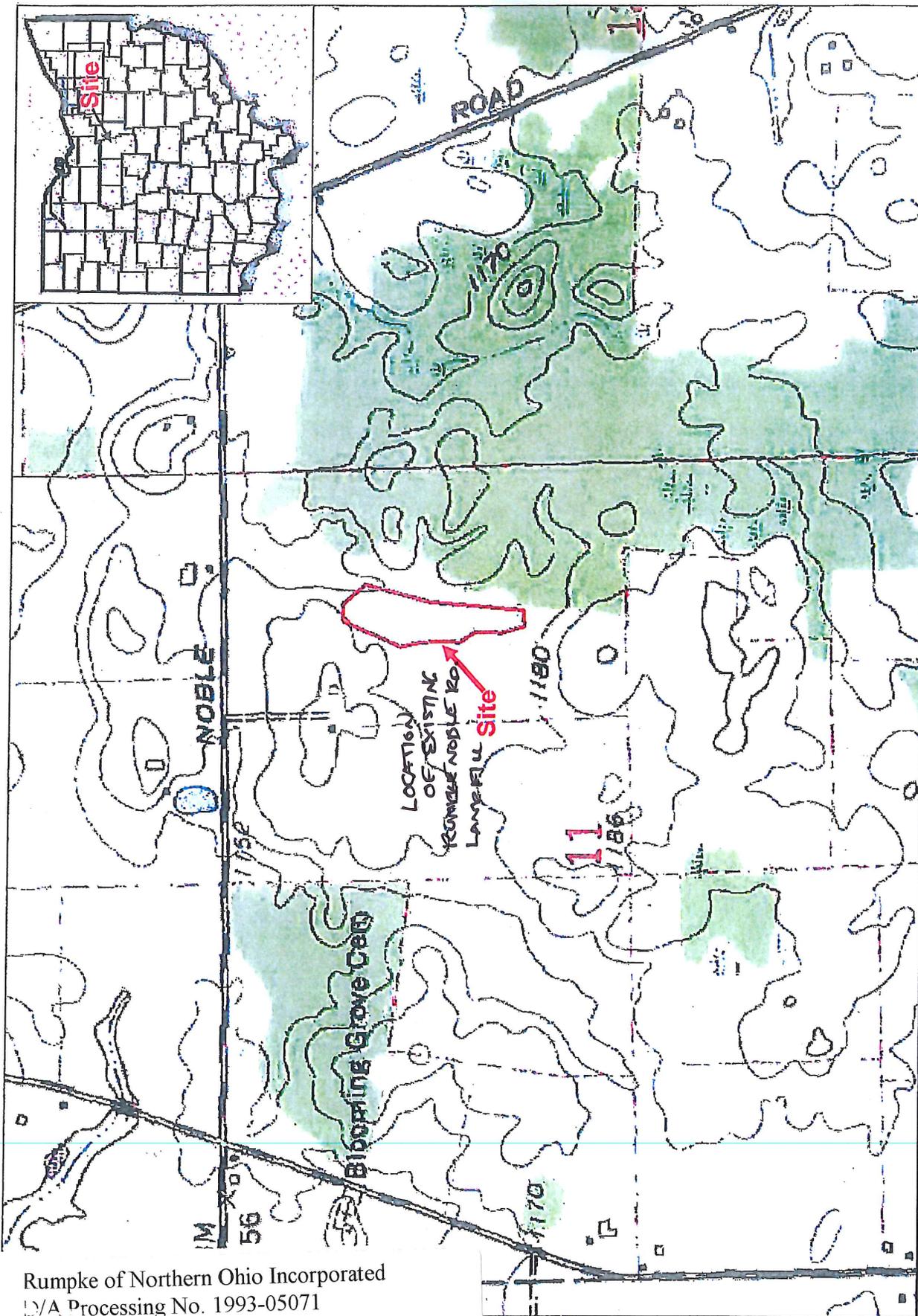
The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors

listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

SIGNED

Diane C. Kozlowski  
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.



Source: USGS 7.5-Minute Topographic Maps:  
Olivesburg Quadrangle

Figure 1.  
General Site Location

Created By: LS

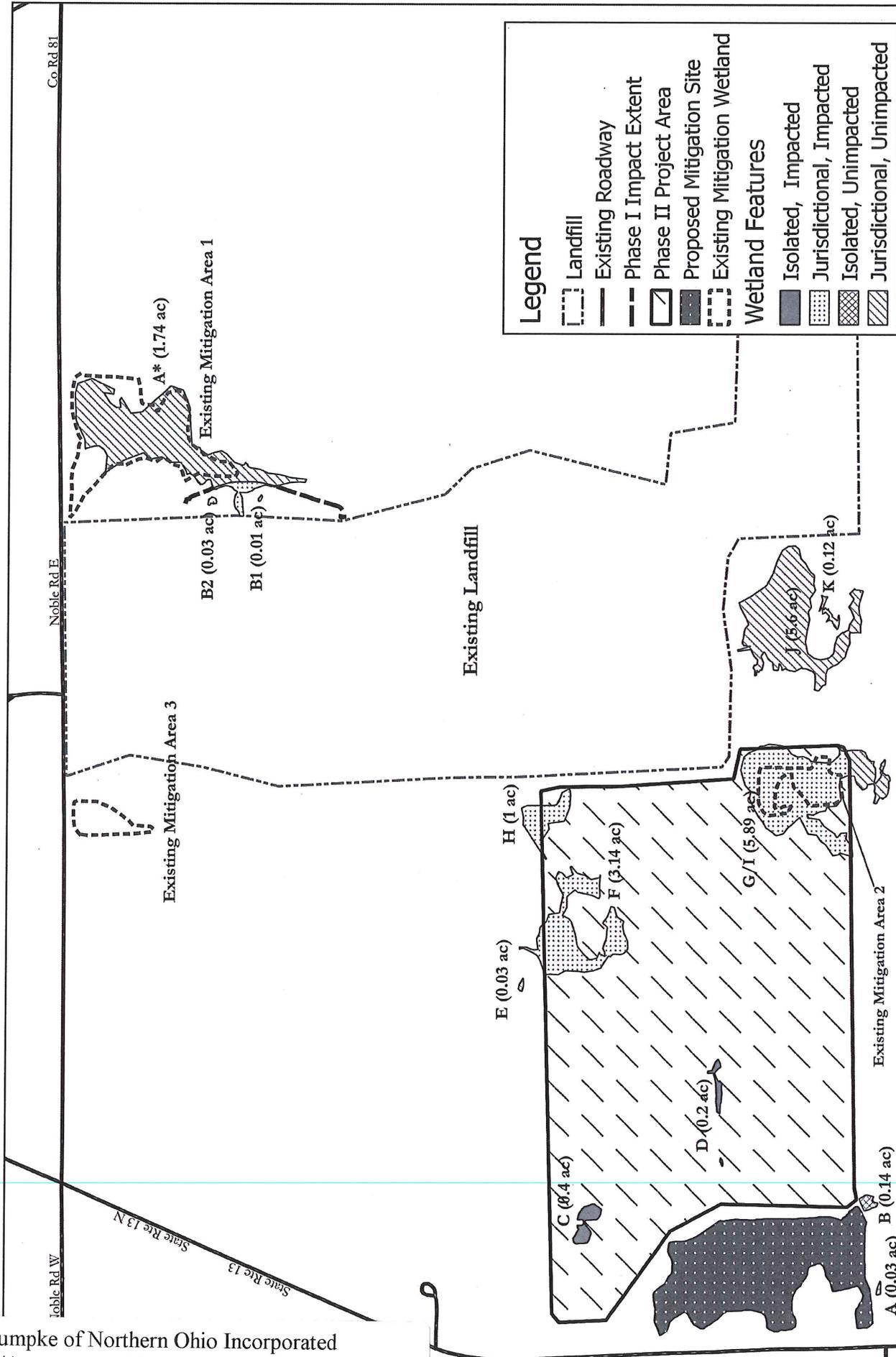
Created By: LS

Shiloh, OH



Rumpke of Northern Ohio Incorporated  
D/A Processing No. 1993-05071  
Richland County  
Quad: OH- Olivesburg  
Sheet 1 of 12





**Rumpke Proposed Wetland Fills - Phase I and Phase II**  
 Rumpke Noble Road Site  
 Richland County, OH

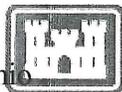
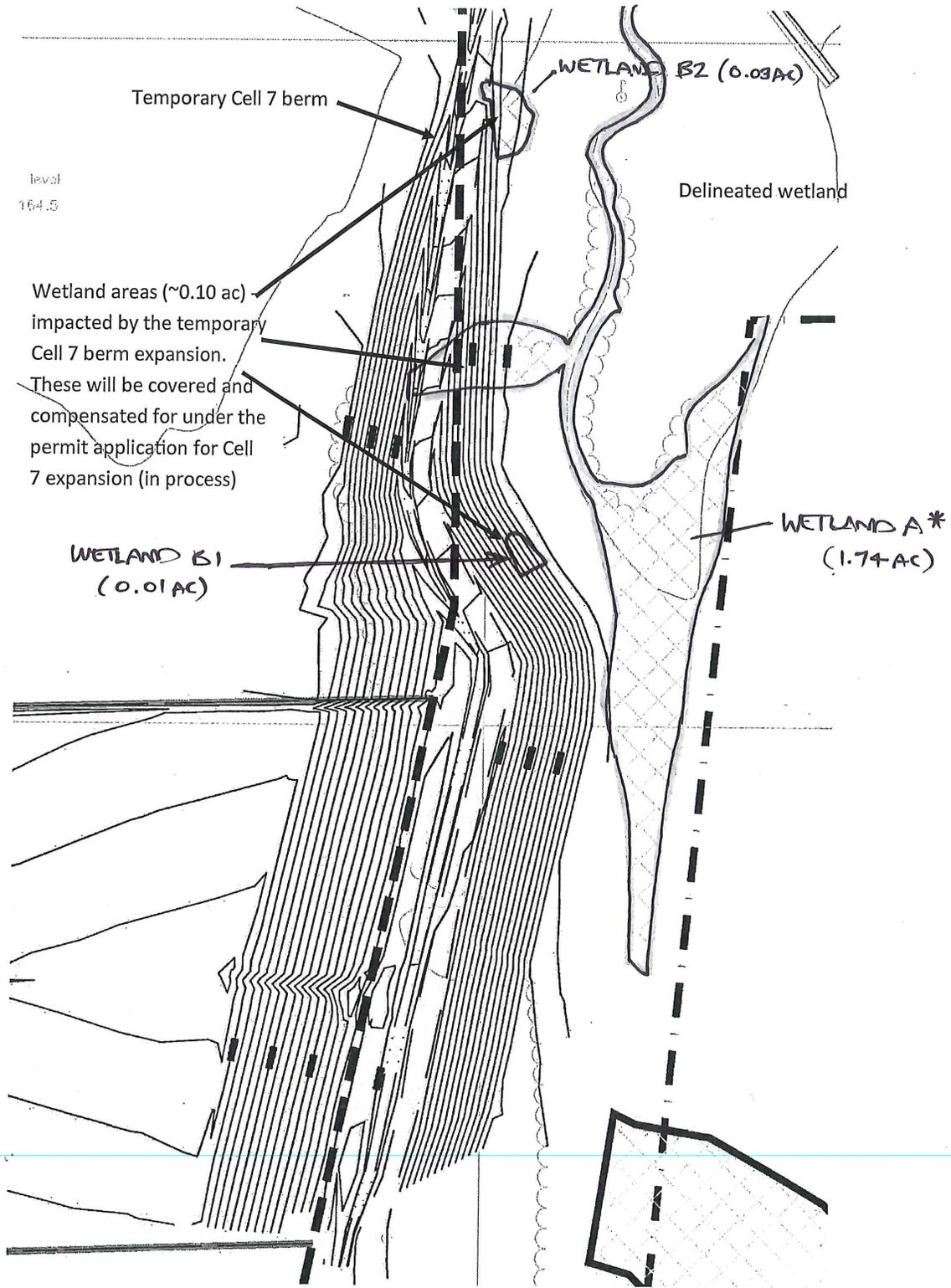
Sources: MAD Scientist, Associates Field Data (2012), North Point Engineering-Design Drawings (2014)  
 Note: Acreages shown depict on-site wetland acreage.  
 \*As designated in 2014 Cell 6/7 delineation report.

Date: November 25, 2015



Created By: Aaron M. Laver

Co Hwy 223



Rumpke of Northern Ohio Incorporated  
 D/A Processing No. 1993-05071  
 Richland County  
 Quad: OH- Olivesburg  
 Sheet 4 of 12



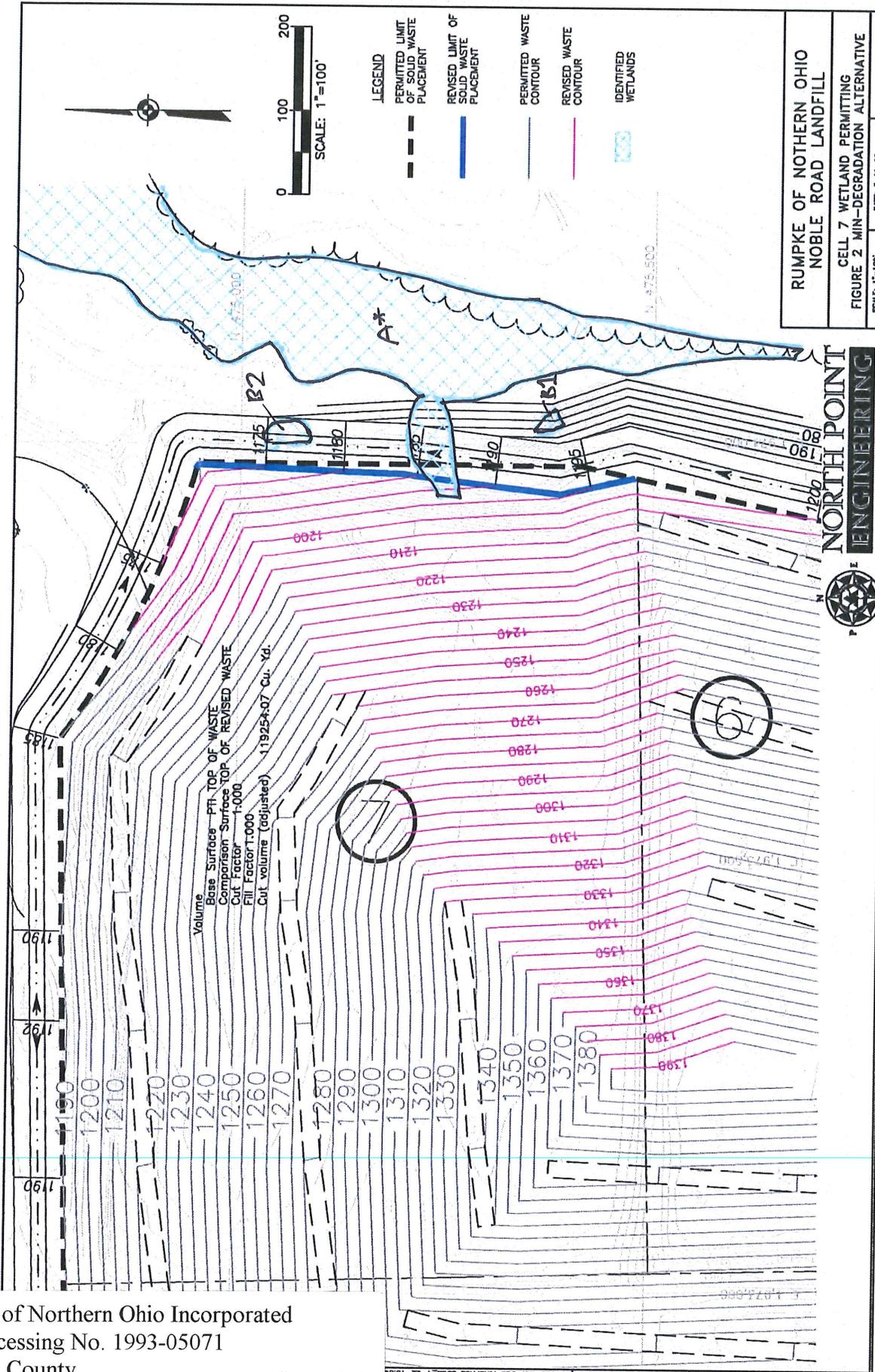
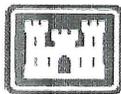
**MLAD**  
 Scientist  
 ASSOCIATES, LLC

North Arrow

**Figure 2: Phase I Preferred Design Alternative**  
 Shiloh, OH

Source: Google Earth,  
 North Point Engineering Construction Plan  
 Created By: LJM

Created: 4-17-2015




**Figure 6: Phase I**  
 Minimal Degradation Alternative

Shiloh, OH

Created By: LJM

Created: 4-22-2015

Source: Google Earth,  
 North Point Engineering Construction Plan

Source: Google Earth,  
 North Point Engineering Construction Plan

**RUMPKE OF NORTHERN OHIO**  
**NOBLE ROAD LANDFILL**  
 CELL 7 WETLAND PERMITTING  
 FIGURE 2 MIN-DEGRADATION ALTERNATIVE  
 SCALE: 1"=100'      DATE: 3-11-15

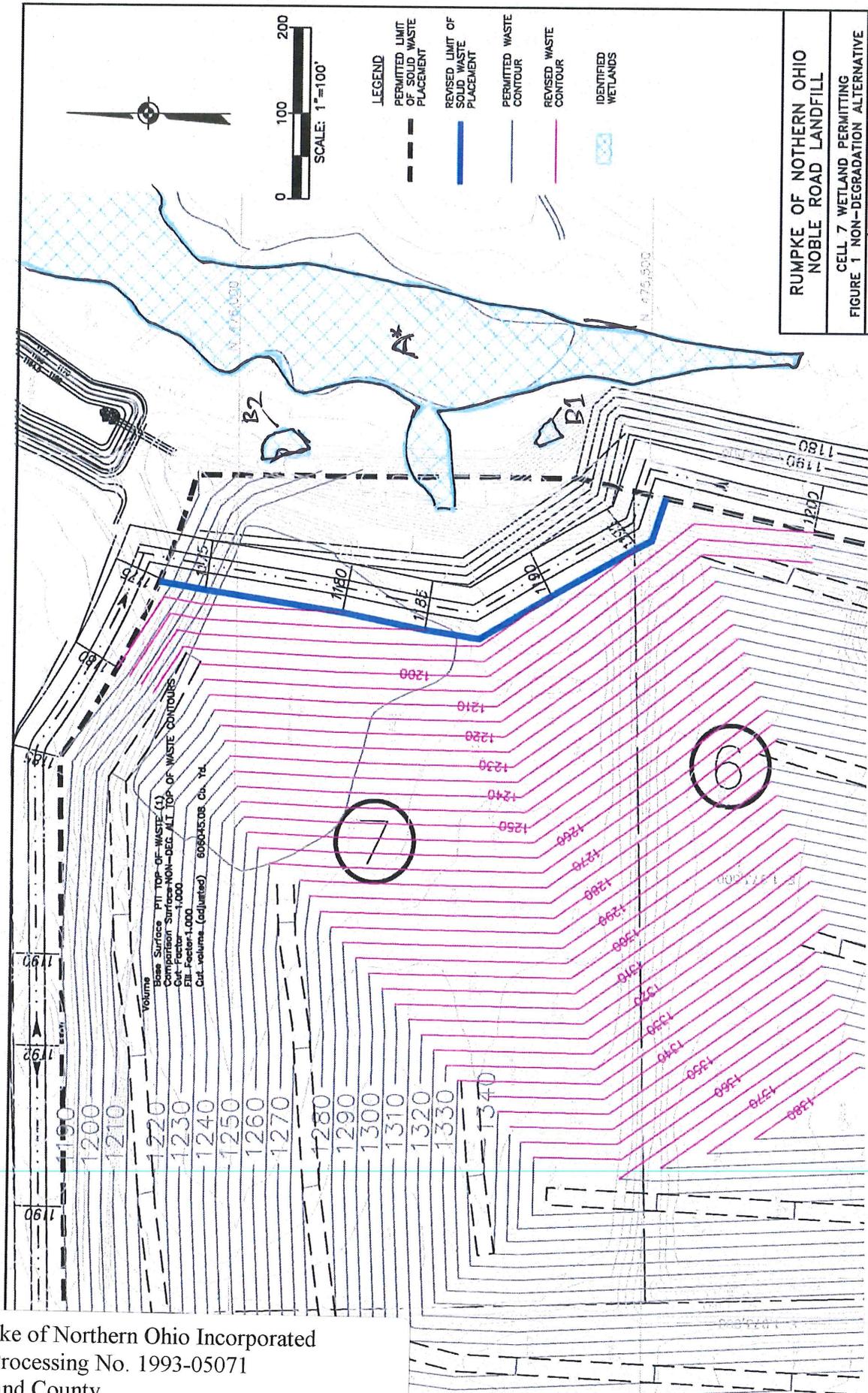
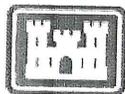


Figure 4: Phase I  
 Non-Degradation Alternative

Source: Google Earth,  
 North Point Engineering Construction Plan

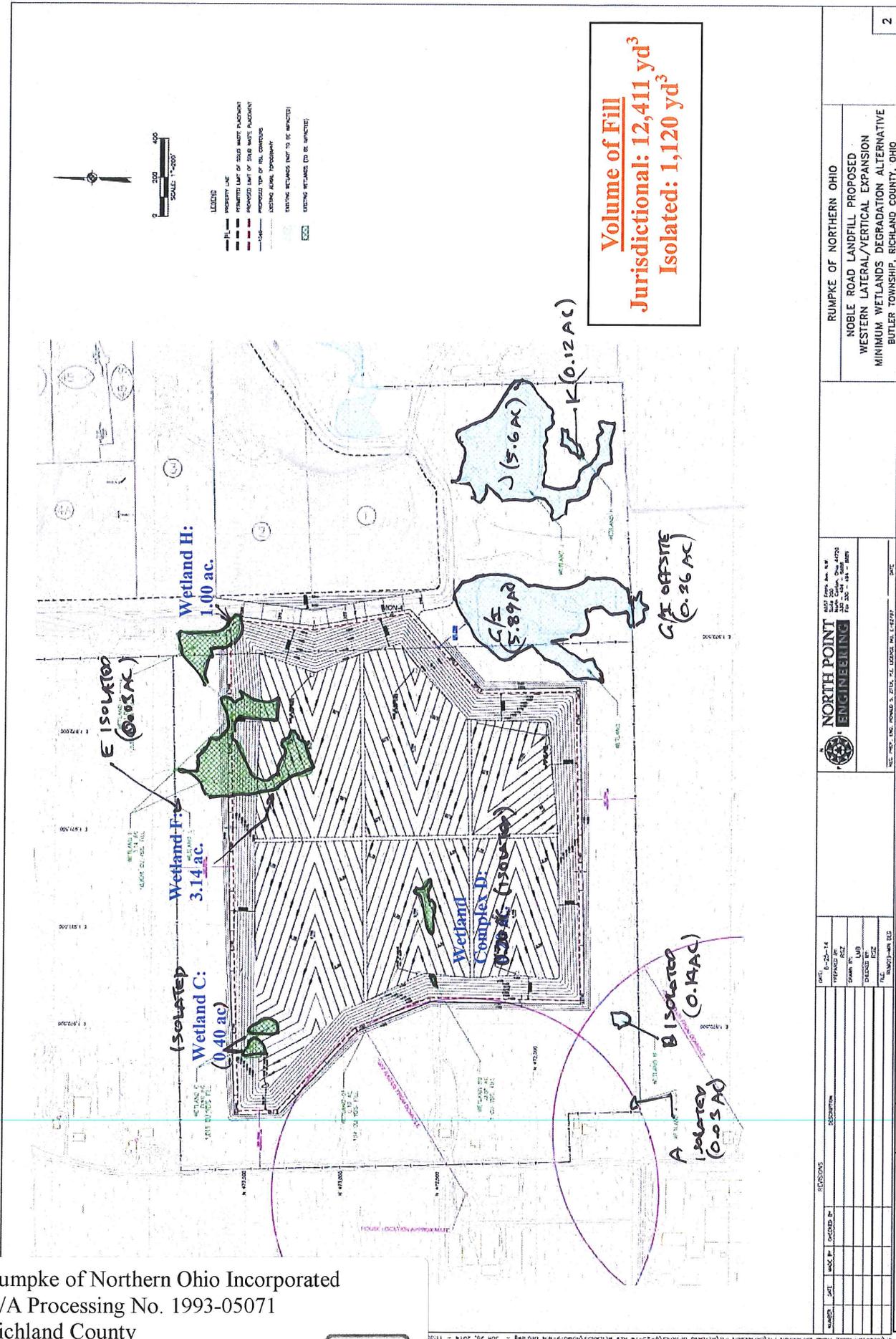
Shiloh, OH

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<p>PROJECT: RUMPKE OF NORTHERN OHIO          NOBLE ROAD LANDFILL PROPOSED WESTERN LATERAL/VERTICAL EXPANSION          MINIMUM WETLANDS DEGRADATION ALTERNATIVE          BUTLER TOWNSHIP, RICHLAND COUNTY, OHIO</p>		2
<p>DATE: 07-24-14          DRAWN BY: [Name]          CHECKED BY: [Name]          FILE: [Name]</p>		<p>Source: North Point Engineering</p>
<p>Figure 7: Phase II          Minimal Degradation Alternative</p>		<p>Created By: North Point Engineering          Edited By: LMK</p>
<p>Shiloh, OH</p>		<p>Created: 07-30-2014</p>





Table 1. PREFERRED ALTERNATIVE Wetland Mitigation Summary: Rumpke Noble Road Landfill - PHASE I

Wetland ID	Size (acres on Site)	Jurisdictional Status	Vegetation Type(s)	Category	Watershed	Mitigation Calculations			Mitigation Proposed		
						Impact Acreage	Mitigation Location*	Mitigation Ratio**	Mitigation Requirement	On-Site	Off-Site (Edison Woods)
A	1.74	Non-isolated	Emergent/Scrub-shrub	2	Vermilion	0.36	Off-site	2.0:1	0.72	-	0.72
B1	0.01	Non-isolated	Emergent	1	Vermilion	0.01	Off-site	1.5:1	0.02	-	0.02
B2	0.03	Non-isolated	Emergent	1	Vermilion	0.03	Off-site	1.5:1	0.05	-	0.05
Total Isolated Emergent Wetland Impacts						0.00	Total Isolated Emergent Wetland Mitigation		-	-	0.00
Total Jurisdictional Emergent Wetland Impacts						0.40	Total Jurisdictional Emergent Wetland Mitigation		-	-	0.78
Total Jurisdictional Forested Wetland Impacts						0.00	Total Jurisdictional Forested Wetland Mitigation		-	-	0.00
<b>Total Wetland Impacts (All Types)</b>						<b>0.40</b>	<b>Total Wetland Acreage to be Restored or Purchased</b>		<b>0.00</b>	<b>0.00</b>	<b>0.78</b>
<b>BANK CREDIT REQUIRED (Nearest 0.10 ac)</b>						<b>0.8</b>					
<b>GRAND TOTAL MITIGATION ACREAGE</b>						<b>0.80</b>					

\*Off-Site location = Edison Woods Wetland Mitigation Bank

\*\* Off-site jurisdictional emergent (Category 1) acreage requirement based on 1.5:1 mitigation ratio (credits at Edison Woods Wetland Mitigation Bank)  
 Off-site jurisdictional emergent wetland (Category 2) acreage requirement based on 2.0:1 mitigation ratio (credits at Edison Woods Wetland Mitigation Bank)

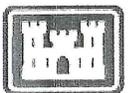


Table 2. PREFERRED ALTERNATIVE Wetland Mitigation Summary: Rumpke Noble Road Landfill - PHASE II

Wetland ID	Size (acres on Site)	Jurisdictional Status	Vegetation Type(s)	Category	Watershed	Impact Acreage	Mitigation Calculations			Mitigation Proposed	
							Mitigation Location*	Mitigation Ratio**	Mitigation Requirement	On-Site	Off-Site (Edison Woods)
A	0.03	Isolated	Emergent	1	Mohican	0.00	N/A	N/A	None	None	None
B	0.14	Isolated	Scrub-Shrub	1	Mohican	0.00	N/A	N/A	None	None	None
C	0.40	Isolated	Emergent	1	Mohican	0.40	On-site	1.5:1	0.60	None	None
D	0.20	Isolated	Emergent	1	Mohican	0.20	On-site	1.5:1	0.30	None	None
E	0.03	Isolated	Emergent/Scrub Shrub	1	Vermilion	0.00	N/A	N/A	None	None	None
F	3.14	Non-Isolated	Scrub-shrub/Forested	2	Vermilion	3.14	Off-site	2.5:1	7.85	None	7.85
H	1.00	Non-Isolated	Scrub-shrub/Forested	2	Vermilion	1.00	Off-site	2.5:1	2.50	None	2.50
G/I***	2.95	Non-Isolated	Emergent	Modified 2	Mohican	2.95	On-site	1.5:1	4.43	4.43	None
G/I***	2.94	Non-Isolated	Scrub-shrub/Forested	Modified 2	Mohican	2.94	On-site	2.0:1	5.88	5.88	None
J	5.60	Non-Isolated	Emergent/Scrub shrub/Forested	Modified 2	Mohican	0.00	N/A	N/A	None	None	None
K	0.12	Non-Isolated	Scrub-shrub/Forested	Modified 2	Mohican	0.00	NA	NA	None	None	None
Total Isolated Emergent Wetland Impacts						0.60	Total Isolated Emergent Wetland Mitigation		0.90		
Total Jurisdictional Emergent Wetland Impacts						2.95	Total Jurisdictional Emergent Wetland Mitigation		4.43		
Total Jurisdictional Forested Wetland Impacts						7.08	Total Jurisdictional Forested Wetland Mitigation		5.88		10.35
Total Wetland Impacts (All Types)						10.63	Total Wetland Acreage to be Restored or Purchased		11.21		10.35

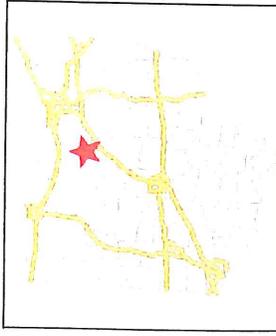
BANK CREDIT REQUIRED (Nearest 0.10 ac)	10.4
GRAND TOTAL MITIGATION ACREAGE	21.61

\*On-Site location=20-acre western portion of Rumpke Horizontal Expansion Site; Off-site=Edison Woods Wetland Mitigation Bank  
 \*\* On-site isolated wetland (Category 1 and 2 emergent) acreage requirement based on 1.5:1 mitigation ratio  
 On-site jurisdictional emergent wetland (Category 2) acreage requirement based on 1.5:1 mitigation ratio  
 On-site jurisdictional forested wetland (Category 2) acreage requirement based on 2:1 mitigation ratio  
 Off-site jurisdictional forested wetland (Category 2) acreage requirement based on 2:1 mitigation ratio (credits at Edison Woods Wetland Mitigation Bank)  
 \*\*\*Original Wetland G and Wetland I were merged per USACE recommendation; feature extends beyond property boundary; acreage indicated represents on-site acreage.

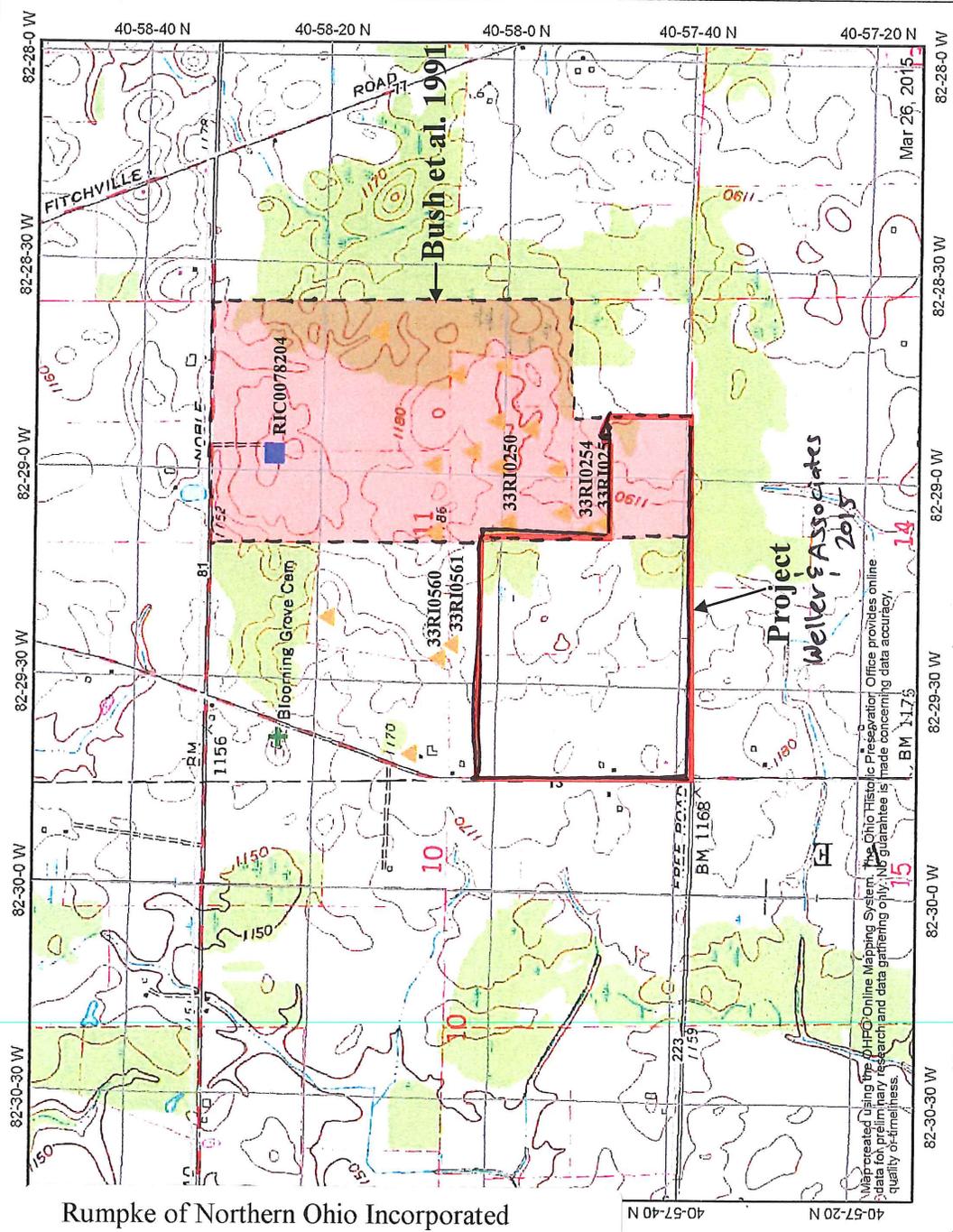
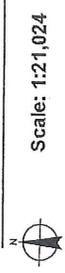




# Internet Mapping Framework



- Legend**
- NR Determinations of Eligibility
  - National Road
  - Highways
  - Roads
  - National Historic Landmarks
  - National Register Listings
  - Archaeological Sites
  - Historic Structures
  - OGS Cemeteries
  - Phase 1
  - Phase 2
  - Phase 3
  - National Register Boundaries
  - Cities
  - Wayne National Forest
  - Counties



Map center: 374687, 4535991 (UTM 17N)



This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Figure 4. OHC online GIS map indicating the location of the project.

Rumpke of Northern Ohio Incorporated  
 D/A Processing No. 1993-05071  
 Richland County  
 Quad: OH- Olivesburg  
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