APPENDIX B PERMITS

U.S. ARMY CORPS OF ENGINEERS APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT 33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -OMB No. 0710-0003 Expires: 30-SEPTEMBER-2015

Public reporting for this collection of information is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

	(ITEMS 1 THRU 4 TO B	E FILLED BY THE CORPS)		
1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE	
	(ITEMS BELOW TO B	E FILLED BY APPLICANT)		
5. APPLICANT'S NAME 8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not requi			IE AND TITLE (agent is not required)	
First - Timothy Middle -	-Michael Last - Morgan	First - Scott Middle	- Last - Nesbit	
Company - Adjutant General's	Department	Company - Tetra Tech, Inc.		
E-mail Address - timothy.m.mor		E-mail Address - Scott.Nesbit@tetratech.com		
6. APPLICANT'S ADDRESS:	rgan.mg@man.mn	9. AGENT'S ADDRESS:	gierratech.com	
Address- 1438 State Route 534 SW		Address- 661 Andersen Drive, Foster Plaza 7		
City - Newton Falls State	2- OH Zip - 44444 Country - US	City - Pittsburgh Stat	e - PA Zip - 15220 Country - USA	
7. APPLICANT'S PHONE NOs. w	WAREA CODE	10. AGENTS PHONE NOs. w/A	REA CODE	
a. Residence b. Busi	iness c. Fax	a. Residence b. Bu	siness c. Fax	
(614)	336-6568	(412)	921-7134	
	STATEMENT O	FAUTHORIZATION		
11. I hereby authorize, supplemental information in suppo	Tetra Tech to act in my behalf a ort of this permit application.	as my agent in the processing of this	application and to furnish, upon request,	
		2016-06-09 ICANT DATE		
			TY	
12. PROJECT NAME OR TITLE	NAME, LOCATION, AND DESCR	ICANT DATE	 ТҮ	
12. PROJECT NAME OR TITLE	NAME, LOCATION, AND DESCR	ICANT DATE	TY	
12. PROJECT NAME OR TITLE	NAME, LOCATION, AND DESCE (see instructions) nent at the Open Demolition Area #2 C	ICANT DATE		
12. PROJECT NAME OR TITLE Sand Creek Culvert Replacem	NAME, LOCATION, AND DESCE (see instructions) nent at the Open Demolition Area #2 C	ICANT DATE RIPTION OF PROJECT OR ACTIVI Crossing	SS (if applicable)	
12. PROJECT NAME OR TITLE Sand Creek Culvert Replacem 13. NAME OF WATERBODY, IF	NAME, LOCATION, AND DESCE (see instructions) nent at the Open Demolition Area #2 C	ICANT DATE RIPTION OF PROJECT OR ACTIVI Crossing 14. PROJECT STREET ADDRE	SS (if applicable)	
 PROJECT NAME OR TITLE Sand Creek Culvert Replacem NAME OF WATERBODY, IF Sand Creek LOCATION OF PROJECT Latitude: "N 41°11'46.6" 	NAME, LOCATION, AND DESCE (see instructions) nent at the Open Demolition Area #2 C KNOWN (if applicable)	Crossing 14. PROJECT STREET ADDRE Address ODA2 Access Road	SS (if applicable) (CRJMTC)	
 PROJECT NAME OR TITLE Sand Creek Culvert Replacem NAME OF WATERBODY, IF Sand Creek LOCATION OF PROJECT Latitude: "N 41°11'46.6" 	NAME, LOCATION, AND DESCR (see instructions) nent at the Open Demolition Area #2 C KNOWN (if applicable) Longitude: «W 81°05'44.9"	Crossing 14. PROJECT STREET ADDRE Address ODA2 Access Road	SS (if applicable) (CRJMTC)	

ENG FORM 4345, DEC 2014

17. DIRECTIONS TO THE SITE

From the City of Ravenna, drive onto State Route 59 headed east. State Route 59 will merge with State Route 5 (Ravenna Warren Road) continuing to head east. After being on State Route 5 for approximately 8 miles, turn left at the entrance to the OHARNG Camp Ravenna Joint Military Training Center. Head straight onto George Road. Turn left onto Newton Falls Road and turn right at the second turnoff from Newton Falls Road. The Sand Creek crossing is approximately 2,000 feet down this road.

18. Nature of Activity (Description of project, include all features)

The culvert replacement action involves the excavation and removal of two, adjacent, 5-foot diameter culverts running underneath the Open Demolition Area 2 access road. The replacement culvert will meet criteria specified by the OHARNG including a concrete, three-sided, arched culvert design; wing walls at the entry and exit; a concrete pad on the road surface capable of supporting a vehicle load rating of HS20; concrete pad minimum width of 14 feet with 2-foot shoulders; and the ability to pass the peak flow rate for the 100-year flood event without overtopping the road. Prior to removal of the existing culverts, a pump, bypass lines, and sandbags (to block 1/2 at a time) will be installed to maintain continuous flow of the creek and enable placement of the footers. Work in Sand Creek will maintain water flow by including a temporary sump with a pump to route water over or around the construction area and by only blocking 1/2 of the stream at a time. Sandbags will also be used to prevent water from entering active construction zones while the footers are being placed. (Continued in Block 20)

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The ultimate purpose of the project is to preserve the integrity of the Open Demolition Area 2 access road and remove existing munitions from the culvert area. The existing culverts are insufficient in supporting peak 100-year flow conditions resulting in overtopping of the culverts and erosion of the road. This project intends to install an open-bottom, concrete, arched culvert (with wing walls) capable of supporting peak 100-year flow conditions as well as a vehicle load rating of HS20. Existing munitions items within the culvert backfill will be removed and properly disposed as part of the project.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

There will be no discharges to wetlands for the duration of this project. After the culvert is replaced, ODOT Type D rip rap (4 inch to 12 inch diameter) will be placed in the stream to armor the banks. Sandbags will be placed temporarily in the stream bed during construction activities to divert flow (1/2 of the stream at a time).

(Continued from Block 18) Adjacent wetlands shall be staked and clearly marked to avoid disturbance. The stream bed will be restored to original elevations. The stream bed beneath the culvert (approximately 400 square feet) will be armored with Ohio Department of Transportation Type D riprap (4-inch to 12-inch rock diameter). Following completion, affected areas will be reseeded using the Camp Ravenna approved seed mix.

21. Type(s) of Material Being Discharge	ed and the Amount of Each Type in Cubic Yards:	
Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
20 cubic yards rip rap	25 cubic yards sand bags (temporary)	
22. Surface Area in Acres of Wetlands of	or Other Waters Filled (see instructions)	
Acres There will be no filling of v	vetlands.	
Linear Feet		
Silt fencing will be installed prior marked so they can be avoided.	. NWI wetlands shown on maps are not a	pank and spoil piles. Adjacent wetlands shall be clearly an accurate representation of wetland locations, be avoided. Impact to stream flow will be minimized

Project will be within the footprint of the original culvert and wetlands can be avoided. Impact to stream flow will be minimized by maintaining flow throughout the project by only blocking off 1/2 of the stream at a time.

24. Is Any Portion of th	ne Work Already Complete?	Yes XNo IF YES,	DESCRIBE THE COMPL	ETED WORK	
					_
 Addresses of Adjoin 	ing Property Owners, Lesse	es, Etc., Whose Property Ad	djoins the Waterbody (if mo	ore than can be entered here, please	attach a supplemental list)
a. Address-					
City -		State -	Zip -		
o. Address-					
City -		State -	Zip -		
c. Address-					
City -		State -	Zip -		
		Sille F	Zib -		
J. Address-					
City -		State -	Zip -		
e. Address-					
City -		State -	Zip -		
6. List of Other Certifica	ates or Approvals/Denials re-	ceived from other Federal, S IDENTIFICATION	State, or Local Agencies f	or Work Described in This A	pplication.
AGENCY	TYPE APPROVAL*	NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
-	•				
27. Application is hereby	ot restricted to zoning, buildin winde for permit or permits	to authorize the work descri			
applicant.	I further certify that I posses	s the authority to undertake	the work described herei	n or am acting as the duly a	uthorized agent of the
SIGNATURE	Maga 9	June 2016	sot neergu tuist oor	Digitally signed by, scott nesbit@tetratech.com DN: DN = scott nesbit@tetratech.com Date: 2018 08:09 14:08 19:05/00*	9 June 2016
		DATE			DATE
	be signed by the person vestigation to be statement in block 11 ha			(applicant) or it may be s	igned by a duly
)1 provides that: Whoever				
	falsifies, conceals, or co- or representations or ma		iting or document know	ving same to contain any	



DEPARTMENT OF THE ARMY PITTSBURGH DISTRICT, CORPS OF ENGINEERS WILLIAM S. MOORHEAD FEDERAL BUILDING 1000 LIBERTY AVENUE PITTSBURGH, PA 15222-4186

REPLY TO ATTENTION OF

August 12, 2016

Operations Division Regulatory Branch 2016-1142

Timothy Morgan Adjutant General's Department 1438 State Route 534 SW Newton Falls, Ohio 44444

Dear Mr Morgan:

I refer to your Department of the Army Application, regarding your proposal to replace the existing 24 feet culvert, including 12 feet wing walls and an additional 20 feet of rip rap on Sand Creek in the Camp Ravenna, Paris Township, Portage County, Ohio.

Activities associated with projects of this type are authorized by Nationwide Permit (NWP) No. 14 (see enclosure), previously issued by the Corps of Engineers, for purposes of Section 404 of the Clean Water Act as published in the February 21, 2012 issue of the Federal Register.

Enclosed is a list of conditions which must be followed for the Nationwide Permit to be valid. Adherence to these conditions will permit you to proceed with the proposed project. **Please Note**, the enclosed Compliance Certification Form must be signed and returned to this office upon completion of the proposed work.

This verification is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2017. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit.

The issuance of this Nationwide Permit will not relieve you of the responsibility to obtain any other required state, local, or Federal authorizations. If you have any questions, please contact Michael Fodse at (412)395-7575 or via email at Michael.M.Fodse@usace.army.mil. Please complete our customer survey online and provide us with feedback at <u>http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0</u>.

Sincerely,

Hancy Mullen Nancy Mullen

Northern Section Chief Regulatory Branch

Enclosure Copy Furnished: Jeffery Boyles (OEPA)

Compliance Certification Form

PERMIT NO: 2016-1142

NAME OF PERMITTEE: Adjutant General's Department

DATE OF ISSUANCE: August 12, 2016

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers Pittsburgh District Regulatory Branch, Room 2200 William S. Moorhead Federal Building 1000 Liberty Avenue Pittsburgh, PA 15222-4186

Please note that your permitted activity is subject to compliance inspection by a U.S. Army Corps of Engineers Representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

NATIONWIDE PERMITS FOR THE STATE OF OHIO

CORPS OF ENGINEERS REGULATORY PROGRAM ISSUANCE OF NATIONWIDE PERMITS WITH OHIO EPA 401 WATER QUALITY CERTIFICATION

NWP 14

14. <u>Linear Transportation Projects</u>. Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters the loss of greater than 1/3-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

This NWP also authorizes temporary structures, fills, and work necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

<u>Notification</u>: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds 1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 31.) (Sections 10 and 404)

<u>Note</u>: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under Section 404(f) of the Clean Water Act (see 33 CFR 323.4).

Nationwide Permit 14 Specific Regional Conditions:

(a) Notification in accordance with Nationwide Permit General Condition 31 and Regional General Condition 6 is required for the following activities:

• All activities in Section 10 waters;

- Temporary structures, work, and discharges (including cofferdams) necessary for construction activities, access fills, or dewatering of construction sites occurring in wetlands, perennial streams, or Section 10 waters when the primary activity is otherwise authorized by the Corps of Engineers. The Notification must include a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions; and
- Stream impacts greater than 200 linear feet.

(b) Interior roadways for recreational facilities and residential, commercial, and institutional developments are not authorized by this nationwide permit.

(c) The loss of waters of the U.S. is limited to 300 feet of stream bed, unless for intermittent and ephemeral stream beds the district engineer waives the 300 linear foot limit by making a written determination concluding that the discharge will result in minimal adverse effects.

Ohio State Certification Special Limitations and Conditions:

- 1. Ohio state certification general limitations and conditions apply to this nationwide permit.
- 2. Individual state water quality certification is required for use of this nationwide permit when temporary or permanent impacts are proposed on or in the following waters:
 - a. Temporary or permanent to category 3 wetlands are limited to less than 0.1 acres for activities involving repair, maintenance, replacement, or safety upgrades to existing infrastructure that meets the definition of public need;
 - b. category 1 and category 2 wetlands when impacts exceed one-half acre;
 - c. streams with the aquatic life use designation of exceptional warmwater habitat, cold water habitat, seasonal salmonid or any equivalent designation and/or performance;
 - d. streams with an antidegradation category of superior high quality water, outstanding national resource water or outstanding state water;
 - e. state wild and scenic rivers;
 - f. national wild and scenic rivers;
 - g. general high quality water bodies which harbor federally listed threatened and/or endangered mussel species, such as Killbuck Creek in Coshocton County and Pymatuning Creek in Ashtabula County; and
 - h. all other streams and lake shorelines when impacts exceed 300 linear feet.

- 3. For an individual stream, the combined length of an existing culvert and culvert extension shall not exceed 500 linear feet of which no more than 300 linear may be new culvert.
- 4. Temporary or permanent impacts as a result of stream crossings shall not exceed a total of three per stream mile per stream.

Project specific Coastal Zone Management Act Federal Consistency Determinations are required from the Ohio Department of Natural Resources for all activities within Lake Erie, including Maumee Bay and Sandusky Bay.

C. Nationwide Permit General Conditions

<u>Note</u>: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR §§ 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR § 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation.

(a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. <u>Aquatic Life Movements</u>. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted,

bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. <u>Spawning Areas</u>. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. <u>Migratory Bird Breeding Areas</u>. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. <u>Shellfish Beds</u>. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. <u>Suitable Material</u>. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. <u>Water Supply Intakes</u>. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. <u>Adverse Effects From Impoundments</u>. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. <u>Management of Water Flows</u>. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. <u>Fills Within 100-Year Floodplains</u>. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. <u>Equipment</u>. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. <u>Soil Erosion and Sediment Controls</u>. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be

permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. <u>**Removal of Temporary Fills**</u>. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. <u>**Proper Maintenance**</u>. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. <u>Single and Complete Project</u>. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. <u>Wild and Scenic Rivers</u>. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. <u>**Tribal Rights**</u>. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species.

(a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the

activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete preconstruction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ipac and http://www.noaa.gov/fisheries.html respectively.

19. <u>Migratory Birds and Bald and Golden Eagles</u>. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties.

(a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the preconstruction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of

any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. <u>Discovery of Previously Unknown Remains and Artifacts</u>. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. <u>Designated Critical Resource Waters</u>. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. <u>Mitigation</u>. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) - (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre,

it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to an herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. <u>Safety of Impoundment Structures</u>. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. <u>Water Quality</u>. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. <u>Coastal Zone Management</u>. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. <u>Regional and Case-By-Case Conditions</u>. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. <u>Use of Multiple Nationwide Permits</u>. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. <u>**Transfer of Nationwide Permit Verifications**</u>. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

(Transferee)

(Date)

30. <u>Compliance Certification</u>. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible

mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(1)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification.

(a) <u>Timing</u>. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires

a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) <u>Contents of Pre-Construction Notification</u>: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed project;

(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal

applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) <u>Form of Pre-Construction Notification</u>: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination:

(1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation

activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

D. District Engineer's Decision

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. For a linear project, this determination will include an evaluation of the individual crossings to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to intermittent or ephemeral streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51 or 52, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in minimal adverse effects. When making minimal effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

2. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are

minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

3. If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (a) That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (c) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period, with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

E. Further Information

1. District engineers have authority to determine if an activity complies with the terms and conditions of an NWP.

2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.

3. NWPs do not grant any property rights or exclusive privileges.

4. NWPs do not authorize any injury to the property or rights of others.

5. NWPs do not authorize interference with any existing or proposed Federal project.

F. Nationwide Permits Regional General Conditions

1. Nationwide Permits shall not authorize any activity which impacts bogs and/or fens.

2. No Nationwide permit may be used in Lake Erie for purposes of diverting water from the Great Lakes.

3. Nationwide Permits shall not authorize any activity which will trap littoral material and interrupt littoral transport within Lake Erie, Sandusky Bay, and Maumee Bay.

4. *ODNR In-Water Work Exclusion Dates*: Any work associated with a nationwide permit cannot take place during the restricted period of the following ODNR, Division of Wildlife Statewide In-Water Work Restrictions unless the applicant notifies the district engineer in accordance Nationwide Permit General Condition 31 and receives written approval from the Corps:

<u>Location</u>	 Restricted Period
Salmonid streams ¹ Percid streams ² Other streams ³	9/15 - 6/30 3/15 - 6/30 4/15 - 6/30

1. Arcola Creek (entire reach), Ashtabula River (Hadlock Rd. to mouth), Ashtabula Harbor, Aurora Branch of the Chagrin River (RM 0.38 to mouth), Big Creek ((Grand River drainage basin) Girdled Road to mouth), Chagrin River (Chagrin Falls to mouth), Cold Creek (entire reach), Conneaut Creek (entire reach), Conneaut Harbor, Corporation Creek ((Chagrin River RM 0.27) entire reach), Cowles Creek (entire reach), Ellison Creek ((Grand River drainage basis) entire reach), Euclid Creek (entire reach), Grand River (to dam at Harpersfield Covered Bridge Park just upstream of the S.R. 534 bridge to mouth)/Fairport Harbor, Gulley Brook ((Chagrin River RM 5.54) entire reach), Indian Creek (entire reach), Kellogg Creek (Grand River drainage basin) entire reach), Paine Creek ((Grand River drainage basin) entire reach), Rocky River (Cedar Point Rd. (East Branch/West Branch confluence) to mouth), Smokey Run ((Conneaut Creek RM 3.5) entire reach), Turkey Creek (entire reach), Vermilion River (dam at Wakeman upstream of the S.R. 20/60 bridge to mouth), Ward Creek ((Chagrin River RM 1.0) entire reach), Wheeler Creek (entire reach), Whitman Creek (entire reach).

2. Cuyahoga River (dam below the S.R. 82 bridge east of Brecksville (Chippewa Rd.) to mouth), Great Miami River (dam south of New Baltimore to mouth), Hocking River (lower section), Huron River (from the East Branch/West Branch confluence to Lake

Erie), Little Miami River (lower section), Maumee River (split dam at Mary Jane Thurston State Park and Providence Park in Grand Rapids to mouth), Maumee Bay, Muskingum River (to Devola Dam No. 2 off S.R. 60 north of Marietta to mouth), Ohio River (entire reach), Portage River (entire reach), Sandusky River (to Ballville Dam off River Road in Fremont to mouth), Sandusky Bay, Scioto River (lower section), Toussaint River (entire reach).

3. Class 3 primary headwater streams (watershed $\leq 1 \text{ mi}^2$), EWH, CWH, WWH, or streams with T&E species. Includes Lake Erie & bays not listed above. Special conditions (such as occurrence of T&E species) may mandate local variation of restrictions.

Note: This condition does not apply to Ohio Department of Transportation projects that are covered under the "Memorandum of Agreement between Ohio Department of Transportation, Federal Highway Administration, Ohio Department of Natural Resources, and United States Fish and Wildlife Service For Interagency Coordination For Highway Projects Which Involve Stream Crossings, Bank Stabilization, and/or Minor Wetland Fills.

5. *Waters of Special Concern*: The applicant must notify the district engineer in accordance with Nationwide Permit General Condition 31 and Regional General Condition 6 for activities in the following resources:

(a) *Category 3 Wetlands*: Notification is required for all temporary or permanent impacts to Category 3 wetlands as determined through use of the latest approved version of Ohio EPA's Ohio Rapid Assessment Method (ORAM) for wetland evaluation **long form.**

(b) *Ohio Stream Designations*: Notification is required for all temporary or permanent impacts to Exceptional Warmwater Habitat, Cold Water Habitat, Seasonal Salmonid, or any equivalent designation; or water bodies with an antidegradation category of Superior High Quality Water, Outstanding National Resource Water, or Outstanding State Waters as determined by Ohio EPA except for NWP 1, 2, 3, 9, 10, 11, 27, 28, 32, and 35 or maintenance activities covered under NWPs 7 and 12. The current list of these streams can be found on the Ohio EPA web-site at:

<u>http://www.epa.ohio.gov/dsw/rules/3745_1.aspx</u>. You should look for these designations under the aquatic life use of the stream within its basin and under the "Anti-deg Rule #05."

(c) *State Wild and Scenic Rivers*: Notification is required for all activities in State Wild and Scenic Rivers. The following are **State Wild and Scenic Rivers**:

The Ashtabula River

• The Ashtabula River from the confluence of the East Branch and West Branch of the Ashtabula River at river mile 27.54, downstream to the East 24th Street bridge crossing at river mile 2.3.

- The East Branch of the Ashtabula River from Pennline Fen at river mile 12.0, downstream to the mouth of the East Branch at river mile 0.0.
- The West Branch of the Ashtabula River from the North Richmond Road (Co. Rd. 302) bridge crossing at river mile 9.05, downstream to the mouth of the West Branch at river mile 0.0.
- Miles designated (approximate): Scenic 46

Big and Little Darby Creeks

- Big Darby Creek from the Champaign/Union County line downstream to the U.S. Rt. 40 bridge, from the northern boundary of Battelle-Darby Creek Metro Park to the confluence with the Little Darby Creek downstream to the Scioto River.
- Little Darby Creek from the Lafayette-Plain City Road bridge downstream to the confluence with Big Darby Creek.
- Miles designated (approximate): 84

Chagrin River

- Aurora Branch from St. Rt. 82 bridge downstream to confluence with the Chagrin River.
- Chagrin River from confluence with Aurora Branch downstream to U.S. Rt. 6 bridge.
- Chagrin River from Woodiebrook Road bridge crossing downstream to the confluence with Aurora Branch of the Chagrin River in Bentleyville.
- East Branch from Heath Road bridge downstream to confluence with the Chagrin River.
- Miles designated (approximate): Scenic 71

Conneaut Creek

- *Scenic Segment:* Creek Road bridge crossing to the Penn Central Railroad bridge crossing at river mile 2.0 in Conneaut.
- *Wild Segment:* Ohio/Pennsylvania border at river mile 23.83 to the Creek Road bridge crossing at river mile 7.39.
- Miles designated (approximate): Scenic 5.39, Wild 16.44, Total 21.83

Grand River

- *Wild segment* from Harpersfield covered bridge downstream to Norfolk and Western Railroad trestle south of Painesville.
- *Scenic segment* from U.S. Rt. 322 bridge in Ashtabula County downstream to Harpersfield covered bridge.
- Miles designated (approximate): Scenic 33, Wild 23, Total 56

Kokosing River

• Kokosing River from Knox/Morrow County line to confluence with Mohican River.

- North Branch of Kokosing from confluence with East Branch downstream to confluence with main stem.
- Miles designated (approximate): 48

Little Beaver Creek

- Wild segments West Fork from 1/4 mile downstream from Twp. Rd. 914 to confluence with Middle Fork. North Fork from Twp. Rd. 952 to confluence with Little Beaver Creek. Little Beaver Creek from confluence of West and Middle Forks downstream to 3/4 mile north of Grimm's Bridge.
- Scenic segments North Fork from Ohio-Pennsylvania line downstream to Jackman Road. Middle Fork from Elkton Road. (Twp. Rd. 901) downstream to confluence with West Fork. Little Beaver Creek from 3/4 mile north of Grimm's Bridge downstream to the Ohio-Pennsylvania line.
- Miles designated (approximate): Wild 20, Scenic 16, Total 36

Little Miami River

- Clermont County line at Loveland to headwaters, including North Fork, Clermont County line at Loveland to confluence with East Fork and from the confluence with East Fork to Ohio River.
- Miles designated (approximate): 105

<u>Maumee River</u>

- *Scenic segment* Ohio-Indiana line to St. Rt. 24 bridge west of Defiance.
- *Recreational segment* St. Rt. 24 bridge west of Defiance to U.S. Rt. 25 bridge near Perrysburg.
- Miles designated (approximate): Scenic 43, Recreational 53

Mohican River

- The entire main stem of the Mohican River from the confluence of the Clear Fork to the confluence with the Kokosing State Scenic River.
- The Clear Fork of the Mohican River from the base of the Pleasant Hill Dam to the confluence with the Black Fork of the Mohican River.
- Miles designated (approximate): 32.3

Olentangy River

- Delaware Dam to Old Wilson Bridge Road in Worthington.
- Miles designated (approximate): 22

<u>Sandusky River</u>

- U.S. Rt. 30 in Upper Sandusky to Roger Young Memorial Park in Fremont.
- Miles designated (approximate): 65

Stillwater River System

- *Recreational segment* Englewood dam to confluence with Great Miami River.
- *Scenic segments* Stillwater River from Riffle Road bridge in Darke County to Englewood dam.
- Greenville Creek from the Ohio-Indiana state line to the confluence with the Stillwater.
- Miles designated (approximate): Scenic 83, Recreational 10

Upper Cuyahoga River

- Troy-Burton Township line in Geauga County to St. Rt. 14.
- Miles designated (approximate): Scenic 25

(d) *National Wild and Scenic Rivers*: Notification is required for all work in components of the National Wild and Scenic River System. The following are components of the **National Wild and Scenic River System**:

Big and Little Darby Creeks (National Wild and Scenic River System):

- Big Darby Creek from Champaign-Union County line downstream to the Conrail railroad trestle and from the confluence with the Little Darby Creek downstream to the Scioto River.
- Little Darby Creek from the Lafayette-Plain City Road bridge downstream to within 0.8 mile from the confluence with Big Darby Creek.
- Total designation is approximately 82 miles.

Little Beaver Creek (National Wild and Scenic River System):

- Little Beaver Creek main stem, from the confluence of West Fork with Middle Fork near Williamsport to mouth.
- North Fork from confluence of Brush Run and North Fork to confluence of North Fork with main stem at Fredericktown.
- Middle Fork from vicinity of Co. Rd. 901 (Elkton Road) bridge crossing to confluence of Middle Fork with West Fork near Williamsport.
- West Fork from vicinity of Co. Rd. 914 (Y-Camp Road) bridge crossing east to confluence of West Fork with Middle Fork near Williamsport.
- Total designation is 33 miles.

Little Miami (National Wild and Scenic River System)

- Little Miami River St. Rt. 72 at Clifton to the Ohio River
- Caesar Creek: lower two miles of Caesars Creek.
- Total designation is 94 miles.

(e) *Endangered Species*: Due to the potential presence of Federally threatened or endangered species or their habitats, Notification is required for all work in the following waterway or township of the corresponding county:

County	Waterway	Township
Adams	Ohio Brush Creek, Ohio River, Scioto Brush Creek, South Fork Scioto Brush Creek, West Fork Ohio Brush Creek	
Allen	Auglaize River, Cranberry Creek, Ottawa River, Riley Creek, Sugar Creek	
Ashtabula	Grand River, Pymatuning Creek	
Athens	Ohio River	
Auglaize	Auglaize River, Pusheta Creek, St. Marys River	
Belmont	Ohio River	
Brown	Eagle Creek, East Fork Eagle Creek, East Fork Little Miami River, East Fork Whiteoak Creek, Ohio River, Straight Creek, West Fork Eagle Creek, Whiteoak Creek	
Butler	Dicks Creek, Dry Fork Whitewater River, Elk Creek, Four Mile Creek, Great Miami River, Indian Creek, Sevenmile Creek	
Champaign	Chapman Creek, Kings Creek, Mad River, Nettle Creek	
Clark	Beaver Creek, Chapman Creek, Honey Creek, Little Miami River, Mad River, Mud Run	Bethel
Clermont	East Fork Little Miami River, Indian Creek, Little Miami River, O'Bannon Creek, Ohio River, Stonelick Creek	
Clinton	Anderson Fork, Cowan Creek, Little East Fork, Rattlesnake Creek, Todd Fork Little Miami River	
Columbiana	Ohio River	
Coshocton	Doughty Creek, Killbuck Creek, Kokosing River, Mill Creek, Mohican River, Muskingum River, Tuscarawas River, Wakatomika Creek, Walhonding River, White Eyes Creek, Wills Creek	
Crawford	Broken Sword Creek, Olentangy River, Sandusky River, Sycamore Creek	
Darke	Greenmile Creek, Painter Creek, Stillwater River, Swamp Creek, West Branch Greenmile Creek	
Defiance	Auglaize River, Gordon Creek, Lick Creek, Lost Creek, Maumee River, Mud Creek, North	Milford

	Powell Creek, South Powell Creek, St. Joseph River, Tiffin River	
Delaware	Alum Creek, Big Walnut Creek, Bokes Creek, Mill Creek, Olentangy River, Scioto River, Whetstone Creek	
Fairfield	Clear Creek, Hocking River, Rush Creek, Salt Creek, Walnut Creek	
Fayette	Compton Creek, Deer Creek, East Fork Paint Creek, North Fork Compton Creek, Paint Creek, Rattlesnake Creek, Sugar Creek	
Franklin	Alum Creek, Big Darby Creek, Big Walnut Creek, Blacklick Creek, Hellbranch Run, Little Darby Creek, Olentangy River, Scioto River, Walnut Creek	
Fulton	Bad Creek, Brush Creek, Mill Creek, Swan Creek, Tenmile Creek, Tiffin River	
Gallia	Ohio River	
Greene	Caesar Creek, Little Miami River, Mad River, Massies Creek, Mud Run	
Hamilton	Dry Fork Whitewater River, Great Miami River, Mill Creek, Ohio River, West Fork Mill Creek, Whitewater River	
Hancock	Blanchard River, Eagle Creek, Ottawa Creek, Riley Creek	
Hardin	Blanchard River, Ottawa River, Panther Creek, Scioto River, Taylor Creek	Blanchard, Jackson
Henry	Bad Creek, Beaver Creek, Brush Creek, Lost Creek, Maumee River, South Turkeyfoot Creek, Turkeyfoot Creek	
Highland	Baker Fork, East Fork Little Miami River, East Fork Whiteoak Creek, Lees Creek, Paint Creek, Rattlesnake Creek, Rocky Fork, Whiteoak Creek	
Holmes		Prairie
Jefferson	Ohio River	
Lake	Grand River	
Lawrence	Ohio River	
Logan	Cherokee Mans Run, Great Miami River, Mad River, Mill Creek, Muchinippi Creek, Rush Creek, Stoney Creek	
Lucas	Maumee River, Swan Creek, Tenmile Creek	Jerusalem
Madison	Big Darby Creek, Bradford Creek, Deer Creek, Little Darby Creek, Paint Creek, Spring Fork, Walnut Run	

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Sandusky	East Branch Sandusky River, Green Creek, Little Muddy Creek, Muddy Creek, Muskellunge Creek, Nine Mile Creek, Pickerel Creek, Portage River, Sandusky River, South Creek, Sugar Creek, Toussaint Creek, Wolf Creek (Portage River), Wolf Creek (Sandusky River)	Riley
Scioto	Little Scioto River, Ohio River, Pine Creek, Rocky Fork, Scioto Brush Creek, Scioto River, South Fork Scioto Brush Creek, Turkey Creek	Rush, Union
Seneca	East Branch Sandusky River, Green Creek, Honey Creek, Rock Creek, Sandusky River, Wolf Creek	
Shelby	Great Miami River, Leatherwood Creek, Loramie Creek, Mile Creek, Mosquito Creek	
Trumbull	Grand River, Pymatuning Creek	
Union	Big Darby Creek, Bokes Creek, Little Darby Creek, Mill Creek, Rush Creek	
Van Wert	Black Creek, Blue Creek, Dog Creek, Hagerman Creek, Hoaglin Creek, Little Auglaize River, Maddox Creek, St. Marys River, Town Creek	
Warren	Clear Creek, Great Miami River, Little Miami River, Todd Fork	
Washington	Muskingum River, Ohio River	
Wayne		Clinton, Wooster
Williams	Bear Creek, Brush Creek, Clear Fork, Eagle Creek, East Branch St. Joseph River, Fish Creek, Lick Creek, Mill Creek, Nettle Creek, St. Joseph River, Tiffin River, West Branch St. Joseph River	Bridgewater, Center, Florence, Jefferson, Madison, Northwest, St. Joseph, Superior
Wood	Beaver Creek, Brush Creek, Bull Creek, Cedar Creek, Crane Creek, Cutoff Ditch, East Branch Portage River, Maumee River, Middle Branch Portage River, Portage River, Rocky Ford, South Branch Portage River, Toussaint Creek	
Wyandot	Broken Sword Creek, Sandusky River, Sycamore Creek, Tymochtee Creek	

Note: As mentioned in General Condition 18-*Endangered Species*, Federal Agencies should follow their own procedures for complying with the requirements of the ESA. Federal applicants must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements.

(f) *Critical Resource Waters*: Notification is required for all work in Critical Resource Waters. The following are designated as **Critical Resource Waters**:

- Special habitat waters of Lake Erie including the shoreline, off shore islands, rock outcrops, and adjacent waters within the boundaries defined as 82° 22' 30" West Longitude, 83° 07' 30" West Longitude, 41° 33' 00" North Latitude, and 42°00'00" North Latitude.
- In Ohio, two areas have been designated critical habitat for the piping plover (<u>Charadrius melodus</u>) and are defined as lands 0.62 miles inland from normal high water line. Unit OH-1 extends from the mouth of Sawmill Creek to the western property boundary of Sheldon Marsh State Natural Area, Erie County, encompassing approximately 2.0 miles. Unit OH-2 extends from the eastern boundary line of Headland Dunes Nature Preserve to the western boundary of the Nature Preserve and Headland Dunes State Park, Lake County, encompassing approximately 0.5 mile.

(g) *Oak Openings:* Notification is required for all activities conducted in the Oak Openings Region of Northwest Ohio located in Lucas, Henry, and Fulton counties. For a map of the Oak Openings Region, visit <u>http://www.oakopen.org/maps/</u>.

6. *Notification Submittals*: In addition to the information required under Nationwide Permit General Condition 31, the following information is needed for all Notifications:

(a) Drawings: The Notification must include project drawings on 8 1/2" x 11" paper. The illustrations must clearly depict the project boundaries and include all known elements and phases of the proposed work. Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map (i.e. a location map such as a USGS topographical map), a Plan View and a Typical Cross-Section. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view or cross-section). In addition, each illustration should be identified with a figure or attachment number.

(b) United States Fish & Wildlife Service (USFWS): Prior to submitting notifications, it is recommended that the applicant contact the USFWS, Ohio Ecological Services Field Office by phone at (614) 416-8993, by e-mail at <u>ohio@fws.gov</u>, through their website at <u>http://www.fws.gov/midwest/ohio</u>, or by writing to 625 Morse Road, Suite 104, Columbus, OH 43230. The USFWS can provide information to assist in complying with Nationwide Permit General Condition 18 pertaining to endangered species and Nationwide Permit General Condition 19 pertaining to migratory birds and bald and golden eagles. The USFWS can also provide project recommendations specific to Federal Candidate species and the bald eagle (*Haliaeetus leucocephalus*). Federal Candidate species are those for which the USFWS has sufficient information to propose them as endangered or threatened under the Endangered Species Act (ESA), but for which a listing proposal is precluded by other higher priority listing activities. Information

regarding Federal Candidate species can be found at: http://www.fws.gov/midwest/endangered/section7/s7process/index.html.

Bald Eagle: Applicants must ensure that activities associated with Nationwide Permits do not result in unpermitted take of bald eagles (*Haliaeetus leucocephalus*) under the Bald and Golden Eagle Protection Act and Migratory Bird Treaty Act. Information regarding activities that may result in take of bald eagles, thus requiring a permit from the USFWS under the Act, can be found at http://www.fws.gov/midwest/MidwestBird/EaglePermits/index.html. Applicants should determine whether a bald eagle nest is located near a permitted activity by contacting the

determine whether a bald eagle nest is located near a permitted activity by contacting the U.S. Fish and Wildlife Service, Ohio Ecological Services Field Office, 4625 Morse Road, Suite 104, Columbus, Ohio 43230, phone: 614-416-8993, http://www.fws.gov/midwest/Ohio/.

All relevant information obtained from the USFWS should be submitted with the Notification.

(c) Cultural Resources: The Notification must provide justified conclusions concerning whether or not the proposed activity could affect any historic properties listed, determined to be eligible, or which you have reason to believe may be eligible, for listing on the National Register of Historic Places. This data shall be utilized by the Corps to determine if the proposed activity has the potential to affect historic properties. Be advised that further effort may be required to take into account the effects the proposed activity may have on historic properties, as required by the National Historic Preservation Act of 1966.

To ensure compliance with Nationwide Permit General Condition 20, the following basic project information is needed:

(1) A detailed description of the project site in its current condition (i.e. prior to construction activities) including information on the terrain and topography of the project site, the acreage of the project site, the proximity of the project site to major waterways, and any known disturbances within the project site. Photographs, keyed to mapping, are also needed which show the site conditions and all buildings or structures both within the project site and on adjacent parcels.

(2) A detailed description of past land uses in the project site. Particular attention should be given to past activities pertinent to the potential for historic properties to exist in the project area. Photographs and maps supporting past land uses should be provided as available.

(3) A detailed description of the construction activities proposed to take place on the project site and a comparison of how the site will look after completion of the project compared to how it looked before the project.

(4) Information regarding any past cultural resource studies or coordination pertinent to the project area, if available.

(5) Any other data the applicant deems pertinent.

The applicant is encouraged to consult with professionals meeting the Professional Qualification Standards as set forth in the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 FR 44716) during this data gathering process. These professionals can assist with compiling the basic project information discussed above and should provide recommendations as to whether or not the proposed project has the potential to affect historic properties and if further effort is required or not required to identify historic properties or assess potential effects to historic properties. These professionals can also compile basic preliminary review information to submit to the district engineer. A preliminary resource review encompasses a search radius of 2 miles, centered on the project area, and consists of the following resources:

- (1) OHPO United States Geological Survey (USGS) 7.5' series topographic maps;
- (2) Ohio Archaeological Inventory (OAI) files;
- (3) Ohio Historic Inventory files (OHI);
- (4) OHPO Cultural Resources Management (CRM)/contract archaeology files;
- (5) National Register of Historic Places (NRHP) files including Historic Districts; and
- (6) County atlases, histories and historic USGS 15' series topographic map(s).

As an alternative to submitting the information described above, the applicant may choose to complete the Ohio Historic Preservation Office Section 106 Review Project Summary Form or request comments from the Ohio Historic Preservation Office and district engineer on specific requirements appropriate to the particular circumstances of the project. Similarly, the applicant may choose to hire someone meeting the Professional Qualification Standards as set forth in the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 FR 44716) to conduct what they recommend to be appropriate historic property identification efforts (e.g. archeological survey and/or historic structure inventories) to expedite the review process. Be advised, undertaking identification efforts prior to consideration of the potential of the proposed activity to affect historic properties by the Corps in not without risk. It is possible that previous efforts could be determined insufficient or even potentially unnecessary once reviewed by the Corps and other consulting parties.

Upon receipt and review of the information listed above, the Corps will evaluate the submittal. If the Corps determines the proposed activity has the potential to cause effects to a historic property, the Corps will seek consulting parties. In consultation with those
parties, the Corps will scope appropriate historic property identification efforts and take into account the effect of the proposed activity on historic properties.

(d) National Wild and Scenic Rivers: Prior to submitting Notifications for work in a National Wild and Scenic River System, it is recommended that the applicant contact the National Park Service Regional Wild and Scenic Rivers Specialist, at the Midwest Regional Office, 601 Riverfront Drive, Omaha, Nebraska 68102, for assistance in complying with Nationwide Permit General Condition 16.

(e) 401 Water Quality Certification: For activities that result in between 1/10 and $\frac{1}{2}$ acre of loss of waters of the U.S., two copies of the Notification must be submitted. In order to determine if a project meets the terms and conditions of Ohio EPA's 401 water quality certification the following additional information must be submitted:

1) To determine the quality of the wetlands on the site, all wetland delineations must include the latest approved version of the Ohio Rapid Assessment Method (ORAM) for wetland evaluation **long form**; and

2) Photographs of all the waterbodies.

Prior to submitting Notifications, the applicant may contact Ohio EPA, Division of Surface Water by writing to (614) 644-2001 at P.O. Box 1049, Columbus, Ohio 43216-1049 and request verification of the ORAM score of the wetlands on the site to expedite the permit process. All relevant information obtained from Ohio EPA should be submitted with the Notification.

(f) Agency Coordination: In an effort to expedite full agency permit review, it is requested that the applicant submit five (5) copies of the Notification package when the Notification requires full agency coordination in accordance with Nationwide Permit General Condition 31 (d)(2). Applicants are encouraged to submit this information in electronic format as CDs, in order to minimize the use of paper.

(g) Floodplain Coordination: All Notifications must include a copy of the applicable FIRM map. You can get a FIRMette free from: <u>http://www.msc.fema.gov</u>. From this page select the "Product Catalog" tab at the top. Then select "Effective FIRMs /FHBMs". The choices allow you to select a state and county. Then you follow the instructions to create a FIRMette. In addition, from the same web-site, you can obtain a FIRMette for a specific address. From <u>http://www.msc.fema.gov</u> conduct a "Product Search" for "Public Flood Map" and then follow the instructions to create a FIRMette.

Note 1: In circumstances where there is another lead Federal agency with set procedures for addressing Endangered Species, Cultural Resources, and National Wild and Scenic River Coordination, the applicant can submit documentation showing the coordination has already been completed instead of submitting the additional Notification information requested above.

Note 2: Nationwide Permit General Condition 31 requires the applicant to include a delineation of special aquatic sites and all other waters of the U.S. on the project site. Special aquatic sites include sanctuaries and refuges, wetlands, mudflats, vegetated shallows, coral reefs, and riffle and pool complexes.

G. Ohio EPA Section 401 Water Quality Certification General Limitations and Conditions

A. CULVERTS

For intermittent and perennial streams:

- 1. Bottomless or buried culverts are required when culvert size is greater than 36" diameter. This condition does not apply if the culverts will have a gradient of greater than 1% grade or is installed on bedrock. A buried culvert means that the bottom 10% by dimension shall be buried below the existing stream bed elevation.
- 2. The culvert shall be designed and sized to accommodate bankfull discharge and match the existing depth of flow to facilitate the passage of aquatic organisms.
- 3. When practicable, culverts shall be installed at the existing streambed slope, , to allow for the natural movement of bedload and aquatic organisms.
- 4. The conditions in this section apply only to the installation of new culverts regardless of which NWP is used to authorize the activity.

B. BEST MANAGEMENT PRACTICES

- All best management practices for storm water management shall be designed and implemented in accordance with the most current edition of the NPDES construction general permit available at: <u>http://www.epa.ohio.gov/dsw/storm/construction_index.aspx#Construction%20General%</u> 20Permit, or any watershed specific construction general permit.
- 2. All avoided water resources and associated buffers/riparian areas shall be demarcated in the field and protected with suitable materials (e.g., silt fencing, snow fencing, signage, etc.) prior to site disturbance. These materials shall remain in place and be maintained throughout the construction process.
- 3. Disturbance and removal of vegetation from the project construction area is to be avoided where possible and minimized when necessary. Entry to surface waters shall be through a single point of access whenever practicable to minimize disturbance to riparian habitat. Unavoidable temporary impacts to forested riparian habitat shall be restored as soon as practicable after in-water work is complete using tree and shrub species native to the specific ecoregion where the project is located.

- 4. All dredged material placed at an upland site shall be controlled so that sediment runoff to adjacent surface waters is minimized to the maximum extent practicable.
- 5. Straw bales shall not be used as a form of erosion/sediment control unless used in conjunction with another structural control such as silt fencing.
- 6. Heavy equipment shall not be placed below the ordinary high water mark of any surface water, except when no other alternative is practicable.
- 7. Temporary fill shall consist of suitable non-erodible material and shall be stabilized to prevent erosion.
- 8. Cadmium chromium arsenate (CCA) and creosote treated lumber shall not be used in structures that come into contact with waters of the state.

C. MITIGATION

- 1. Compensatory mitigation is required for the discharge of dredged or fill material into wetlands, whether temporary or permanent, exceed one-tenth acre.
- 2. When required, compensatory mitigation shall be provided in accordance with chapters 3745-1 and 3745-32 of the Ohio Administrative Code.
- 3. When compensatory mitigation will be provided wholly or in part at a mitigation bank, credit purchase shall only be authorized at those banks approved by the interagency review team and having an active instrument signed by the director of Ohio EPA.
- 4. Compensatory mitigation projects for stream impacts shall result in the preservation, restoration, or enhancement of stream habitat and/or biological functions.
- 5. Stream restoration activities shall maintain or enhance the habitat values of the stream as determined by an appropriate habitat assessment method and adhere to "natural channel design" principles. Natural channel design means a technique that integrates knowledge of natural stream processes to create a stable stream that maintains its form and function over time and achieves a targeted habitat or biological end point.

D. MISCELLANEOUS

- 1. Nationwide permits cannot be combined to increase any of the special or general limitations and conditions of this certification.
- 2. Authorization under this certification does not relieve the permittee from the responsibility of obtaining any other federal, state or local permits, approvals or authorizations.

- 3. In the event that the issuance of a nationwide permit by the Corps requires individual state water quality certification for an activity that constitutes an emergency as defined in 33 CFR 325.2(e)(4), the limitation and/or condition requiring the individual water quality certification is not applicable and the project may proceed upon approval by the Corps provided all other terms of this certification, including mitigation, have been met.
- 4. In nationwide permits where the district engineer has been granted authority to waive certain requirements, the corresponding general limitations and conditions of this certification as well as specific nationwide permit conditions shall apply unless written authorization from the director of Ohio EPA is obtained to authorize additional impacts.
- 5. For any project that does not meet one or more of the terms and conditions of this certification as they pertain to stream and lake shoreline length limitations, stream designated/existing aquatic life uses and stream antidegradation categories, Ohio EPA may determine, on a case-by-case basis, that a project will have such a minimal impact on water quality that individual state water quality certification is not necessary provided all other terms and conditions of this certification, including mitigation, have been met.

To qualify for consideration, the applicant must provide to Ohio EPA the following information:

- a. a copy of the pre-construction notification submitted to the Army Corps of Engineers including all attachments;
- b. a copy of the provisional nationwide permit issued by the Army Corps of Engineers including all attachments and special conditions, if any;
- c. a detailed description of the proposed mitigation or a copy of the mitigation plan as approved by the Army Corps of Engineers;
- d. a rationale of how the applicant believes the project will minimally impact water quality; and
- e. any other documentation as may be required under this certification.

Pending such a determination, all of the limitations and conditions of this certification shall apply unless written authorization from the director of Ohio EPA, stating otherwise, is obtained.

6. Representatives from Ohio EPA, Division of Surface Water will be allowed to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of this certification. This includes, but is not limited to, access to and copies of any records that must be kept under the conditions of this certification; and, authorization to sample and/or monitor any discharge activity or mitigation site. Ohio EPA will make a reasonable attempt to notify the applicant of its intention to inspect the site in advance of that inspection.

H. Definitions

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

<u>Compensatory mitigation</u>: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

<u>Currently serviceable</u>: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term "discharge" means any discharge of dredged or fill material.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Ephemeral stream: An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

<u>High Tide Line</u>: The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

<u>Historic Property</u>: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps regulatory program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.

Intermittent stream: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Loss of waters of the United States: Waters of the United States that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the United States is a threshold measurement of the impact to jurisdictional waters for determining whether a project may qualify for an NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. The loss of stream bed includes the linear feet of stream bed that is filled or excavated. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the United States. Impacts resulting from activities eligible for exemptions under Section 404(f) of the Clean Water Act are not considered when calculating the loss of the United States.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. The definition of a wetland can be found at 33 CFR 328.3(b). Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the NWPs, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high water mark can be determined. Aquatic vegetation within the area of standing or flowing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. Examples of "open waters" include rivers, streams, lakes, and ponds.

Ordinary High Water Mark: An ordinary high water mark is a line on the shore established by the fluctuations of water and indicated by physical characteristics, or by other appropriate means that consider the characteristics of the surrounding areas (see 33 CFR 328.3(e)).

Perennial stream: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

<u>Practicable</u>: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

<u>**Pre-construction notification**</u>: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

<u>Preservation</u>: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

<u>Re-establishment</u>: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

<u>Rehabilitation</u>: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

<u>Riffle and pool complex</u>: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface,

and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

<u>Riparian areas</u>: Riparian areas are lands adjacent to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 23.)

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term "single and complete project" is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of "independent utility"). Single and complete non-linear projects may not be "piecemealed" to avoid the limits in an NWP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

<u>Stream channelization</u>: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

<u>**Tidal wetland</u></u>: A tidal wetland is a wetland (i.e., water of the United States) that is inundated by tidal waters. The definitions of a wetland and tidal waters can be found at 33 CFR 328.3(b) and 33 CFR 328.3(f), respectively. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line, which is defined at 33 CFR 328.3(d).</u>**

<u>Vegetated shallows</u>: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

<u>Waterbody</u>: For purposes of the NWPs, a waterbody is a jurisdictional water of the United States. If a jurisdictional wetland is adjacent – meaning bordering, contiguous, or neighboring – to a waterbody determined to be a water of the United States under 33 CFR 328.3(a)(1)-(6), that waterbody and its adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)). Examples of "waterbodies" include streams, rivers, lakes, ponds, and wetlands.

20 June 2016

2200 Williams S. Moorehead Federal Building 1000 Liberty Avenue Pittsburgh, PA 15222-2186 Attn: Mike Fodsey

Re: Sand Creek Culvert Replacement Project at the Open Demolition Area #2 (RVAAP-004-R-01) Stream Crossing, Ravenna Army Ammunition Plant (RVAAP) Restoration Program, Camp Ravenna Joint Military Training Center (Camp Ravenna), Portage and Trumbull Counties, Ohio – Supplemental Information for Nationwide Permit Pre-Construction Notification

Dear Mr. Fodsey:

This Nationwide Permit Pre-Construction Notification application and supplemental information is provided to document that the proposed project meets the conditions of the Nationwide Permit (NWP) #3. Camp Ravenna is replacing two existing pipe culverts with a single arched culvert and restoring natural flow of Sand Creek at the Open Demolition Area (ODA) #2 stream crossing as part of the RVAAP restoration program. The project requires the removal of the two existing culverts, installation of the replacement culvert, and restoration of the project area. This letter provides supplemental information to ENG Form 4345 Application for Department of the Army Permit and addresses general conditions not discussed within the application.

General Condition 1 - Navigation

The proposed activities will occur within Sand Creek within Camp Ravenna. Camp Ravenna has restricted access and Sand Creek has minimal navigational opportunity. As such, there will be no impact to the navigation of existing waterways.

General Condition 2 - Aquatic Life Movements

The permanent crossing will be suitably culverted to sustain movement of aquatic species.

General Condition 6 – Suitable Material

Soil removed from the existing culvert area will be used as backfill. Reused material will be verified clean prior to reuse by means of visual inspection, magnetometer survey, and sampling.

General Condition 8 - Adverse Effects from Impoundments

Prior to removal of either culvert, a pump, bypass lines, and sandbags will be installed to maintain continuous flow of the creek and enable placement of the footers (1/2 of the stream channel will be blocked with sandbags to maintain flow). The existing culverts will then be removed and the new three-sided culvert will be installed and water will be able to flow freely along the natural stream bed. Removal of the existing culverts and installation of the new culvert will not adversely affect or impound the stream.

General Condition 9 - Management of Water Flows

The proposed activity in Sand Creek will maintain water flow by including a temporary sump with a pump to route water over or around the construction area. Additionally, sandbags (covering half of the stream channel at a time) will also be installed to divert flow around the portions of the stream that are part of active construction. The pre-construction course, condition, and location of Sand Creek will be maintained. The weather will be monitored and work will not take place when rain and potential storms are in the forecast.

General Condition 10 - Fills Within 100-Year Floodplains

The project at Sand Creek will be occurring in FEMA floodplain area 39133C0180D. Per the 100-Year floodplain map dated August 18, 2009, the activities will take place within a 100-year floodplain. The completed project will not create new obstructions within the floodplain and will not impact flow within the floodplain. See attached floodplain map in Attachment A.

General Condition 11 - Equipment

Preparing the area for excavation, vegetation removal will occur with chain saws, brush hog, wood chipper and excavator. An excavator will be used to remove the rock, soil, and the existing pipe culverts from the work area. Front-end loader/skid steer will place the materials adjacent to the work area or loaded on to trucks for removal. Pumps and sandbags will be used as needed to keep the work area free from water. Upon installation of the culvert foundation, approximately 400 square feet of riprap will be placed in the stream bed under where the arched culvert will be installed. An excavator or crane will be used to set the precast concrete arch culvert in the prepared area of Sand Creek. Following culvert installation, a loader, dozer, skid steer, compactor, hydro seeder are some of the equipment types to be used for backfill and restoration of the area. For any concrete work, concrete truck and concrete finishing equipment will be used. Any re-fueling of the equipment will be done away from the creek. Tarps or similar materials will be placed underneath the equipment and a "catch can" will be used to prevent any fuel or lubricants from reaching the ground. A spill kit will be located onsite in the event of a spill. Camp Ravenna Range Control will be immediately notified if a spill occurs. Please see attached site staging diagram in Attachment C.

General Condition 12 - Soil Erosion and Sediment Control

Soil erosion and sediment controls will be used and maintained in effective operating condition during construction and all exposed soils as well as any work below the ordinary high water mark will be permanently stabilized. Best management practices, including a silt fence downstream of the construction area and rock check dams will be used to control sediment during construction. In addition, work will be scheduled/staged to coincide with periods of low-flow or no-flow.

General Condition 13 - Removal of Temporary Fills

Sandbags used for stream diversion will be removed from the stream channel once culvert replacement activities are complete. The stream bed beneath the culvert will be anchored with approximately 400 square feet of rip rap. The stream bed will be returned to its natural state and disturbed areas will be re-vegetated.

General Condition 17 - Tribal Rights

The proposed activities will not infringe on tribal rights and will not impair tribal rights including reserved water rights and treaty fishing and hunting rights.

In 2006, the OHARNG consulted with 55 federally recognized Tribes regarding the development of an Environmental Assessment for a proposed Engineer School at Camp Ravenna and the associated archaeological survey. The archaeological survey completed in association with the EA encompasses several areas near the project areas. Tribes interested in the results of the archaeological survey did not express an interest in the sites identified during the survey. However, several tribes did request being contacted in the event of an inadvertent discovery during any ground disturbing activities. In addition, the OHARNG regularly consults with 13 federally recognized Tribes regarding archaeological surveys and projects at Camp Ravenna. Draft archaeological surveys completed at Camp Ravenna are sent to these 13 tribes for comment and review. No concerns have been expressed regarding the surveys. The OHARNG has established a good working relationship with tribes that have ancestral ties to OHARNG owned properties. Consultation with tribes has shown that the greatest interest is the inadvertent discovery of human remains or NAGPRA related items and results of archaeological surveys. In the event of an inadvertent discovery of human remains or funerary items, the OHARNG will follow Procedures for Inadvertent Discovery of Cultural Materials at Camp Ravenna Joint Military Training Center. These procedures were taken from Standard Operating Procedure #6 of the OHARNG Integrated Cultural Resources Management Plan and modified specifically for Camp Ravenna.

General Condition 18 - Endangered Species

Camp Ravenna has implemented National Guard procedures for compliance with the Endangered Species Act (ESA) for the project. The US Fish and Wildlife Service (USFWS) is a cooperating agency along with the Ohio Department of Natural resources (ODNR) in the Camp Ravenna Integrated Natural Resources Plan. The agencies have a long standing positive working relationship. Below is a list of the potential and known species on Camp Ravenna and a brief description of ESA compliance.

Federally listed species known to occur in Portage County, Ohio, provided by the US Fish and Wildlife Service (USFWS) Ecological Services Field Offices in Columbus, Ohio, include the endangered Indiana bat (*Myotis sodalis*), the endangered Mitchell's satyr butterfly (*Neonympha mitchellii mitchellii*), the threatened northern monkshood (*Aconitum noveboracense*), the threatened northern long-eared bat (*Myotis septentrionalis*), and the candidate eastern massasauga (*Sistruruscatenatus catenatus*). The bald eagle (*Haliaeetus leucocephalus*), is also listed as a species of concern.

Intensive biological surveys have been conducted at Camp Ravenna that include all the above listed species. The surveys have demonstrated the absence of the Indiana bat, the northern monkshood, Mitchells' satyr butterfly, and the eastern massasauga. There is habitat for the Indiana bat and some limited potential habitat for the eastern massasauga. Even so, these species are not present at Camp Ravenna. Surveys have confirmed the presence of the northern long-eared bat (NLEB).

The OHARNG conducted a Biological Evaluation (BE) of the NLEB at Camp Ravenna in 2015. The BE identified all activities at Camp Ravenna and evaluated their potential impacts on the NLEB and identified management activities and limitations that will be implemented to protect the bat. The USFWS accepted the BE as informal consultation on 12 May 2015. As long as the OHARNG operates within the limitations identified in the BE, project-specific coordination with the USFWS concerning the NLEB is not required. The limitation to fell trees 3 inches in diameter and greater after 30 September and before 1 April is applicable to this project.

Due to lack of species presence, lack of designated critical habitat at Camp Ravenna and because the tree cutting period restriction identified in our BE will be implemented, there will be no effect on any federally listed species by the proposed action. Please note that trees within the project area were felled during the week of 28 March 2016, prior to the 1 April deadline.

ESA compliance has been documented by the Camp Ravenna Environmental Office in a projectspecific Memorandum for Record (MFR), provided in Attachment B.

General Condition 19 - Migratory Bird and Bald and Golden Eagle Permits

The amount of ground and vegetation to be disturbed is very minimal and will be restored to preconstruction conditions. The project will not impact migratory birds. There is a Bald Eagle nest at Camp Ravenna approximately one mile southwest of the proposed activity. The proposed activity will not impact the nest.

General Condition 20 - Historic Properties

The immediate project area has not been surveyed for cultural resources due to the fact that it is located in an area of concern are part of the RVAAP restoration program. Walk overs and digging in this area is a potential hazard, therefore surveys have not been completed. However, several surveys have been completed around the project area over the last several years. Six archaeological surveys were completed between 2004 and 2015 in the area surrounding the project area. There are twenty-three archaeological sites identified during these 6 surveys in the area surrounding the project area. Four of these sites meet the eligibility criteria for listing in the National Register of Historic Places (NRHP) and require further investigation. The remaining nineteen sites do not meet the criteria and no further investigations are necessary. The Ohio Historic Preservation Office concurred with the OHARNG determinations regarding the eligibility of these sites. The four eligible sites are between 1,500 to 3,000 feet from the project area. There is no potential for the proposed project to disturb any of these sites. This information has been documented in a project-specific Memorandum for Record, provided in Attachment B.

Based on Camp Ravenna's review of cultural resources as documented in the MFR, project activities will not impact any known cultural resources.

General Condition 21 - Discovery of Previously Unknown Remains and Artifacts

In the event of an inadvertent discovery of human remains or funerary items, the OHARNG and the contractor will follow *Procedures for Inadvertent Discovery of Cultural Materials at Camp Ravenna Joint Military Training Center*. These procedures were taken from Standard Operating Procedure #6 of the OHARNG Integrated Cultural Resources Management Plan and modified specifically for Camp Ravenna.

Figures



PGH P:\GIS\RAVENNA\MAPDOCS\SAND_CREEK_CULVERT_JAN2016.MXD 01/07/16 JEE

PGH P:\GIS\RAVENNA\MAPDOCS\SAND_CREEK_CULVERT_WETLANDS_USACE.MXD 05/09/16 KM









Attachment A



Attachment B

ADJUTANT GENERAL'S DEPARTMENT CAMP RAVENNA JOINT MILITARTY TRAINING CENTER

1438 State Route 534 SW Newton Falls, OH 44444

NGOH-IMR-ENV

3 February 2016

MEMORANDUM FOR RECORD

SUBJECT: Endangered Species Act (ESA) Section 7 Consultation for the Remedial Action (RA) at the Winklepeck Burning Grounds (WBG) Area of Concern (AOC) and Culvert Replacement and Bank Stabilization at Open Demolition Area #2 (ODA#2) Munition Response Site (MRS) at Camp Ravenna Joint Military Training Center (CRJMTC) as part of the Ravenna Army Ammunition Plant (RVAAP) Restoration Program

- The Army National Guard (ARNG)/Ohio Army National Guard (OHARNG) has contracted Tetra Tech to complete a Remedial Action at the Winklepeck Burning Grounds (WBG) AOC (RVAAP-05) and a culvert replacement and bank stabilization at the Open Demolition Area # 2 (ODA2) MRS (RVAAP-004-R-01) as part of the RVAAP Restoration Program. The AOC and MRS are located on the central portion of CRJMTC within Portage County, Ohio.
- 2. The work at WBG will include excavation of 5,250 cubic yards of soil to remove poly aromatic hydrocarbon (PAH) contamination at Pad 61/61A, 2, 4, 6-trinitrotoluene (TNT) contamination at Pad 38, and TNT and hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), contamination at Pads 66 and 67 in subsurface soil (depths of 2 feet and 10 feet below ground surface) to achieve Industrial use. Work will also include screening of soils for munitions and explosives of concern (MEC).
- 3. The work at ODA2 will include replacement of an existing culvert on the ODA2 access road that runs through the central portion of the MRS and bank stabilization at Rocket Ridge on the eastern portion of the MRS. The culvert replacement project will occur within the central portion of ODA2 where Sand Creek crosses the ODA2 access road. The existing two circular culverts will be replaced with a prefabricated concrete, three-sided arched culvert with wing walls and a 20 foot by 18 foot concrete pad. The existing culvert is being replaced to help with overtopping from flood events and to remove munitions items from the existing backfill that was used to secure the culvert in place. The flow of the stream will neither be interrupted nor relocated during the replacement activities. A Preconstruction Notification (PCN) under Nationwide Permit #3 will be submitted. Existing soil removed from the culvert area will be screened for munitions and used for backfill (if proven clean) or properly disposed. Ground disturbance and a minor amount of vegetation removal will occur within the existing footprint of the culvert. The bank stabilization project will be conducted at Rocket Ridge within ODA2 and will consist of boulder placement within Sand Creek and tree planting (mix of Northern Red Oak and Red Maple) on Rocket Ridge to help with stream bank erosion issues. Minor ground disturbance will occur due to the planting of trees and placement of boulders. No vegetation removal is anticipated as part of the bank stabilization activities. Work will also include screening of soils for munitions and explosives of concern (MEC).
- This culvert removal and replacement project involves removing up to six small diameter trees and shrubby vegetation in order for the contractor to access the project sites. Because this

NGOH-IMR-ENV

SUBJECT: Endangered Species Act (ESA) Section 7 Consultation for the Remedial Action at WBG and Culvert Replacement and Bank Stabilization at ODA#2 at the Camp Ravenna Joint Military Training Center

project involves potential impacts to the habitat of the Endangered Indiana bat (*Myotis sodalis*) and the federally threatened Northern Long-Eared Bat (*Myotis septentrionalis*), this MFR addresses measures taken to complete this proposed action in accordance with US Fish and Wildlife Service (USFWS) protocols for bat (*Myotis* sp.) management. For this reason, necessary tree cutting will only take place between 1 OCT and 31 MAR.

- 5. Approximately six small diameter pole-size trees measuring 3 10 inches DBH will need to be removed by the contractor in order to remove and replace Sand Creek culvert. The species of trees to be removed include, three green ash (*Faxinus pennsylvanica*), one American elm (*Ulmus americana*), one black cherry (*Prunus serotina*), and one black willow (*Salix nigra*). Tree felling for this project is expected to take place in March 2016 and take no more than one day to complete.
- 6. The following listed species provided by the US Fish and Wildlife Service Ecological Services Field Office in Columbus, Ohio, are known to occur in Portage County, Ohio. The presence of general habitat within the project area and federally designated critical habitat within the project area and federally designated critical habitat at CRJMTC has also been included.

Common Name	Scientific Name	Federal Status	Habitat within Project Area	Critical Habitat at Camp Ravenna	Determination
Indiana Bat	Myotis sodalis	E	Yes	No	No Effect
Mitchell's Satyr Butterfly	Neonympha mitchelllii mitchellii	E	No	No	No Effect
Northern Monkshood	Aconitum noveboracense	Т	No	No	No Effect
Northern Long-Eared Bat	Myotis septentrionalis	T	Yes	No	May Affect, Not Likely to Adversely Affect
Eastern Massasauga	Sistrurus catenatus catenatus	PT	No	No	No Effect

E = Endangered

T = Threatened

PT = Proposed Threatened

 Intensive biological surveys have been conducted at CRJMTC for all of the above listed species. In accordance with the CRJMTC Integrated Natural Resources Management Plan (INRMP), bat surveys are conducted on five-year cycles in coordination with the USFWS. To date, five base-wide bat surveys have been conducted at CRJMTC (Tawse, 1999; Davey Resource Group, 2002; Duffey & Brack, 2005; and Johnson, 2010). The current survey which

NGOH-IMR-ENV

SUBJECT: Endangered Species Act (ESA) Section 7 Consultation for the Remedial Action at WBG and Culvert Replacement and Bank Stabilization at ODA#2 at the Camp Ravenna Joint Military Training Center

is still ongoing was begun in July 2015 by EnviroScience, Inc. Habitat suitable for the Threatened Northern Long-eared Bat (NLEB) does exist at CRJMTC as does habitat for the Endangered Indiana bat which to date, has <u>not</u> been found on site. During the 2010 bat survey, before White-Nose Syndrome had been found in Ohio, a total of 29 NLEBs were captured in mist nets. In early August 2015, a single post-lactating adult female NLEB was captured in a mist net and radio tracked back to a roost tree where it spent the night. The 2015-2016 base-wide bat survey is scheduled to resume in early June 2016.

- 8. Despite the OHARNG's best effort to verify all bat species present at CRJMTC, a list that now contains six species but does not include the Federally Endangered Indiana bat, it was agreed to by the USFWS at the INRMP Review for Operation & Effect meeting on 19 December 2012 that since the Indiana bat does <u>not</u> occur at CRJMTC, no activities at CRJMTC can impact a species that is not present.
- 9. A young, healthy butternut (*Juglans cinerea*) was found growing on the south side of Sand Creek and on the west side of ODA#2 Rd. This tree measures approximately four inches in diameter, is free of butternut-canker, and is growing next to a larger red maple (*Acer rubrum*). Butternut is listed as a Federal Species of Concern by the USFWS. A species of this informal designation has no legal status or protection under the ESA but rather is considered a watchlist species which is why a concerted effort should be made to avoid harming such species. This tree was marked with pink flagging on 1 FEB 2016 so the contractor will know which particular tree to avoid impacting above and below ground.
- 10. Based on the above review, the verbal acceptance given to the OHARNG by the USFWS on 19 December 2012 at the Camp Ravenna INRMP review for O&E, the absence of federally designated critical habitat at CRJMTC, and the fact that tree cutting will take place between 1 October 31 March in accordance with the Camp Ravenna NLEB Informal Conference agreed to by the USFWS on 12 MAY 2015, the OHARNG has determined that implementation of this action "may affect, not likely to adversely affect" the NLEB with no additional coordination necessary with the USFWS because seasonal cutting restrictions outlined in said BE are being followed. For all other federally listed species under the ESA present in Portage County, the OHARNG has concluded "no effect" will occur as a result of this action.
- The POC for this action is Mr. Brian Riley, Natural Resources Program Manager, at 614-336-4564 or by email at <u>brian.p.riley17.nfg@mail.mil</u>.

Brian P. Riley Natural Resources Manager OHARNG

CC: CRJMTC file Ms. Kathryn Tait

Attachment



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services 4625 Morse Road, Suite 104 Columbus, Ohio 43230 (614) 416-8993 / FAX (614) 416-8994

Federally Listed Species by Ohio Counties October 2015

COUNTY	SPECIES
ADAMS	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), fanshell (E), rayed bean (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), timber rattlesnake (SC), bald eagle (SC)
ALLEN	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
ASHLAND	Indiana bat (E), northern long-eared bat (T), eastern hellbender (SC), bald eagle (SC)
ASHTABULA	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E), clubshell (E), snuffbox (E), rufa red knot (T), eastern massasauga (PT), bald eagle (SC)
ATHENS	Indiana bat (E), northern long-eared bat (T), American burying beetle (E), fanshell (E), sheepnose (E) pink mucket pearly mussel (E), snuffbox (E), timber rattlesnake (SC), bald eagle (SC)
AUGLAIZE	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
BELMONT	Indiana bat (E), northern long-eared bat (T), eastern hellbender (SC), bald eagle (SC)
BROWN	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), fanshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E), bald eagle (SC)
BUTLER	Indiana bat (E), northern long-eared bat (T), rayed bean (E), bald eagle (SC)
CARROLL	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
CHAMPAIGN	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)
CLARK	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern prairie fringed orchid (T), eastern massasauga (PT), bald eagle (SC)
CLERMONT	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), fanshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E), bald eagle (SC)
CLINTON	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)
COLUMBIANA	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), eastern hellbender (SC), bald eagle (SC)
COSHOCTON	Indiana bat (E), northern long-eared bat (T), clubshell (E), fanshell (E), rayed bean (E), purple cat's paw pearly mussel (E), sheepnose (E), snuffbox (E), rabbitsfoot (T/CH), eastern hellbender (SC), bald eagle (SC)
CRAWFORD	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)

CUYAHOGA	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E), rufa red knot (T bald eagle (SC)	
DARKE	Indiana bat (E), northern long-eared bat (T), rayed bean (E), bald eagle (SC)	
DEFIANCE	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), white cat's paw pearly mussel (E), rayed bean (E), copperbelly water snake (T), bald eagle (SC)	
DELAWARE	Indiana bat (E), northern long-eared bat (T), rayed bean (E), snuffbox (E), bald eagle (SC)	
ERIE	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E/CH), Lakeside daisy (T), rufa red knot (T), eastern massasauga (PT), Lake Erie watersnake (SC), bald eagle (SC)	
FAIRFIELD	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)	
FAYETTE	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)	
FRANKLIN	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T), bald eagle (SC)	
FULTON	Indiana bat (E), northern long-eared bat (T), rayed bean (E), bald eagle (SC)	
GALLIA	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), timber rattlesnake (SC), bald eagle (SC)	
GEAUGA	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)	
GREENE	Indiana bat (E), northern long-eared bat (T), clubshell (E), rayed bean (E), snuffbox (E), eastern massasauga (PT), bald eagle (SC)	
GUERNSEY	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)	
HAMILTON	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), fanshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E), bald eagle (SC)	
HANCOCK	Indiana bat (E), northern long-eared bat (T), clubshell (E), rayed bean (E), bald eagle (SC)	
HARDIN	Indiana bat (E), northern long-eared bat (T), clubshell (E), rayed bean (E), copperbelly water snake (T), eastern massasauga (PT), bald eagle (SC)	
HARRISON	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)	
HENRY	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)	
HIGHLAND	Indiana bat (E), northern long-eared bat (T), timber rattlesnake (SC), bald eagle (SC)	
HOCKING	Indiana bat (E), northern long-eared bat (T), American burying beetle (E), running buffalo clover (E), northern monkshood (T), small whorled pogonia (T), timber rattlesnake (SC), bald eagle (SC)	
HOLMES	Indiana bat (E), northern long-eared bat (T), eastern prairie fringed orchid (T), eastern hellbender (SC), bald eagle (SC)	
HURON	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)	
JACKSON	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), timber rattlesnake (SC), bald eagle (SC)	

JEFFERSON	Indiana bat (E), northern long-eared bat (T), eastern hellbender (SC), bald eagle (SC)
KNOX	Indiana bat (E), northern long-eared bat (T), eastern hellbender (SC), bald eagle (SC)
LAKE	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E/CH), snuffbox (E) rufa red knot (T), bald eagle (SC)
LAWRENCE	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), fanshell (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), timber rattlesnake (SC), bald eagle (SC)
LICKING	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)
LOGAN	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (PT), bald eagle (SC)
LORAIN	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E), rufa red knot (T), bald eagle (SC)
LUCAS	Indiana bat (E), northern long-eared bat (T), Karner blue butterfly (E), Kirtland's warbler (E), piping plover (E), rayed bean (E), eastern prairie fringed orchid (T), rufa red knot (T), eastern massasauga (PT), bald eagle (SC)
MADISON	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T/CH), bald eagle (SC)
MAHONING	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)
MARION	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (PT), bald eagle (SC)
MEDINA	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
MEIGS	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), bald eagle (SC)
MERCER	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
MIAMI	Indiana bat (E), northern long-eared bat (T), rayed bean (E), snuffbox (E), bald eagle (SC)
MONROE	Indiana bat (E), northern long-eared bat (T), eastern hellbender (SC), bald eagle (SC)
MONTGOMERY	Indiana bat (E), northern long-eared bat (T), rayed bean (E), snuffbox (E), eastern massasauga (PT), bald eagle (SC)
MORGAN	Indiana bat (E), northern long-eared bat (T), American burying beetle (E), fanshell (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), bald eagle (SC)
MORROW	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
MUSKINGUM	Indiana bat (E), northern long-eared bat (T), fanshell (E), sheepnose (E), snuffbox (E), rabbitsfoot (T), eastern hellbender (SC), bald eagle (SC)
NOBLE	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
OTTAWA	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E), eastern prairie fringed orchid (T), Lakeside daisy (T), rufa red knot (T), eastern massasauga (PT), Lake Erie watersnake (SC), bald eagle (SC)
PAULDING	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)

PERRY	Indiana bat (E), northern long-eared bat (T), American burying beetle (E), bald eagle (SC)
PICKAWAY	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T), bald eagle (SC)
PIKE	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), rayed bean (E), timber rattlesnake (SC), bald eagle (SC)
PORTAGE	Indiana bat (E), northern long-eared bat (T), Mitchell's satyr (E), northern monkshood (T), eastern massasauga (PT), bald eagle (SC)
PREBLE	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), bald eagle (SC)
PUTNAM	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
RICHLAND	Indiana bat (E), northern long-eared bat (T), eastern massasauga (PT), eastern hellbender (SC), bald eagle (SC)
ROSS	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), eastern hellbender (SC), timber rattlesnake (SC), bald eagle (SC)
SANDUSKY	Indiana bat (E), northern long-eared bat (T), Kirtland's warbler (E), piping plover (E), eastern prairie fringed orchid (T), rufa red knot (T), eastern massasauga (PT), bald eagle (SC)
SCIOTO	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), clubshell (E), fanshell (E), northern riffleshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E), small whorled pogonia (T), Virginia spiraea (T), eastern hellbender (SC), timber rattlesnake (SC), bald eagle (SC)
SENECA	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
SHELBY	Indiana bat (E), northern long-eared bat (T), rayed bean (E), bald eagle (SC)
STARK	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
SUMMIT	Indiana bat (E), northern long-eared bat (T), northern monkshood (T), bald eagle (SC)
TRUMBULL	Indiana bat (E), northern long-eared bat (T), clubshell (E), eastern massasauga (PT), bald eagle (SC), eastern hellbender (SC)
TUSCARAWAS	Indiana bat (E), northern long-eared bat (T), eastern hellbender (SC), bald eagle (SC)
UNION	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T/CH), bald eagle (SC)
VAN WERT	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
VINTON	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), American burying beetle (E), eastern hellbender (SC), timber rattlesnake (SC), bald eagle (SC)
WARREN	Indiana bat (E), northern long-eared bat (T), running buffalo clover (E), rayed bean (E), eastern massasauga (PT), bald eagle (SC)

WASHINGTON	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), eastern hellbender (SC), timber rattlesnake (SC), bald eagle (SC)
WAYNE	Indiana bat (E), northern long-eared bat (T), eastern prairie fringed orchid (T), eastern massasauga (PT), bald eagle (SC)
WILLIAMS	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), rayed bean (E), white cat's paw pearly mussel (E), rabbitsfoot (T/CH), copperbelly water snake (T), bald eagle (SC)
WOOD	Indiana bat (E), northern long-eared bat (T), bald eagle (SC)
WYANDOT	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (PT), bald eagle (SC)

IMPORTANT NOTE: This list reflects data available as of October 2015, and will change as new data become available. For this reason, searches for listed species should not necessarily be limited to the counties noted above. Any decisions in that regard should be made only after calling the USFWS (614/416-8993) for guidance.

E = Endangered	SC = Species of Concern
T = Threatened	CH = Critical Habitat
C = Candidate	P = Proposed (T/E/CH)

STATE OF OHIO ADJUTANT GENERAL'S DEPARTMENT 2825 West Dublin Granville Road Columbus, Ohio 43235-2789

NGOH-IMR-ENV

11 September 2015

MEMORANDUM FOR RECORD

SUBJECT: National Historic Preservation Act Compliance for the Remedial Action (RA) at the Winklepeck Burning Grounds Area of Concern (AOC) and Culvert Removal and Replacement and Bank Stabilization at Open Demolition Area #2 Munition Response Site (MRS) at Camp Ravenna Joint Military Training Center (CRJMTC) as part of the Ravenna Army Ammunition Plant (RVAAP) Restoration Program

1. The Army National Guard (ARNG)/Ohio Army National Guard (OHARNG) has contracted Tetra Tech to complete a Remedial Action at the Winklepeck Burning Grounds (WBG) AOC (RVAAP-05) and a culvert removal and replacement and bank stabilization at the Open Demolition Area # 2 (ODA2) MRS (RVAAP-004-R-01) as part of the RVAAP Restoration Program. The AOC and MRS are located on the central portion of CRJMTC within Portage County, Ohio. The work at WBG will include excavation of 5,250 cubic yards of soil to remove poly aromatic hydrocarbon (PAH) contamination at Pad 61/61A, 2, 4, 6-trinitrotoluene (TNT) contamination at Pad 38, and TNT and hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), contamination at Pads 66 and 67 in subsurface soil (depths of 2 feet and 10 feet below ground surface) to achieve Industrial use. The work at ODA2 will include removal and replacement of an existing culvert on the ODA2 access road that runs through the central portion of the MRS and bank stabilization at Rocket Ridge on the eastern portion of the MRS. Work at both sites will also include screening of soils for munitions and explosives of concern (MEC).

2. The immediate project areas covered in this MFR have not been surveyed for cultural resources due to the fact that these are areas of concern are part of the RVAAP restoration program. Walk overs and digging in these areas is a potential hazard, therefore surveys have not been completed in these areas. However, several surveys have been completed around the project areas over the last several years. Six archaeological surveys were completed between 2004 and 2015 in the areas surrounding the project areas. There are twenty-three archaeological sites identified during these 6 surveys in the areas surrounding the project areas. Four of these sites meet the eligibility criteria for listing in the National Register of Historic Places (NRHP) and require further investigation. The remaining nineteen sites do not meet the criteria and no further investigations are necessary. The Ohio Historic Preservation Office concurred with the OHARNG determinations regarding the eligibility of these sites. The four eligible sites are between 1,500 to 3,000 feet from the project areas. There is no potential for the proposed projects to disturb any of these sites.

3. In 2006, the OHARNG consulted with 55 federally recognized Tribes regarding the development of an Environmental Assessment for a proposed Engineer School at CRJMTC and the associated archaeological survey. The archaeological survey completed in association with the EA encompasses several areas near the project areas. Tribes interested in the results of the archaeological survey did not express an interest in the sites identified during the survey.

However, several tribes did request being contacted in the event of an inadvertent discovery during any ground disturbing activities. In addition, the OHARNG regularly consults with 13 federally recognized Tribes regarding archaeological surveys and projects at CRJMTC. Draft archaeological surveys completed at CRJMTC are sent to these 13 tribes for comment and review. No concerns have been expressed regarding the surveys. The OHARNG has established a good working relationship with tribes that have ancestral ties to OHARNG owned properties. Consultation with tribes has shown that the greatest interest is the inadvertent discovery of human remains or NAGPRA related items and results of archaeological surveys. In the event of an inadvertent discovery of human remains or funerary items, the OHARNG will follow *Procedures for Inadvertent Discovery of Cultural Materials at Camp Ravenna Joint Military Training Center*. These procedures were taken from Standard Operating Procedure #6 of the OHARNG Integrated Cultural Resources Management Plan and modified specifically for CRJMTC.

4. There are no known historic properties present within the Area of Potential Effects; therefore the OHARNG makes the determination that no historic properties will be affected by the Winklepeck Remedial Action and culvert removal and replacement and bank stabilization at ODA2. Copies of pertinent correspondence with the OHPO and Tribes are available upon request from the OHARNG Cultural Resources Manager. Any questions or concerns regarding Cultural Resources for CRJMTC should be directed to the undersigned at (614) 336-6569 or via e-mail at kimberly.s.ludt.nfg@mail.mil.

KIMBERLY S. LUDT OHARNG Cultural Resources Manager Attachment C

