

**Construction Quality
Partnership Training
for
Soil Erosion
and
Sedimentation Control**

(Strategic)

Soil Erosion and Sedimentation Control (SESC) Topics

- Why is SESC Important?
- Michigan Department of Transportation (MDOT) Authorized Public Agency Status
- MDOT Soil Erosion and Sedimentation Control Manual
- SESC During Construction
- SESC Inspections
- SESC Documentation
- Special Provision for Noncompliance with SESC
- SESC Earth Change Plan (ECP)

Why is SESC Important?

- It is required by law
 - Public Act (PA) 451 of 1994, Natural Resources and Environmental Protection Act (NREPA)
 - Part 91 SESC – Soil Erosion and Sedimentation Control
 - Part 31 NPDES – Water Resources Protection
- Under PA 451
 - Civil Penalties – fines up to \$25,000 per day
 - Criminal Penalties - \$1M fine and five years in prison
- MDOT management commitment to MDEQ
- Loss of APA status

MDOT is an Authorized Public Agency (APA)

- **Conditions of APA Status**
 - Individual Soil Erosion and Sedimentation Control (SESC) permits not required for each project
 - Michigan Department of Environmental Quality (MDEQ) approved procedures (SESC Manual) required
 - County Enforcing Agency (CEA) and Municipal Enforcing Agency notification (MEA) of each proposed earth change is required
 - Notify CEA and MEA with a copy of preconstruction meeting minutes
 - MDEQ inspections and audits

MDOT Soil Erosion and Sedimentation Control Manual

- Outlines the requirements for compliance with laws governing SESC
- Developed to aid in the selection and application of soil erosion control measures during project development and construction
- Satisfies DEQ requirement of an APA under Part 91, Public Act 451 of 1994, NREPA
- Is a contract document
- Contains details and pay items for various SESC measures

SESC During Construction

- Review MDEQ permits in the proposal
- It is essential to prevent sediment from entering the “waters of the state”
- Waters of the state include:
 - Wetlands
 - Lakes
 - Streams
 - County Drains
- Install temporary controls prior to earth disturbance
- Install controls in the field as detailed on the plan sheets

SESC During Construction (continued)

- Add, modify, or remove controls as field conditions dictate
 - Use miscellaneous quantities as directed by the engineer
- Maintain controls daily.
 - Be proactive, not reactive!
- Inspect and document as required
- Permanent controls (slope restoration) installed
 - Within 5 calendar days of final grade
 - Within 24 hours if within 150 feet of lake, stream or wetland

SESC Inspections

- All sites which disturb 1 acre or more or are within 500 feet of a lake or stream
- Performed once every 7 days and within 24 hours of a precipitation event
- Continue until site is stabilized and erosion potential is gone

SESC Documentation and Corrective Actions

- Inspections and corrective actions are documented on MDOT Form 1126
- Emergencies
 - Sedimentation of wetlands, water bodies or drainage structures
 - Loss of support of a roadway impacting public safety
 - Require corrective action within 24 hours
- Non Emergencies
 - Require corrective action within 5 calendar days
- Maintain inspection records for at least three years

Special Provision for Noncompliance with SESC

- Noncompliance with SESC requirements can result in negative adjustments to the contract
- Penalties imposed based on level of non-compliance
 - Non Emergencies
 - After 5 calendar days \$500.00 per day
 - Emergencies
 - After 24 hours \$100.00 per hour

SESC Earth Change Plan (ECP)

- Required per part 91 (PA 451) for earth change activities outside but within MDOT right of way
 - Limits of earth disturbance are defined as 10 feet beyond the slope stake line
- ECP is submitted by the Contractor to the Engineer for approval
- Sample ECP and minimum requirements are detailed in the SESC manual
- Typical locations which may require an ECP:
 - Concrete plants
 - Staging areas
 - Equipment and material storage areas

Resources

- MDOT Soil Erosion and Sediment Control Manual
 - http://michigan.gov/documents/2006_SESC_Manual_165226_7.pdf
- MDOT Construction Site Soil Erosion & Pollution Prevention Pocket Guide
- MDEQ SESC Training Manual
 - <http://www.deq.state.mi.us/documents/deq-land-sesc-trainingmanual.pdf>
- MDOT Construction Quality Partnership Technical Training for Soil Erosion and Sedimentation Control
 - http://www.michigan.gov/mdot/0,1607,7-151-9622_11044_11367-207241--,00.html

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