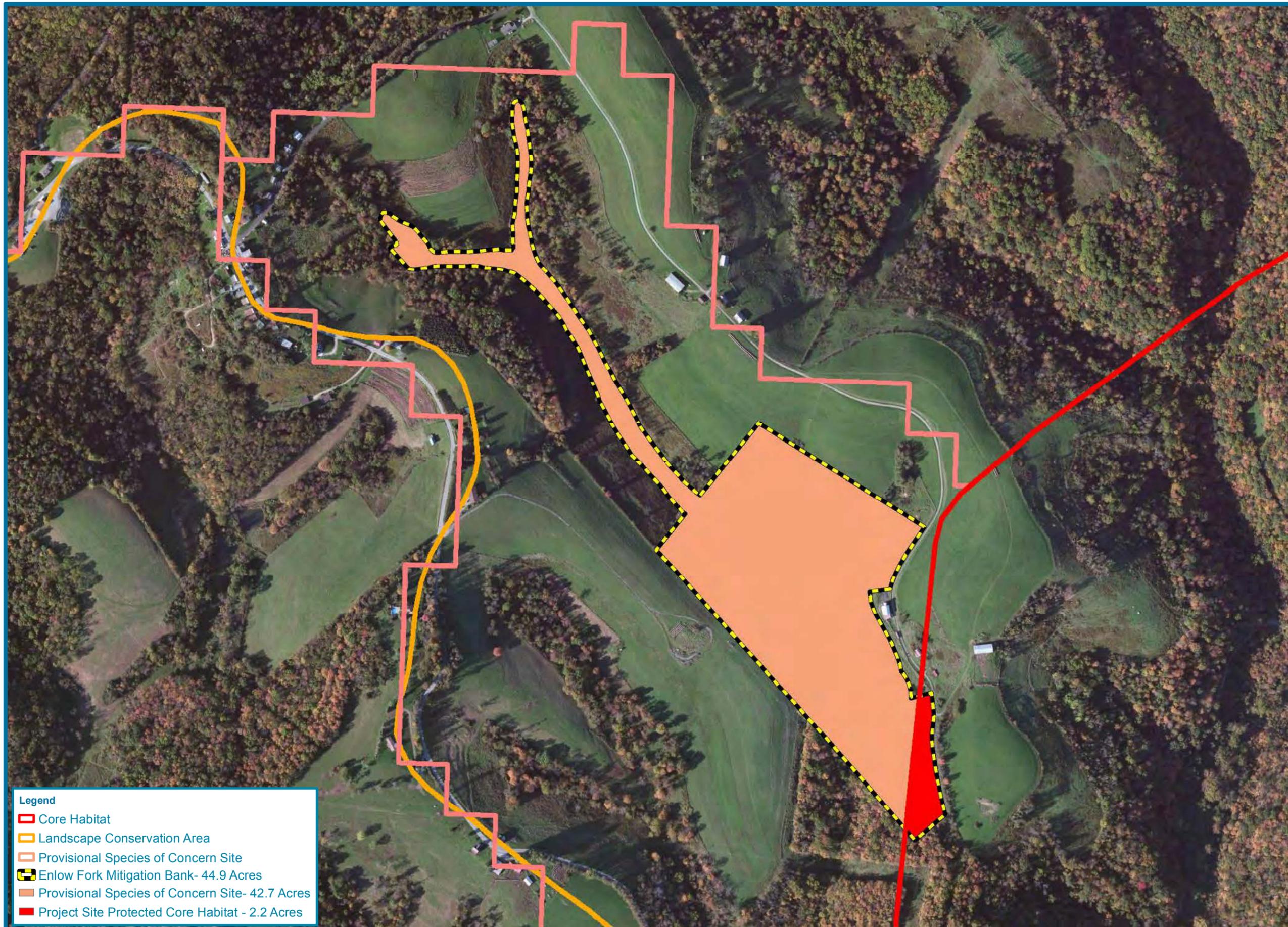


FIGURE 11
ENLOW FORK
MITIGATION BANK
COUNTY NATURAL
HERITAGE INVENTORY MAP
WASHINGTON COUNTY,
PENNSYLVANIA

J/N: 33362
 Date: 06/06/13
 Revised: -----

REFERENCE

- 1.) Aerial Source: USDA/FSA - Aerial Photography Field Office, Dated 2007.
- 2.) CNHI Data from Pennsylvania's Department of Conservation and Natural Resources.



Legend

- Core Habitat
- Landscape Conservation Area
- Provisional Species of Concern Site
- Enlow Fork Mitigation Bank- 44.9 Acres
- Provisional Species of Concern Site- 42.7 Acres
- Project Site Protected Core Habitat - 2.2 Acres

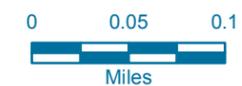
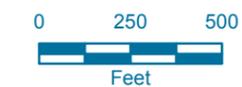
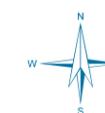


FIGURE 12
ENLOW FORK
MITIGATION BANK
TOPOGRAPHIC MAP
WASHINGTON COUNTY,
PENNSYLVANIA

J/N: 33362
 Date: 06/10/13
 Revised: -----

REFERENCE

No wetlands located within the site area.
 Stream data from PA Dept. of Environmental Protection.
 Aerial imagery from Bing Maps-2011.
 Project limits are approximate.

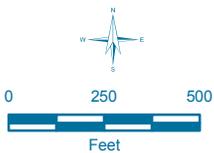
Legend

- Project Limits- 44.9 Acres
- Index Contours





Imagery from USGS Earthexplorer.
Horizontal Datum is NAD 83 PA North.
Study limits are approximate.



J/N: 33362
Date: 06/10/13
Revised: -----

FIGURE 13

ENLOW FORK MITIGATION BANK

1952 HISTORICAL AERIAL

WASHINGTON COUNTY, PENNSYLVANIA





Imagery from USGS Earthexplorer.
Horizontal Datum is NAD 83 PA North.
Study limits are approximate.

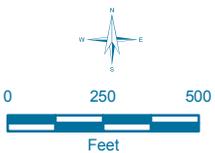
PROJECT STUDY LIMIT: +/- 44.9 ACRES
LATITUDE: 39° 59' 21.98" N
LONGITUDE: 80° 27' 15.89" W
U.S.G.S. QUADRANGLE: WIND RIDGE
DATE: 2010
WATERSHED(S): UPPER OHIO-WHEELING
HYDROLOGIC UNIT CODE(S): 05030106

FIGURE 14

ENLOW FORK MITIGATION BANK

1963 HISTORICAL AERIAL

WASHINGTON COUNTY, PENNSYLVANIA



J/N: 33362
Date: 06/10/13
Revised: -----



EXHIBIT 1
REPRESENTATIVE SITE PHOTOGRAPHS



Photo 1: High quality headwater stream in the northwestern portion of the site. (11-28-12, J. Bohdan)



Photo 2: Wetland seep located along the stream channel in the northwestern portion of the site.
(11-28-12, J. Bohdan)



Photo 3: High quality headwater stream located in the western portion of the site. (11-28-12, J. Bohdan).



Photo 4: Evidence of selective timbering is apparent throughout the western portion of the site. (11-28-12, J. Bohdan)



Photo 5: Degraded palustrine emergent (PEM) wetland due to the historic planting of pasture grass and direct access from cattle. (11-28-12, J. Bohdan)



Photo 6: Photo of an existing culvert crossing through a degraded PEM wetland. (10-23-12, R. Napier)



Photo 7: A degraded PEM wetland due to the historic planting of pasture grass and direct access from cattle. (11-28-12, J. Bohdan)



Photo 8: Actively grazed pasture and lack of sufficient riparian buffer are present throughout the eastern half of the site. (11-28-12, J. Bohdan)



Photo 9: Degraded stream is deeply incised and has no access to a floodplain. Direct cattle access results in hoof shear stress along many of the stream banks. (10-23-12, R. Napier)



Photo 10: The majority of the main tributary within the eastern half of the site is degraded due to multiple anthropogenic alterations to the landscape. (11-28-12, J. Bohdan)



Photo 11: Direct cattle access has caused hoof shear stress and sediment within the stream channel. (9-17-12, B. Virts)



Photo 12: Facing upstream at an ephemeral stream channel. (9-17-12, B. Virts)



Photo 13: Degraded stream channel is incised, lacks a sufficient riparian buffer, and offers poor aquatic habitat due to fine sediments covering the stream bed. (10-23-12, R. Napier)



Photo 14: Facing downstream toward two farm ponds located in line with the main tributary. (10-23-12, R. Napier)



Photo 15: An unoccupied residence along with its outbuildings is located east of the main tributary.
(9-17-12, B. Virts)



Photo 16: The earthen dam below pond has breached causing severe bank erosion and the release of sediment downstream. (9-17-12, B. Virts)



Photo 17: Degraded PEM wetland located downstream from the farm ponds. (11-28-12, J. Bohdan)



Photo 18: A healthy, forested riparian buffer along the main tributary along the eastern boundary of the site. (10-23-12, J. Bohdan)

EXHIBIT 2

USACE FUNCTIONAL RATIO METHOD CALCULATION

USACE Functional Ratio Method Calculation

Functional Ratio Method - Streams

Habitat Type	Restoration Type	Crediting Ratio	Project Size (L.F)	Stream Credits Generated
Perennial Stream	Restoration	1 : 1	2,578	2,578
Perennial Stream	Enhancement	1 : 2.5	1,398	559.2
Perennial Stream	Conservation	1 : 6.67	1,741	1,741
Perennial Stream Subtotal				4,878.2
Intermittent Stream	Restoration	1 : 1	145	145
Intermittent Stream	Enhancement	1 : 2.5	645	258
Intermittent Stream Subtotal				258
Total				5,136.2

Functional Ratio Method - Wetlands

Habitat Type	Restoration Type	Crediting Ratio	Project Size (acres)	Wetland Credits Generated
Forested Wetland	Re-establishment	1 : 1	1.91	1.91
Forest Wetland	Rehabilitation	1 : 1	2.25	2.25
Forested Wetland	Conservation	1 : 6.67	0.39	0.06
Total				4.22

EXHIBIT 3
PNDI RECEIPT

1. PROJECT INFORMATION

Project Name: **Carpenter/Clovis Restoration Site**

Date of review: **2/5/2013 9:34:20 AM**

Project Category: **In-stream / Riverine Activities and Projects,Other**

Project Area: **135.2 acres**

County: **Washington** Township/Municipality: **West Finley**

Quadrangle Name: **WIND RIDGE** ~ ZIP Code: **15377**

Decimal Degrees: **39.991259 N, -80.450563 W**

Degrees Minutes Seconds: **39° 59' 28.5" N, -80° 27' 2" W**



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

- ___ **SIGNED** copy of this Project Environmental Review Receipt
- ___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- ___ Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- ___ USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- ___ A basic site plan(particularly showing the relationship of the project to the physical features such as

wetlands, streams, ponds, rock outcrops, etc.)

____ Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)

____ Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.



5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA. 17105-8552
Fax:(717) 772-0271

U.S. Fish and Wildlife Service
Endangered Species Section
315 South Allen Street, Suite 322, State College, PA. 16801-4851
NO Faxes Please.

PA Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax:(717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: Ben Snyder
Company/Business Name Timmons Group
Address 1001 Boulders Parkway, STE 300
City, State, Zip: Richmond, VA 23225
Phone 804 200-6381 Fax:(804)560-1648
Email: Ben.Snyder@timmons.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review

applicant/project proponent signature

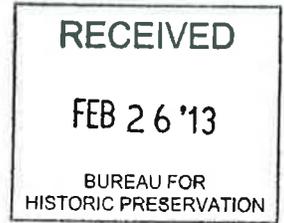
2/7/13
date

EXHIBIT 4

CULTURAL RESOURCE CLEARANCE LETTER

February 21, 2013

Mr. Steven McDougal
Pennsylvania Historical and Museum Commission
Bureau of Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093



**RE: Request to Initiate Consultation
Carpenter/Clovis Restoration Site
West Finley Township, Washington County**

Dear Mr. McDougal,

I am pleased to provide the attached Request to Initiate Consultation for the Carpenter/Clovis Restoration Site to the PHMC for review. The Site is located in West Finley Township within Washington County. The purpose of this coordination request is to ensure that the proposed stream and wetland restoration project does not impact cultural resources.

Please review the attached information supporting the federal and state permitting efforts which will authorize the construction of the Carpenter/Clovis Restoration Site. I will give you a call on Tuesday, February 28th to answer any questions that you may have about the Project. Until then, please do not hesitate to contact me directly at (804) 200-6442 x6381 if you have any questions or require additional information. Thank you for your time and attention to this project.

ER No. 13-0954-125-A Respectfully,
Timmons Group
There are NO HISTORIC PROPERTIES
in the area of potential effect
Date 2/27/13 Reviewer Mark Shaller 
Ben Snyder, EIT
Environmental Scientist

EXHIBIT 5

PASPGP-4 CUMULATIVE IMPACT SCREENING FORM



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT
WATER OBSTRUCTION AND ENCROACHMENT**

DEP USE ONLY	
<input type="checkbox"/>	Category I
<input type="checkbox"/>	Category II
<input type="checkbox"/>	Category III

Applicant / Project Name: Carpenter/Clovis Restoration Site

County(s): Washington

PASPGP-4 CUMULATIVE IMPACTS PROJECT SCREENING FORM

The following questionnaire must be completed and submitted to determine the appropriate Pennsylvania State Programmatic General Permit-4 (PASPGP-4) review procedure. Incomplete submissions will be returned. An "Overall Project," as defined for this form, includes all regulated activities that are reasonably related and necessary to accomplish the "Overall Project" purpose. An "Overall Project" must have a clear purpose, be able to function, and have independent utility. All regulated activities, including the direct and indirect impacts occurring as a result of the regulated activities, which are associated with the "Overall Project", should be considered cumulatively when completing this form. For linear projects, all impacts to waters and wetlands associated with the "Overall Project" should be added together and cumulatively viewed as impacts associated with the "Overall Project", which must have a defined beginning and end point. For linear projects, the application shall include a plan that depicts the location of the beginning and end points of the overall project, and all proposed crossings. See the PASPGP-4 permit document at: www.nab.usace.army.mil/Wetlands%20Permits and Part II, for the definition of Independent Utility and Single and Complete Project (discussion of "Overall Project").

The PASPGP-4 authorizes the discharge of dredged or fill materials and/or the placement of structures, for a single and complete project, including all attendant features, both temporary and/or permanent, which individually or cumulatively results in impacts to 1.0 acre or less of waters of the United States including jurisdictional wetlands. These discharges and placement of structures must comply with all the terms, conditions, and processing procedures identified in this PASPGP-4. Refer to the definitions and sketches in PASPGP-4, Part II for calculating the 1.0-acre eligibility threshold for linear projects.

Determination of PASPGP-4 eligibility – For Category I and II Activities, PADEP/County Conservation Districts will review the applications, if applicable, and verify if work is authorized by PASPGP-4. For Category III Activities, the Corps reviews applications and makes a case by case determination that work is eligible for authorization under PASPGP-4.

Applications for activities that individually or cumulatively impact more than 1.0 acre of waters of the United States, including jurisdictional wetlands, including all attendant features, both temporary and permanent, for a single and complete project; or that impact greater than 250 linear feet of streams, rivers, or other watercourses, except fish habitat enhancement structures authorized under PADEP GP-1 and bank rehabilitation and protection, authorized under PADEP GP-3 that affect 500 linear feet or less, are sent to the Corps as a Category III Activity, under PASPGP-4, Part IV, C, 2. The 1.0 acre area measurement includes the sum total of all waters of the United States including both jurisdictional wetlands and streams, rivers, other watercourses.

- For linear projects, the 250 linear foot Category III Activity threshold for stream impacts is applied to the total cumulative impacts of all crossings associated with the overall linear project, regardless of the type of PADEP authorization or combination of authorizations used to approve the overall project.
- Overall linear projects that have cumulative permanent and temporary impacts to waters of the United States, including jurisdictional wetlands, which exceed 1.0 acre, may still be eligible for PASPGP-4 authorization through a Category III review, provided no single and complete project exceeds the 1 acre threshold (see PASPGP-4, Part II for definition of single and complete project and acreage calculations). This verification of eligibility will be made by the Corps of Engineers.
- For phased projects, including phased linear projects, an overall project plan depicting all previously authorized or proposed impacts to waters and/or wetland is required as part of the application. A plan depicting phase I of the overall project would be submitted with any applications associated with phase I. At a later date, when applications associated with phase II are submitted, an overall plan that depicts the impacts for phase I and phase II is required. For example, if a utility line was previously authorized to run from point A to point B, and the permittee now wants to expand the utility line to point C, the plan will depict from point A to point C. In such a case, the overall project has been expanded to extend from point A to point C; the portion from point A to point B is needed for the section from point B to point C to function and meet the overall project purpose. If plan is not submitted as part of application, the application for the purposes of PASPG-4 will be considered incomplete and the application may be sent to the Corps as a Category III Activity.

SECTION A: PROPOSED IMPACTS

Provide the size of impacts to waters and/or wetlands associated with your application, including temporary and/or permanent impacts, and direct and indirect impacts.

Included in this calculation are the areas directly and indirectly affected by the regulated activities, including the area of waters and/or wetlands filled, drained and/or flooded as a result of the regulated activities. See PASPGP-4, Part II, Definitions, for calculation of linear footage of stream impact, and Part IV, C, 2 for thresholds which require a Corps review of application (Category III Activity).