Welcome to the State Highway Administration’s Erosion and Sediment Control Program (Yellow Card). In this training, you will learn the many aspects of Erosion and Sediment Control along with Environmental Protection and the Administration’s Environmental Stewardship commitment. This section will outline reasons for this certification training and introduce the regulations that set the outline for how this program is to function. As stated on the introduction page of the training, you may move forward to the next slide of the presentation by clicking anywhere on the presentation. This is self-paced learning, so please take the time to listen to the narrative and also read the information on the screen to gain a full understanding of the content.

Notes
Slide notes

The foundation of this program is based on the laws and state regulations related to sediment pollution and waters of the state.

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Sec. 650.203 Policy
It is the policy of the Federal Highway Administration (FHWA) that all highways funded in whole or in part under title 23, United States Code, shall be located, designed, constructed and operated according to standards that will minimize erosion and sediment damage to the highway and adjacent properties and abate pollution of surface and ground water resources. Guidance for the development of standards used to minimize erosion and sediment damage is referenced in Sec. 650.211 of this part.

Notes
The Federal Highway Administration also requires that highways be constructed and maintained in an environmentally sensitive manner throughout the country.
The National Pollutant Discharge Elimination System (NPDES) was developed as part of the Clean Water Act. This permit system is designed to regulate the discharge of pollutants from point sources to waters of the United States. Section 402 of the CWA specifically required EPA to develop and implement the NPDES program.

Slide notes
The National Pollutant Discharge Elimination System was developed as part of the Clean Water Act. This permit system is designed to regulate the discharge of pollutants from point sources to waters of the United States.
Environmental Stewardship can take many forms beyond abatement of sediment pollution from a construction project. Containment and disposal of fluids and materials and protection of natural habitats and waterways are also a part of the overall goal of helping to protect our environment.
The Quality Assurance program was created through an M.O.U between SHA and the Maryland Department of the Environment (MDE) to provide environmental oversight of construction and maintenance projects. The Quality Assurance program conducts routine project reviews and completes an independent, objective evaluation of the compliance status of that project related to environmental concerns.

The information is tracked in multiple ways through an extensive online database.

Notes
Slide 7 - Objective: Erosion and Sediment Control Compliance

Quality Assurance (QA) Program

Objective: Erosion and Sediment Control Compliance

Performance Measures
1. Number of Quality Assurance (QA) inspections performed (BP)
2. Percentage of compliance on erosion/sediment control ratings (BP)
3. Number of non-compliance findings (D or F ratings) (BP&SS)

Slide notes

The goal of this program is to help SHA achieve compliance with Maryland Department of Environment’s erosion and sediment control permit requirements on all SHA construction projects and maintenance activities on a quarterly basis. The information is entered into the Administration’s business plan and Maryland StateStat. The Business Plan and StateStat are tracking and reporting systems designed to help improve the efficiency and effectiveness of state government. This information is reviewed at the highest levels of the state government.

Notes
Slide 8 - Implementing Contract Incentives to Encourage Proactive E&S Control

Implementing Contract Incentives to Encourage Proactive E&S Control

- Incentives/ Liquidated damages may apply to projects based on a set criteria i.e., scope of work, E&S and grading items, etc.
- Allow incentive / liquidated damages to be prorated throughout the project duration
- Base the incentive / liquidated damages on an objective parameter such as the QA inspection checklist
- Pay an incentive based on the contract size & the number of E&S items included in the project

Slide notes

The goal of this program is to help SHA achieve compliance with Maryland Department of Environment’s erosion and sediment control permit requirements on all SHA construction projects and maintenance activities on a quarterly basis. The information is entered into the Administration’s business plan and Maryland StateStat. The Business Plan and StateStat are tracking and reporting systems designed to help improve the efficiency and effectiveness of state government. This information is reviewed at the highest levels of the state government.
The Yellow Card training has been conducted for nearly a decade and has trained individuals from local governments to the federal level. State employees, consultants and private contractors have attended the classes, which are conducted on a regular basis. As you will see in the training, this certification is required for certain individuals on an Administration project.

Enhancements to the training are continuing as the regulations related to the environment continue to change.

The Administration is committed to a policy of environmental stewardship and the goal of the training you are about to see is to help you gain an understanding of what you can do to help everyone continue to succeed in that challenge.

Notes
Slide notes

The QA program continues to move forward with an emphasis on outreach and training, part of this effort includes the development of reference materials and guides to help individuals in the field to better understand what is necessary to comply with the many specifications and regulations related to environmental protection.

We will now consider environmental erosion and sediment control reference use. With changing regulations it remains important to stay updated with current reference material. The following reference materials will be mentioned throughout the training modules.

Notes
Slide 11 - 2008 Specifications

The standard specifications are the baseline that a contract is built upon. It is important to understand the hierarchy of contract documents. The governing order of the contract documents from highest to lowest is: Special Provisions included within the IFB / Invitation for Bid (The Contract), Plans, Special Provision Inserts, Standard Specifications.

The General Provisions will govern over all contract documents unless expressly provided for in the contract.

Notes
These sections contain environmental information that needs to be reviewed and understood in order to achieve full environmental compliance on a project.
**Slide 13 - Onsite Documents**

There are multiple guides that are required to be on a project site for reference.

If there are discrepancies among the various contract documents, remember the hierarchy of those contract documents as discussed earlier. If there are details for E&S controls included in the plans, they govern.

As stated in the 2008 specifications, when there is a difference between the MDE specifications and the SHA E&S Field Guide, the field guide is the reference document to be utilized. The intent of the field guide is to provide the most up to date changes related to E&S controls.

**Notes**
E&S General Notes are found in the project documents and may vary from project to project. These notes apply to all projects and may be superseded by the contract documents. They provide general information such as the area disturbed on the project, MDE Notification requirements, stabilization, etc.

For projects that do not have plans, the general notes may appear in the IFB. An example of information provided by the General Notes is note 12. This note shows the amount of disturbance in acres. If the amount of disturbance shown here is greater than 1 acre then an NPDES permit is necessary for the project.
Slide notes
This document addresses various environmental issues, requirements, contacts, and reference materials. Within this document, are the answers to many questions that may arise in the field. If it cannot answer your question, it can direct you to the person or group that can help.
Slide notes

This is a reference for Environmental Monitors. This guide helps all stakeholders understand the role of the Environmental Monitor.

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The MDE spec book applies to projects as indicated in the general notes of the plans. It includes design guidance, installation details for controls and also the maintenance requirements of those controls.
Slide 18 - MD Waterway Construction Guidelines

These reference materials are available in multiple ways including, the SHA Intranet, the QA Toolkit and on the Resource CD available from your Regional Environmental Coordinator.

Notes
Slide notes

These reference materials are available in multiple ways including, the S.H.A intranet, the Q.A toolkit and on the Resource C.D. available from your Regional Environmental Coordinator.

Notes
Slide notes
This concludes the Environmental Stewardship and reference section of the training. Please continue with the next module of the training by selecting it from the menu on the left side of your screen.