CONTAMINATION & BRIDGE PAINTING

Stan Reinke
517-335-4384
ReinkeS1@Michigan.gov

WHY REQUIRED

- To meet the intent of the National Environmental Policy Act (NEPA)
- Avoidance, minimization or mitigation of an adverse impact
- Natural Resources and Environmental Protection Act (NREPA)
- Prevent exacerbation of existing contamination
- Exercise "due care" to protect human health and safety
**NREPA - NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT**

- Part 111: Hazardous Waste
- Part 115: Solid Waste Management
- Part 201: Environmental remediation
- Part 213: Leaking Underground storage tanks (LUST)

**ENVIRONMENTAL REVIEW**

- Desktop GIS review
- Project Area Contamination Survey
  - PACS or Phase I
- Preliminary Site Investigation
  - PSI or Phase II
DESKTOP REVIEW

- All projects sent for NEPA review are reviewed for contamination
- Environmental Contamination Specialist conducted
- ArcGIS utilized to identify sites within or close to project limits
- Individual maps placed into ProjectWise and linked to ECO
- For design staff to help determine likelihood of encountering contamination within project limits and help with determining cost estimates
PACS

Conducted by Region Resource Specialist
Provides specific data to be used in design and mitigation
Assists in estimating contamination soil quantities (usually provides an amount)
Determines whether further investigation/testing is warranted
Once conducted PACS report is sent to Contamination Specialist for mitigation to be put into NEPA document, Project Manager and its places into PW for design reference.

PSI

- Conducted when its know that contaminated material will be found.
- Involves the collection and chemical analysis of soil and groundwater samples
- Identifies specific chemicals
- Addresses potential worker safety concerns
- Provides contamination soil quantities and volumes of contaminated groundwater which will require treatment and disposal
- Can be conducted in house with as needed contract through Steve Adams for smaller projects
- Or will be part of contract for project.
BRIDGE PAINTING

- GIS desktop review for bridges impacted by lead based paint
- Requirements for structural coatings come from MDOT Standard Specifications for Construction
- Past fines and consent orders between MDOT and MDEQ and MDNR

REQUIREMENTS

- Requirements 715.03.A-C of the 2012 Standard Specifications for Construction specifically deal with coating cleaning and coating of existing structural steel and include:
  - Total Enclosures
  - Protect blasting of vehicles, water vessels and pedestrians
  - Prevent release of spent materials
  - Maintain negative pressure
  - Use dust collectors
Hazardous waste contingency plan
Labeling of spent material containers
Weekly inspection log
On site records
Storage requirements
Disposal
Containment requirements
Bridges over waterways
Cleanup and storage of spent materials

MITIGATION

An estimated quantity (i.e., pay item) for the appropriate handling and disposal of non-hazardous contaminated media can be included in the project plans.

Special provision 12SP-205A-02 outline Non-Hazardous Contaminated Material Handling and Disposal