

The Environmental Section

Who We Are and What We Do

Who We are

Ben Hark is our Environmental Section Head

Sondra Mullins is our NEPA Status Group Leader

Natural Resources Section has 4 Biologists

Traci Cummings, Sydney Burke, Nathan Mullins and Ashley Akers

Historic Resources Section has 4 Historians

Randy Epperly, Tracy Bakic, Ahleah Boise, and Tyler Wilson

Archaeological Resources Section has 5 Archaeologists

Rod Demott, Tim Currey, Jen Babb, Rachel Crawford, and Matt O'Brien

Engineering Support Section has 2 Engineers and 2 Biologists

Lovell Facemire, Don Bailey, Tracie Moles and Hillary Mower

National Environmental Policy Act NEPA

❖ The National Environmental Policy Act (NEPA) was one of the first laws ever written that establishes the broad national framework for protecting our environment.

❖ NEPA's basic policy is to assure that <u>ALL</u> branches of <u>GOVERNMENT</u> give proper consideration to the environment prior to undertaking any major federal action that significantly affects the environment.

A few acts that fall under the NEPA umbrella...

Section 7 Endangered Species Act

Section 404 Clean Water Act

Section 106 Cultural Resources

Executive order 12898- Environmental Justice

Section 4(f) Parks, recreation areas, refuges, historic properties **Section 6(f)** use of land and water conservation funds

Essential elements of NEPA

- Purpose and Need
- Alternatives
- **❖**Impacts
- Mitigation
- Public Involvement
- Interagency Coordination
- Documentation

NEPA DOCUMENT TYPES

On average how long does it take to clear each type?

Programmatic Categorical Exclusion - Type 1

PCE Type 1 (1-2 days)

Programmatic Categorical Exclusion - Type 2

PCE Type 2 (3-4 months)

NEED FHWA APPROVAL

Categorical Exclusion

CE (6-9 months)

Environmental Assessment/Finding of No Significant Impact

EA (12-18 months)

***** Environmental Impact Statement/Record of Decision

EIS (2-5 years)

Transportation Project Development Process

Planning

System considerations, coordination, conformity, project need

NEPA

Need, alternatives and impact analysis, public / agency coordination, documentation (CE, EA/FONSI, EIS/ROD)

NEPA Approval: Location, design concept acceptance

Final Design

Right-of-Way

Construction

MAINTENANCE AND OPERATION

Post NEPA
Project Development
Activities

Section 7 of Endangered Species Act of 1973

Provides a program for the conservation of plants and animals and the habitats in which they are found.

The law also prohibits any action that causes "taking" of any listed species.

Threatened and endangered species

In West Virginia there are 17 species of animals and 4 species of plants that are considered endangered.

❖There are <u>5 species of animals</u> and <u>2 species of plants</u> that are considered threatened.

Species Survey Schedule Timeline

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								small whorled pogonia: May 1 - Sep 30												
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Section 106 of the National Historic Preservation Act

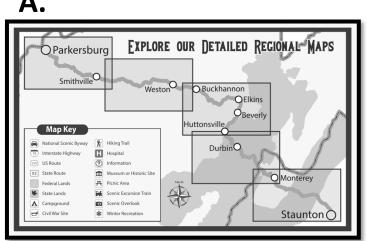
- Section 106 requires federal agencies to consider the effects of projects they carry out, approve, or fund on historic properties.
- ❖ Section 106 of the National Historic Preservation Act is crucial to the transportation program. It requires consideration of historic resources on all projects within the state.
- ❖ Section 106 gives the Advisory Council on Historic Preservation, interested parties, and the public the opportunity to comment on projects with historic issues, prior to the agency's decision on them.

Section 106 Review

- To complete Section 106 Review the following must occur:
 - Gather information to decide which properties in the project area have historic significance (listed, or are eligible for listing, in the National Register of Historic Places (referred to as "historic properties"));
 - Determine how those historic properties might be impacted by the project (review plans);
 - Explore measures (alignment change) to avoid or reduce harm (adverse effect) to historic properties; and
 - Reach agreement with the SHPO/THPO (and the ACHP in some cases) on such measures to resolve any adverse effects. A Memorandum of Agreement is prepared and signed between the SHPO, WVDOH & FHWA.

National Register Criteria for Evaluation

- A -That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B -That are associated with the lives of persons significant in our past; or
- C -That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- **D** -That have yielded or may be likely to yield, information important in prehistory or history.









Historic Resources Section

The Historic Resources Section is responsible for evaluating a project area for potential historic resources.

To be historic, a building must:

- Be at least 50 years old;
- Fit one of the criteria for the National Register of Historic Places (does *not* have to actually be formally listed);
- have integrity (original materials, etc.).

Section 4(F) within the U.S. Department of Transportation Act of 1966

- ❖ Section 4 (f) refers to the original section within the U.S. Department of Transportation Act of 1966 which provided for consideration of park and recreation lands, wildlife and waterfowl refuges, and historic sites during transportation project development.
- ❖ Section 4 (f) only applies to projects that have federal funding.

Section 6(F) of the Land and Water Conservation Fund Act

❖ Section 6(f) of this Act provides matching funds to states or municipalities for planning, improvements, or acquisition of outdoor recreational lands. Any property that was planned, purchased, or improved with LWCF money is considered a 6(f) property. Typically, Section 6(f) properties are recreational lands that are also regulated under Section 4(f) of the Department of Transportation Act.

What we look for: 7 Aspects of Integrity

- Design
- Materials
- Workmanship
- Location
- Setting
- Feeling
- Association

*Evaluation of integrity is very subjective

ARCHAEOLOGICAL RESOURCES

 Our Archaeology Section studies past human cultures through the artifacts (material goods) and features (locations of previous activity) that are left behind.

What does the archaeologist do?

- Using the project design information an Area of Potential Effect (APE) must be determined.
 - Some locations or portions may be eliminated from further consideration due to the nature and extent of known previous disturbances, or landforms that make encountering archaeological resources unlikely
- Conduct background research
 - All reasonably discoverable sources of information regarding the history and prehistory around the project location should be consulted.
 - Property entry permissions should be requested from the appropriate district's Right of Way agent as soon as possible.
 - The records of the WV SHPO must be consulted before fieldwork can be planned.
- Make a field visit
 - This should happen as soon as the limits of disturbance (LOD) or environmental clearance zone (ECZ) are known.
 - During the field visit photo documentation of the general area will be completed.
 - This documentation can used for justifying why further testing is unwarranted. If testing will be required, then the affected parcels will be noted.
 - Shovel tests will be completed throughout the LOD were suitable areas are found and they will be documented for reporting to SHPO or use on the review exempt forms.
- Reporting/ Documenting
 - Reports are prepared to be sent to SHPO if required, if not the review exempt forms are completed for project clearance.

Mitigation



Some projects require us to do different types of mitigation to make up for the impacts we've had to the natural, historic or archaeological resources.



Mitigation can be giving money to organizations or groups for restoration projects.



Providing money for research.



Monitoring the resources that were moved during the construction.



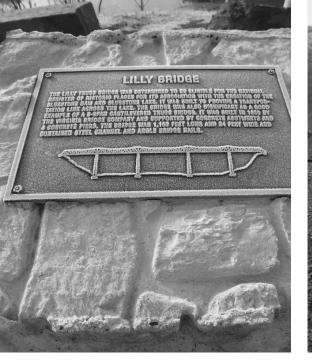
Habitat improvements, etc.

Mitigation required from Tribal Consultation was the aesthetic details on the parapets.

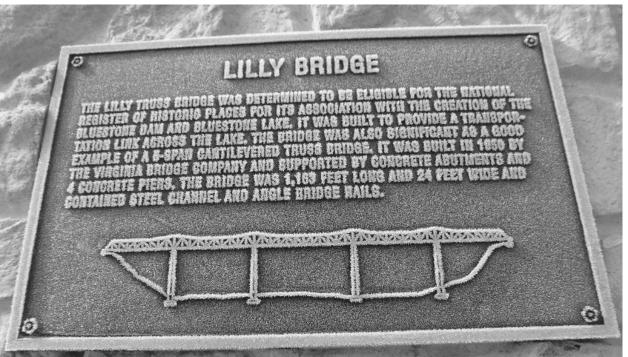


Pollinator Mitigation

- Changing the WVDOT sponsored Wildflower Plots into Pollinator Areas.
- Using a specialized seed mix for roadsides that have native WV flowers.
- Sydney Burke has designed the signs that will designate these WVDOH Pollinator Areas.
- •Also going to have small pollinator plots and signage at our rest areas.
- Mitigation for threatened and endangered pollinator species throughout the state.

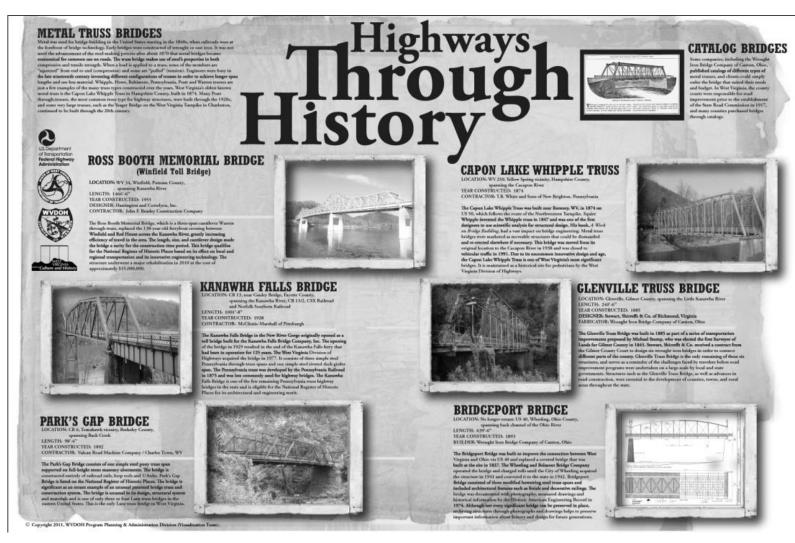






Lilly Bridge Mitigation

Combining mitigation funds and resources for multiple projects means better quality and greater benefit to the public.



- Eligibility known up front for planning purposes.
- Additional review may be necessary, but framework is in place.
- Input from many different experts and others make the plan feasible.
- Some bridges are actually preserved.
- Others can be replaced with less controversy.

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Together Everyone Achieves More

Any questions???
Feel free to contact the Environmental Section. ©

1. Is the Purpose and need an essential element of NEPA? True or False?

• Answer- True

- 2. What are the Five types of NEPA Documents?
- A.) PCE1, EA, EIS, FONSI, and CE
- B.) CE, ESA, EA, EIS, L&D
- C.) PCE1, PCE 2, CE, EA, EIS
- D.) None of the above

Answer- C

3. Can you start construction before you have an approved NEPA document? YES or No?

Answer- NO

4. How many Endangered Animal Species are in West Virginia?

A.)7

B.)17

C.)4

D.)38

Answer- B

- 5. What national register criteria does Little Jimmy Dickens fall under?
- A.) Criteria B
- B.) Criteria D
- C.) Criteria A
- D.) Criteria C
- Answer- A

- 6. Which one is **not** one of the 7 aspects of integrity?
- A.) Feeling
- B.) Age
- C.) Association
- D.) Location

Answer- B

Question 7. Is Archaeology the study of dinosaurs? True or False?

Answer- FALSE