NEPA:

What is it?
How does it impact my project?

COUNTY ENGINEERS WORKSHOP FEBRUARY 2018

Speakers

Margaret Barondess

MDOT Environmental Section Manager

Tracie Leix, PE

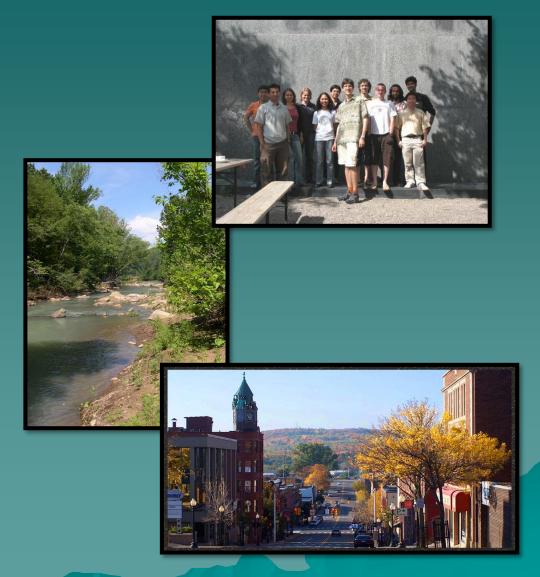
MDOT Local Agency Program Engineer

Matt Ihnken, CWB

• USFWS Transportation Liaison

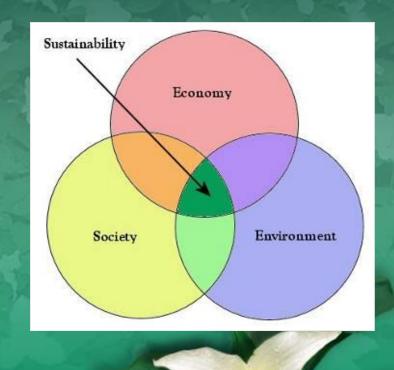
What is NEPA?

- National Environmental Policy Act of 1969.
- All projects receiving federal dollars (or approval) must be reviewed for environmental impacts.
 - Social
 - Environmental
 - Economic



Understanding the 1969 National Environmental Policy Act (NEPA)

- Disclose Information
- Foster Coordination and Cooperation
- Engage the Public
- Analyze Alternatives
- Better Decisions



The NEPA Umbrella

NEPA

- Public Involvement
- Coast Guard Permits
- Farmland Protection
- Aquifer Protection
- Threatened and Endangered Species
- Coastal Zone Consistency

- Air Quality Conformity
- Historic Preservation
- Title VI and EJ
- Section 4(f)
- Noise Abatement
- Sustainable Development
- Community Impact Assessment

Balanced Decisions



Seeking Input

NEPA Classification

Significant Impact

No





Categorical Exclusion (CE)

Environmental Assessment (EA)



Environmental Impact Statement

No

Finding of No Significant Impact (FONSI)

Record of Decision (ROD)

Current LAP Process for NEPA

ENVIRONMENTAL CERTIFICATION:

All items designated as "Within Project Limits," shall be shown on the construction plans to prevent incidental impacts during construction. Appropriate agency project clearance documents and reviews are required for the following items and must be kept in the local agency's project file. These files are subject to monitoring and review by MDOT and the Federal Highway Administration. The following is a list of agencies that must be notified by the local agency. The local agency is responsible for notifying other agencies that may also have jurisdiction.

MI. Dept. of Natural Resources (MDNR) (http://www.michigan.gov/dnr)

State and/or Federal National, Wild & Scenic River
State and/or Federal Endangered Species or Habitat, Michigan Natura
Features Inventory

P.A. 116 Agricultural Land

Section 6(f) Properties, (acquired or developed with assistance of t Land And Water Conservation Act. Notify the U.S. Department of Interior - U.S. Forest Service, and maintain a file copy).

MI. Dept. of Environmental Quality (MDEQ) (http://www.michigan.gov/d

100 Year Base Flood Plain

Michigan Coastal Zone

	Within Project Limits No Yes If Within Project Limits No Impact Impact			
	We hereby certify this document to be true and accurate for fulfilling federal, state and local laws, regulations and requirements and that this document has not been modified in any way from its original form.			
	REPARED BY (Signature of Professional Engineer) DATE AFFIX PREPARER'S LICENSED PROFESSI SEAL		ONAL ENGINEER'S	
	PREPARER'S TYPED NAME AND TITLE	PREPARER REGISTRATION NUMBER	EXPIRATION DATE	
	ACCEPTED BY LOCAL AGENCY (Signature of Authorized Person Employed by the Eligible Applicant Agency)		DATE	
TYPED NAME AND TITLE				
	I concur with the environmental classification, as determined by the MDOT LOCAL AGENCY PROGRAMS PROJECT DEVELOPMENT ENGI	DATE		

2017 CAP Findings

- ▶ 23 CFR Part 771.117(d) states:
 - "...actions which meet the criteria for a CE...may be designated as CEs only after Administration <u>approval</u>."
- ► FHWA
 - Documenting that Environmental
 Classification remains valid throughout NEPA
 - ► Documenting QA throughout NEPA



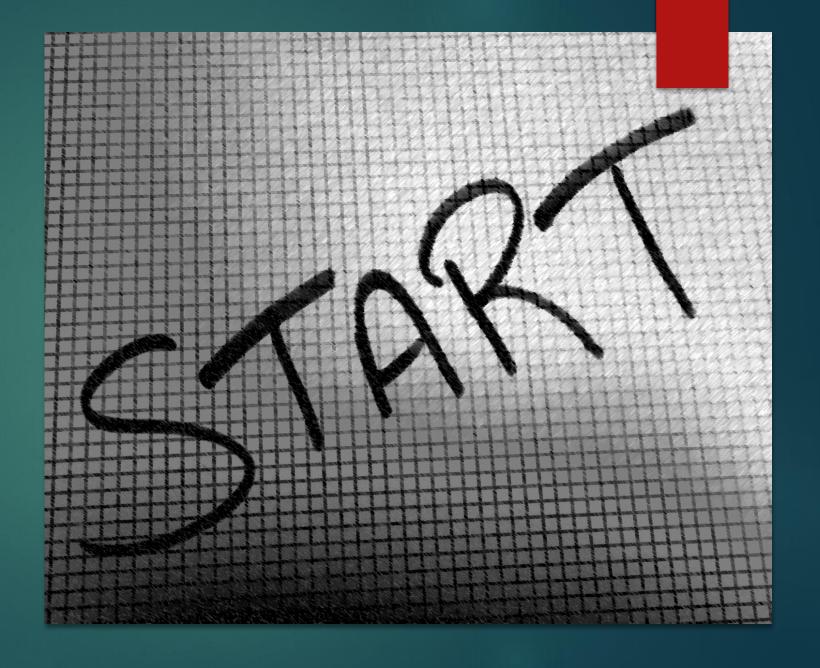
Proposed LAP Process for NEPA

Move from Concur to <u>Approve</u> in order to meet Federal Regulations

What does this mean?

- Local Agencies are already required to determine NEPA classification
- Local Agencies are already required to maintain documentation in their project files

Local Agencies will be required to submit documentation to MDOT for approval of CE How do we get there from here?



NEPA Team

- ► FHWA
 - Mark Lewis
 - Patrick Marchman
 - Kurt Zachary
- MDOT Local Agency Program
 - ▶ Tracie Leix
 - ▶ Lynnette Firman
 - Mark Harrison
- MDOT Environmental
 - ► Margaret Barondess
 - Ann Lawrie
 - ▶ Eric Costa

- CRA (NEPA Subcommittee)
 - Steve Puuri (and MML)
 - Karl Hanson
 - Craig Atwood
- ► MML
 - ▶ John LaMacchia
 - Patrick Lewis city of Monroe
 - ▶ Willard Redman city of Hastings

Accomplishments

Establish New FTE within MDOT Environmental Section

Finalized
Threatened &
Endangered
Species Review
Process

Draft Updated
Section 106 (SHPO)
Exemptions &
Application Tips

Section 106 - SHPO

- Exempted project types
- ▶ SHPO letters responding to project reviews
 - ▶ MiSHPO
- Tip sheet
 - ▶ Detailed project descriptions

Documentation Requirements

Scenic Rivers T&E Species

Wetlands

4(f)/6(f) Properties PA 116 Properties

Noise

Air Quality

Water Quality

Other

Training Needs and Schedule

- ► Introduction Training
 - ► MDOT/ACEC Workshop, CEW, MTPA Conference
- Local Technical Assistance Program (LTAP)
 Webinars
 - ▶ Threatened & Endangered Species January 2018
 - ▶ SHPO Requirements Spring 2018
 - ▶ NEPA Basics Fall 2018
- Comprehensive Training Spring 2019

Information Technology and Data Needs

- ▶ SPR Funding Grant
 - ▶ Presence/Absence for Select Elements
- Program Application
 - ▶ Paper Form
 - ▶ Software Application

Process Implementation

- ▶ Pilot Projects
- Anticipated for FY20 (October 2019)
 - ► All Projects
- ▶ Construction Impacts
 - ▶ Change Management in the Field

Schedule Recap

- ▶ Identify Documentation Requirements Now
- ▶ Training
 - ▶ Intro Now
 - Comprehensive Spring/Summer 2019
- ▶ IT/Data Needs Long Term
- ▶ Pilot Projects Fall 2018/Spring 2019
- ▶ Implementation October 2019

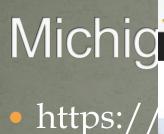




Project Review for T/E Species

Matt Ihnken
USFWS Michigan Ecological Services Field Office
East Lansing, Michigan

Screening Projects for the Eastern Massasauga Rattlesnake





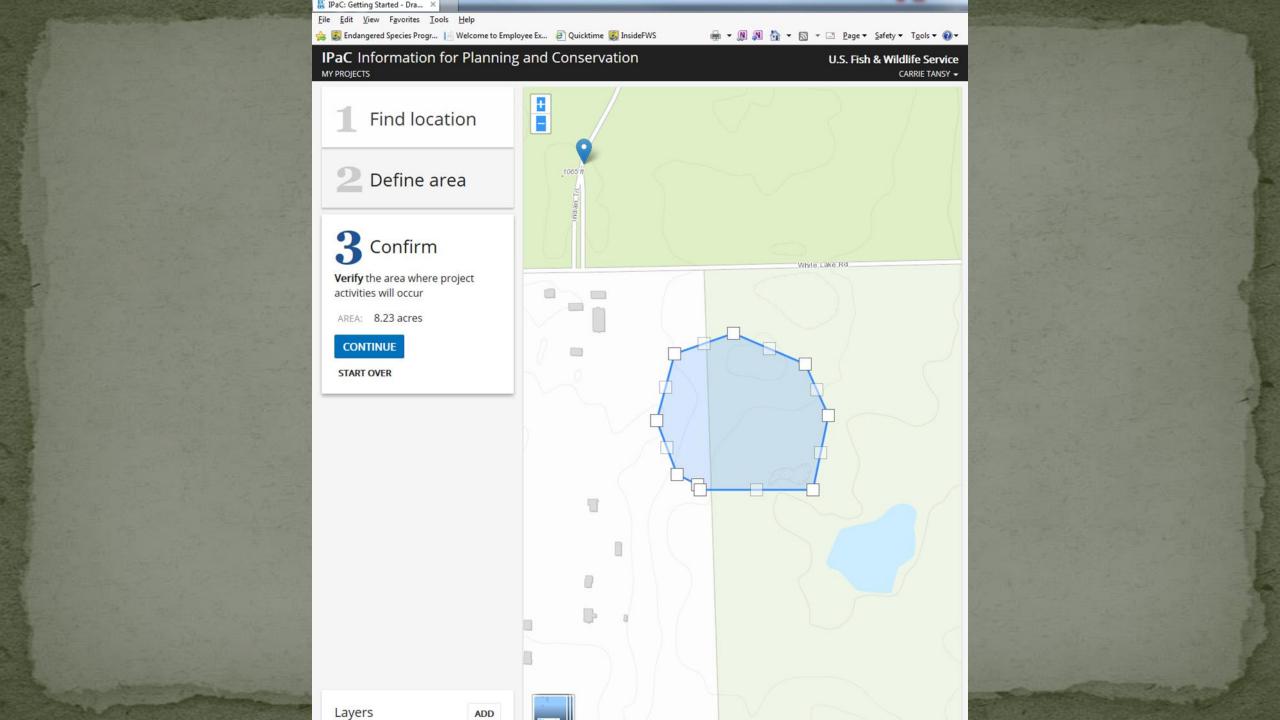
IPaC is a project planning tool which streamlines the USFWS environmental review process

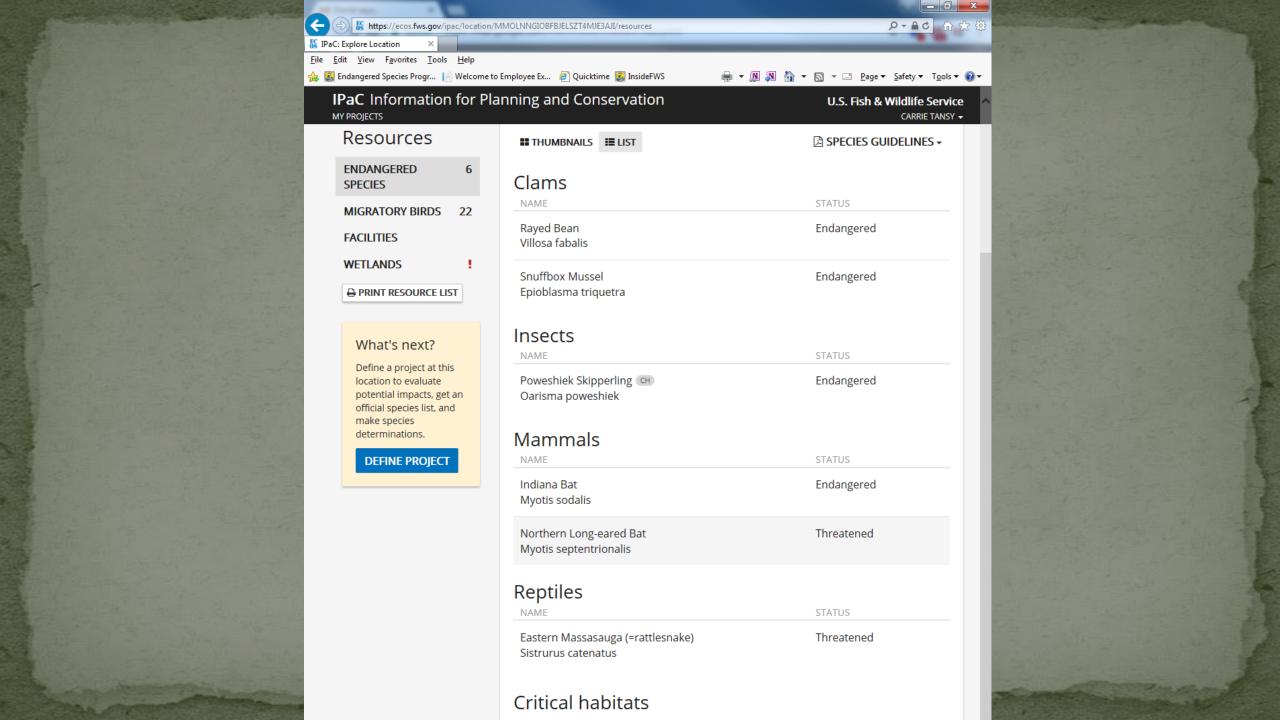


Need an updated species list?

Integrate the environmental review process into your project design

Quickly and easily identify USFWS managed resources and suggested conservation measures for your project.





IPaC Information for Planning and Conservation U.S. Fish & Wildlife Service MY PROJECTS CARRIE TANSY ▼ Eastern Massasauga (=rattlesnake) Explore X Jackson County, Sistrurus catenatus LOCAL OFFICE ELANS CHANGE LOCATION This species only needs to be considered if any of the following Resources conditions apply: · All Projects: Tier 2 EMR Habitat Present **ENDANGERED** · All Projects: Within EMR Range **SPECIES** n of the U.S. Fish Threatened; A species likely to become endangered STATUS **MIGRATORY BIRDS** within the foreseeable future throughout all or a ation: significant portion of its range. **FACILITIES** Massasaugas are small snakes with thick bodies, DESCRIPTION WETLANDS TIES GUIDELINES heart-shaped heads and vertical pupils. The average length of an adult is about 2 feet. Adult massasaugas A PRINT RESOURCE I are gray or light brown with large, light-edged **ONLY FOR** chocolate brown blotches on the back and smaller **MICHIGAN** blotches on the sides. The snake's belly is marbled What's next? dark gray or black and there is a narrow, white stripe ered on its head. Its tail has several dark brown rings and Define a project at the is tipped by gray-yellow horny rattles. Young snakes location to evaluate have the same markings, but are more vividly potential impacts, ge gered colored. The head is a triangular shape and the official species list, a make species pupils are vertical. determinations. No critical habitat has been designated for this CRITICAL HABITAT **DEFINE PROJEC** species. General project design guidelines SPECIES GUIDELINES gered For more information, visit the ECOS species profile 2 Northern Long-eared Bat Threatened

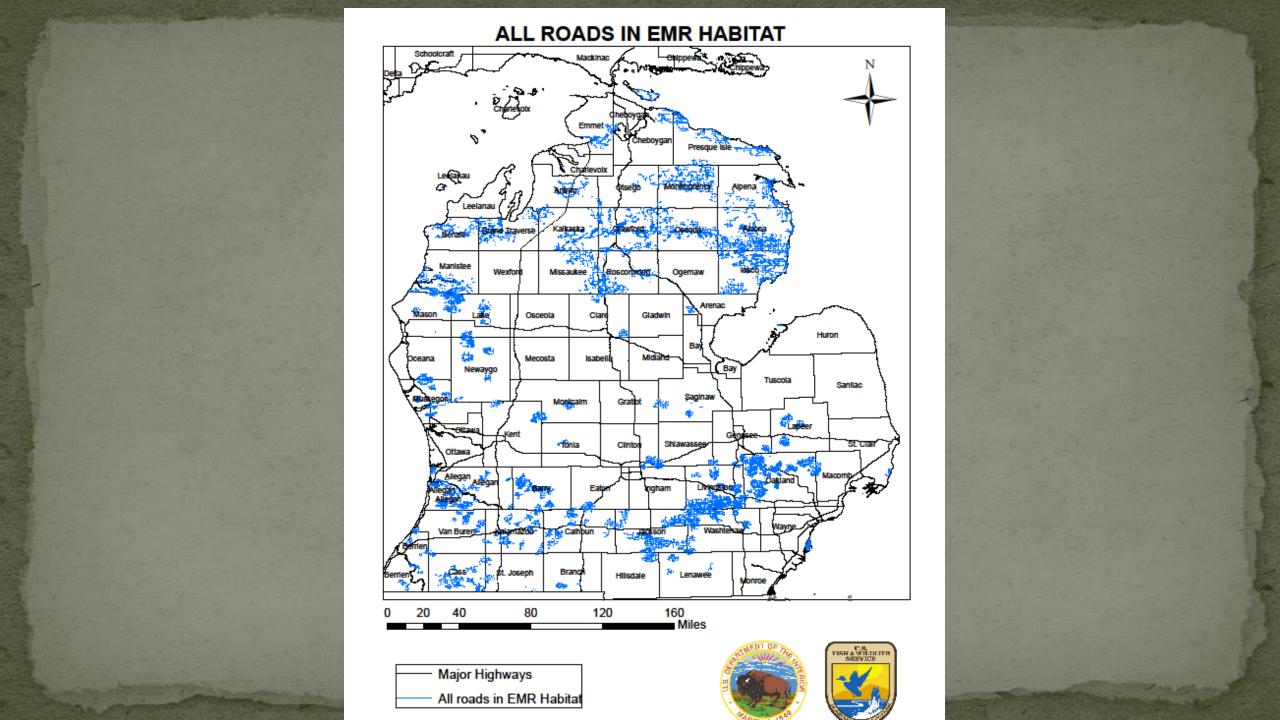
Michigan – Tier 1 and Tier 2 habitat

Tier 1 Habitat – known occupied

<u>Tier 2</u> – high potential for EMR

Outside of these areas – EMR may be present where suitable habitat exists





Potential for conflicts with ROW management

- Management activities are needed to maintain safe roadways for the motoring public
- Some management
 activities could result
 in harm or mortality



Photo by Dick Dickinson

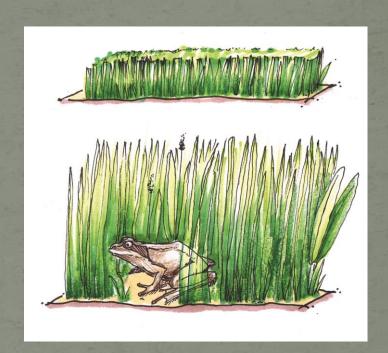
Best Management Practices

- Timing and Best Management Practices can avoid or minimize adverse impacts
- If you can avoid harming EMR (most often with timing restrictions), you don't need an ESA permit
- If you can't avoid take:
 - Can apply for an Incidental Take Permit
 - If your project has a Federal component, the Federal agency completes section 7 consultation
 - Requires advanced planning



Mowing grasses

- Best to mow when snakes are hibernating
 - Mowing is unconstrained in the inactive season
- During the active season, snakes may be killed or injured by mower blades or crushed by tires
- Turf grass (areas maintained as lawn around buildings) or areas where trying to discourage EMR (trails) can be maintained as short grass, <4-5 inches, that EMR is unlikely to use.



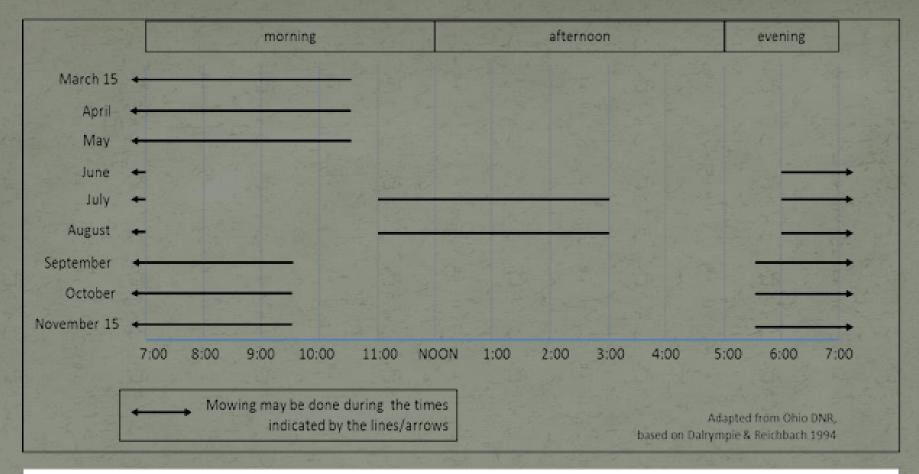


Figure 1. EMR Active season mowing schedule (NiSource Biological Opinion, page 273, USFWS 2015)

Mechanical treatments - shrubs and trees

- Brush-hogging, hydro-axing, vehicles/other equipment should occur during the inactive season when the ground is frozen (such that soils can be left undisturbed)
- Use low impact harvest methods in occupied wetlands, including track mounted skid steers to cut and remove individual trees
- If ground isn't completely frozen, or if working near potential hibernacula, use hand tools
- Do not burn brush during the active season

Water level manipulation

- EMR hibernates in areas where the water table is near the surface but still have access to air to breathe
- Water levels should not be artificially lowered during the inactive season
 - Snakes need access to water within their hibernacula to avoid desiccation and freezing
- Flooding is also a threat
- Where applicable, water levels should be allowed to flow naturally and not artificially stabilized to allow for restoration of early successional habitats

Herbicides

- Follow all label instructions
- Avoid spray drift beyond the target species/area (optimal wind speed and direction, boom height, droplet size calibration, precipitation forecast, etc.)
- Avoid broadcast spraying of herbicides in occupied habitat; use spot spraying, painting cut stumps, wicking, other targeted methods

Erosion Control

- In Michigan, use wildlife-safe materials for all projects where EMR may occur
- Avoid products containing plastic mesh
 - Net-less blankets, jute or other natural fibers, loose mulch, etc.



EMR killed by an erosion control blanket's plastic mesh netting

Screening Process for Bats

Indiana Bat Section 7

- "May Affect"
 - Any impact to known or potential habitat
 - "May affect, not likely to adversely affect" (informal consultation):
 - Removal of suitable habitat when bats are not present in summer habitat (October 1- March 31)
 - "May affect, likely to adversely affect" (formal consultation):
 - Disturbance of hibernacula
 - Removal of known roost trees
 - Removal of potential roost trees when bats are potentially present (April 1- Sept 30)
 - Removal/fragmentation of a significant portion of available foraging/roosting habitat at any time of year

Indiana Bat Range in Michigan



Screening Process for Mussels





Michigan Freshwater Mussel Survey Protocols and Relocation Procedures



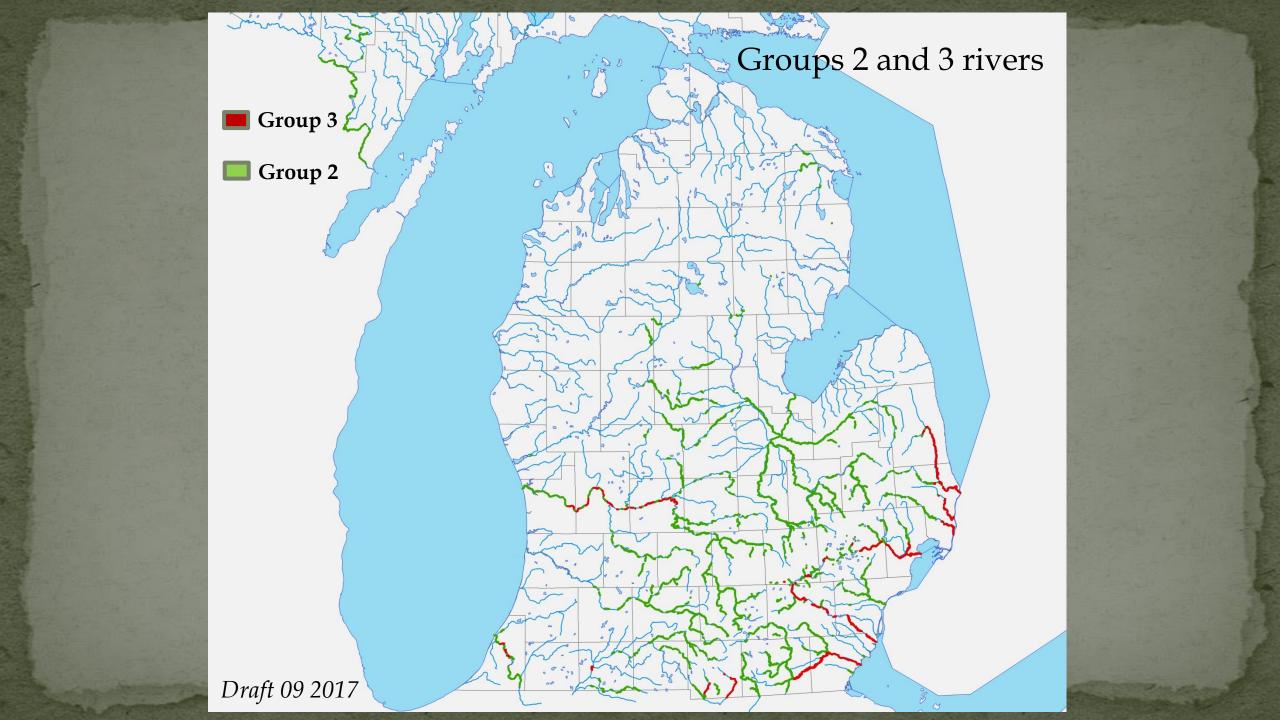


Purpose and Development

- Purpose
 - Provide guidance and standardized survey and relocation protocols to minimize impacts to state and federally listed mussel
- Development
 - Adapted from West Virginia and Ohio Protocols
 - Working group representatives from
 - MDOT
 - DEQ
 - USFWS
 - DNR
 - MNFI
 - Reviewed by practitioners and MI Mussel Working Group
- Protocol document will be updated annually

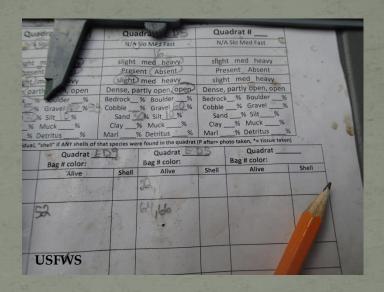






Project Planning

- Survey and Relocation Season
 - Survey season = June 1-October15
 - Water temp = above 50 deg
 - Air temp = 50-90 deg
 - Relocation season = June 1-September 15
- Site Specific Authorization
- Authorization of Relocation under ESA





Survey Plans and Prior Notification

- <u>Must</u> provide survey plans to MDNR (all rivers/streams) and/or FWS (Group 3 only) for review <u>in advance</u> of surveys
 - Notification of MDNR and/or FWS at least
 15 days prior to the actual survey date
 - MDNR review of final survey results
 - Site specific authorization
- Purpose of prior notification
 - Allow time for agency review
 - Appropriate protocol is applied for a stream type and construction activity



Permit Requirements

- State of Michigan Permits
 - Cultural and Scientific
 Collectors Permit issued by the MDNR Fisheries
 Division
 - All native mussels are protected in Michigan
 - Group 2, 3
 - Threatened and Endangered Species Permit, MDNR Endangered Species Program
 - Group 2



Permit Requirements continued

- Federal Permits issued by USFWS
 - Section 10(a)(1)(A) permits for scientific purposes or to enhance the propagation or survival of a species
 - Includes permits to conduct surveys (e.g., mussel surveys)
 - Group 3
 - Authorization from USFWS required for relocation of federally listed species





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Questions?