INDOT Construction Storm Water Management Training

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Indiana Department of Transportation

2020

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Have you completed these required tasks?

- ✓Turned on your audio or called-in to the meeting?
- ✓Turned on your camera (video)?
- ✓Muted yourself?
- ✓Signed-In via the chat window? (Include District & Company)
- ✓Located your writing utensils and/or notepads and/or Powerpoint materials?
- ✓Located your refreshments?
- ✓Waved hello at someone :D

2

On the next slide we invite you to take a moment and analyze this image. We are going to identify four critical take-aways and establish why we are all here today…

3

Why Are We Here?

4

Proper Storm Water Management saves time & money!

First, let's break down the governing branches & laws…

5

Clean Water Act and the Government

- INDOT receives federal funding
- EPA governs the Clean Water Act

- INDOT must follow federal laws and regulations or we lose the funding
- FHA and IDEM hold all jurisdiction out on our sites

- INDOT supports local projects
- INDOT oversees distribution of federal funding on a local level

6

The Federal Law governs that we must follow the Clean Water Act.

7

Clean Water Act

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INDOT oversees the distribution of federal funding to the Local Public Agency (LPA).

9

Federal Law and LPA projects

For LPA projects:

- The LPA is responsible for all applicable permits.
- INDOT is responsible for oversight of permits and construction activity to ensure all laws and regulations are followed.
- Failure on the part of the LPA to attain proper permits or follow the laws and regulations can result in loss of federal funding.

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Multiple permits are issued at the state level. The first set of permits involves the U.S. Waterways and abiding by the law (Clean Water Act).

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Permits: 401/404 + Others

- 404: Federal Permit (Clean Water Act)
  - Jurisdiction of Army Corps of Engineers
  - Dredge and Fill of Waters of the U.S., Wetlands
- 401: State Permit (Clean Water Act)
  - Jurisdiction of IDEM (State of Indiana)
  - Wetlands
  - Dredge and Fill
- Construction in a Floodway Permit
  - Jurisdiction of IDNR (State of Indiana)
  - Rivers or Streams
  - Floodways Clear of Obstructions

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Permits: 401/404

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Indiana Law: Rule 5

Indiana Department of Environmental Management (IDEM)

The state regulatory agency that enforces the **Clean Water Act**. This law was created to reduce or minimize pollutants. For the construction industry sediment is a major pollutant that is a result of soil erosion associated with land-disturbing activities.

Rule 5 (327 IAC 15-5)

Part of the Clean Water Act

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Rule 5 is designed to prevent the potential for off-site pollution.

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Indiana Law: Rule 5

Rule 5

Preventing the Potential for Off-Site Pollution

What does "off-site" mean?

- Off right-of-way
- Jurisdictional waterways
- Construction limits

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Indiana Law: Rule 5

- IDEM is authorized by the EPA to administer Rule 5
- Construction activities 1+ acre
- To Protect:
  - ✓ Public health
  - ✓ Existing water uses
  - ✓ Aquatic biota

INDOT Must Follow the Law

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Permit and Contract Responsibility

Contractor acts as the "Safety"

Photo: Kirby Lee, USA TODAY

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Parts of the Rule 5

- ✓ Notice of Intent (NOI)
- ✓ Storm Water Pollution Prevention Plan (SWPPP)
- ✓ Contract Construction Plans
- ✓ Notice of Sufficiency (NOS)
- ✓ Storm Water Quality Control Plan (SWQCP)
- ✓ Notice of Termination (NOT)

NextLevel INDIANA

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In the state of Indiana, specifically, any construction site destined to disturb one acre of land or more requires a Rule 5 permit. The project site owner must notify IDEM with the intent of the construction. Therefore, launching the obtaining process for a Notice of Intent (NOI).

NextLevel INDIANA

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NOI

Notice of Intent

- Notice of planned work submitted to IDEM
- Necessary for all projects meeting the requirements of Rule 5
- Submitted a minimum of 48 hours prior to land-disturbing activities

RULE 5 - NOTICE OF INTENT (NOI)
Office of Water Quality
Office of Pollution Prevention and Pollution Control Management
Office of Water Quality
Approved by State Board of Accounts, 2005

Cover of Storage Drawer Appropriate Road
(Cover of Storage Drawer)(Attn: ... Lot Drawer)
Parking Garage

Note: The initial rainfall/runoff does not require a permit system; the Department will not require a permit for the initial rainfall/runoff. Contractors should not be applying for renewal, or correspondence related to this permit.

Note: Submission of this Notice of Intent letter constitutes notice that the project site owner is applying for coverage under the National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit for Storm Water Discharges Associated with Construction Activity. Permitted project site owners are required to comply with all terms and conditions of the General Permit rule 327 IAC 15-5 and plan to:

1. Project Name and Location

Project Name: I-465/ I-65 Interchange Modification & Added Travel Lanes
County: Marion
Brief Description of Project Location:
Project consists of widening I-465 from 2nd road of Carson Avenue and ends just west of Emerson Avenue along I-465 with total project length of 2.45 miles. The Construction Engineer (road name) of Southport Rd. (intersection and ending point name) of Nation Avenue along I-65 with total construction length of 2.75 miles. All in Marion County.

Project Location: Describe location in cardinal and longitude (Angular) Minutes and Seconds of Decimal representing gps by legal description (Section, Township and Range, Civil Township)
Latitude: N 39 Deg. 43 Min. 54 Sec
Longitude: W 86 Deg. 06 Min. 29 Sec.
Quarter: Section: 32,33,3,4 Township: T14N, T13N Range: 4E Civil Township: Perry
Qtr=1 Qtr=2 Qtr=3 Qtr=4 (Use separate for each quadrant or numbers of Township Square from Green Spike (SE0) as defined in 327 IAC 15-5-2)
Qtr=1 Qtr=2 Qtr=3 Qtr=4
City of Indianapolis

2. Project Owner (Applicant)
(Project Owner Owner and Project Contact Information)

Project Owner (Applicant):
Indiana Department of Transportation
Project Owner's Name: Jim Underhill
Title/Position: Stormwater Team Leader
Address:
100 N. Senate Avenue, Room N642
City: Indianapolis
State: IN
ZP Code: 46204
Phone: (317) 233-6410
Fax: (317) 232-4039
E-Mail Address: (If Available) rphillabaum@dot.in.gov
Governmental Agency: ☐ Federal ☒ State ☐ Local Non-Governmental: ☐ Public ☐ Private ☐ Other: (If Listed)
Contact 2:
Company Name: (If Applicable) LS Engineering, Inc.
Consultant
Name: (Contact Person) (Attn:)
4270 N. High School Road
City: Indianapolis
State: IN
ZP Code: 46254
Phone: (317) 293-3442
Fax: (317) 293-4737
E-Mail Address: (If Available) dgoodi@lsengineering.com

3. Project Description
☐ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☐ Industrial ☒ Other: (Explain) Roadway/Transportation
Receiving Stream(s):
Little Rock Creek, Midnight Ditch, McFarland Creek, UNT 3 to Little Creek, UNT 4 and UNT 5 to Beech Creek

Note: If applicable, name of municipal operator of storm sewer and the ultimate receiving waters. If a retention pond is present on the property, the name of the receiving waterbody receiving water receiving discharge must be provided.
Project Acreage:
Total Acreage: 69.176 Acres
Proposed Land Disturbance: (In acres) 46.23 Acres
Total Impervious Surface Area: (In square feet, estimated for completed project) 2101680 SFT

NextLevel INDIANA

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Now, that we have looked at the NOI. We must grasp what the Storm Water Pollution Prevention Plan (SWPPP) is.

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SWPPP

The **S**torm **W**ater **P**ollution **P**revention **P**lan addresses three issues:

1. Outlines erosion and sedimentation control on the project site to minimize discharge of sediment off-site or to a jurisdictional waterway.
2. Addresses pollutants associated with construction activity including disposal of building materials, management of fueling operations, concrete washout water, etc.
3. Addresses pollutants associated with post-construction land use.

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It is the owner's responsibility to generate the SWPPP. The Rule 5 requires the owner or applicant to provide a plan on exactly how the project intends to minimize erosion and properly manage other pollutants out on site.

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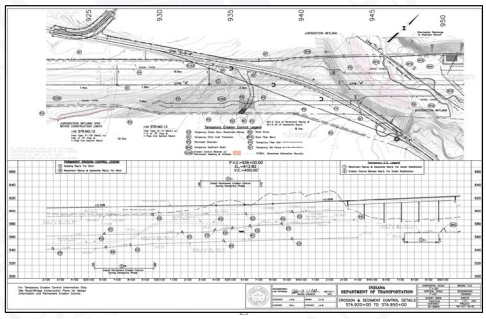
Contract Construction Plans



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Contract Construction Plans

Requirements:

- Jurisdictional waterways including wetlands must labeled on every sheet of the plans
- Grading Plan; where will the soil disturbance take place
- Topography
- Direction of water and drainage flow
- Erosion and sediment control measures at all phases of construction
- Stream impacts (pump around, crossings, etc.)

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Next, IDEM will issue a Notice of Sufficiency (NOS) letter after approval of the Rule 5 process. The NOS confirms receipt of all NOI submittal requirements.

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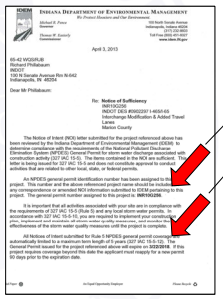
NOS

Notice of Sufficiency

- Letter from IDEM confirming the receipt of the NOI
- Contains permit number and expiration date
- Post at the job site



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

April 3, 2013

65-42 WQS/RJB
Richard Philibaum
INDOT
100 N Senate Avenue Rm N-642
Indianapolis, IN 46204

Dear Mr Philibaum:

Re: **Notice of Sufficiency**
INR100256
INDOT DES #0902397 I 4630-65
Interchange Modification & Added Travel Lanes
Marion County

The Notice of Intent (NOI) letter submitted for the project referenced above has been reviewed by the Indiana Department of Environmental Management (IDEM) to determine compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit for storm water discharge associated with construction activity (Rule 5). The NOI has been assigned a tracking number. This letter is being issued for 327 IAC 15-5 and does not constitute approval to conduct activities that are related to other local, state, or federal permits.

An NPDES general permit identification number has been assigned to this project. This number and the above referenced project name should be included in any correspondence or amended NOI information submitted to IDEM pertaining to this project. The general permit number assigned to this project is **INR100256**.

It is important that all activities associated with your site are in compliance with the requirements of 327 IAC 15-5 (Rule 5) and any local storm water permits. In accordance with 327 IAC 15-5-7(f), you are required to implement and maintain the effectiveness of the storm water quality measures until the project is complete.

All Notices of Intent submitted for Rule 5 NPDES general permit coverage are automatically limited to a maximum three length of 3 years (327 IAC 15-5-10). The General Permit issued for the project referenced above will expire on **3/23/2018**. If this project requires coverage beyond this date the applicant must reapply for a new permit 90 days prior to the expiration date.

Permit Number

Expiration Date

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5 Minute BREAK TIME

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SWQCP

Stormwater Quality Control Plan

- Developed by a professional engineer working for the Contractor with CPESC or CEPSC-In-Training certification.
- Addresses installation, maintenance and removal of stormwater management features

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The SWQCP contains phasing and sequencing of all operations.

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SWQCP

The SWQCP must include information on:

- Haul roads
- Stockpiles locations
- Equipment storage sites
- Plant sites
- Borrow and disposal sites (IC-203)
- Concrete wastewater plan

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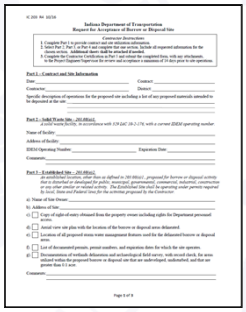
IC-203 Off-Site Borrow or Disposal Sites

Borrow and Disposal Sites

- Submitted by Contractor for proposed off-site borrow and disposal locations
- Three choices for proposed sites
- Engineer reviews submittal, visits proposed locations, and accepts/rejects location



IC-203 Rev 10/18

Indiana Department of Transportation
Request for Acceptance of Borrow or Disposal Site

Contractor Instructions:
1. Complete Part 1 to provide contact information.
2. Select Part 2, Part 3, or Part 4 and complete that one section. Include all requested information for the chosen section. **Additional sheet: shall be attached if needed.**
3. Submit completed form to the Engineer. Engineer will review and sign completed form, with any attachments, to the Project Engineer/Supervisor for review and acceptance a minimum of 10 days prior to site operations.

Part 1 – Contract and Site Information

Date: _____ Contract: _____

Contractor: _____ District: _____

Specific description of operations for the proposed site including a list of any proposed materials intended to be deposited at the site: _____

Part 2 – Solid Waste Site – (NI-400ist)

A solid waste facility, in accordance with 329 IAC 10-2-178, with a current IDEM operating number.

Name of facility: _____

Address of facility: _____

IDEM Operating Number: _____ Expiration Date: _____

Comments: _____

Part 3 – Established Site – (NI-400ist)

An established location, other than as defined in 329 IAC10-1, proposed for borrow or disposal activity. Such sites include, but are not limited to, a quarry, a gravel pit, a landfill, a wetland, a wetland mitigation site or any other similar or related activity. The Established Site shall be operating under permits required by local, State and Federal law for the activities proposed by the Contractor.

a) Name of Site Owner: _____

b) Address of Site: _____

c) ☐ Copy of right-of-entry obtained from the property owner including rights for Department personnel access.

d) ☐ Aerial view site plan with the location of the borrow or disposal areas delineated.

e) ☐ Location of all proposed storm water management features used for the delineated borrow or disposal areas.

f) ☐ List of documented permits, permit numbers, and expiration dates for which the site operates.

g) ☐ Documentation of wetlands delineation and archaeological field survey, with record check, for areas utilized within the proposed borrow or disposal site that are undeveloped, undisturbed, and that are greater than 0.5 acre.

Comments: _____

Page 5 of 9

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We have glanced at all of the parts of the SWPPP. Please note it is crucial the SWQCP must be submitted to the INDOT Engineer 14 days prior to operations.

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Pre-Construction Conference

The Importance of the Pre-Construction Conference for this process

- Best time to submit the Storm Water Quality Control Plan
- Team can develop Work Management and Communication Plans
- Stormwater team can discuss potential environmental issues and challenges
- Everyone given the opportunity to ask questions
- Verify that the project has all applicable permits and other contract documents

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NOT

Notice of Termination required by Rule 5

- 70% uniform density of permanent vegetation
- All temporary BMPs have been removed
- No additional earth disturbing activities are planned
- No active erosion
- Inspections must continue until NOT is achieved
- Construction Memo 19-10

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Ready for NOT ?

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Ready for NOT?

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Ready for NOT?

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Ready for NOT?

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NOT Process

Successful Strategies for Achieving NOT

- ✓ Topsoil salvage
- ✓ Timing of seeding and sodding
- ✓ Soil testing
- ✓ Appropriate soil amendments (fertilizer, pH, organic matter, etc.)
- ✓ Daily tracking of slopes
- ✓ Use of tackifier
- ✓ Mow to keep weeds from competing
- ✓ Use proper BMPs to reduce or eliminate the potential for erosion

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5 Minute BREAK TIME!!

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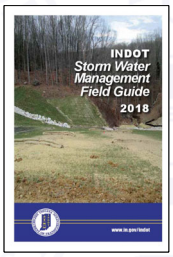
Storm Water Field Guide

2018 Edition

- ✓ **Updated photos**
- ✓ **Revised explanations and topic descriptions**
- ✓ **Expanded Appendix (Successful Strategies)**
  - Managing Hotspots
  - Notice of Termination
  - Decision Matrix
  - Definitions
  - Links



https://www.in.gov/indot/files/Indiana_Storm_Water_Field_Guide.pdf

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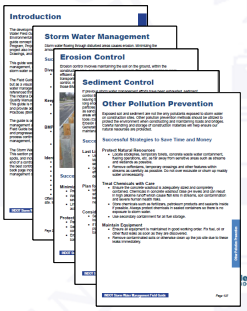
Storm Water Field Guide

Developed using a logical process

Topics include:

- **Introduction**
  - How to use the Guide
  - What is included in the Guide
- **Stormwater Management**
- **Erosion Control**
- **Sediment Control**
- **Other Pollution Prevention**



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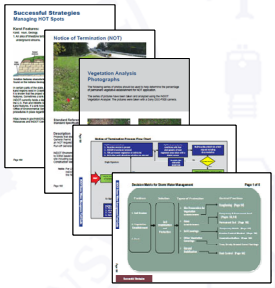
Storm Water Field Guide

Expanded Appendices

Information on:

- **Hot Spots**
  - Karst features
  - Protection slopes
  - Working in and around waterways
- **Notice of Termination (NOT)**
  - Vegetative analysis photos
  - Process Flow Chart
- **Decision Matrix**
  - Problem to Control Practice



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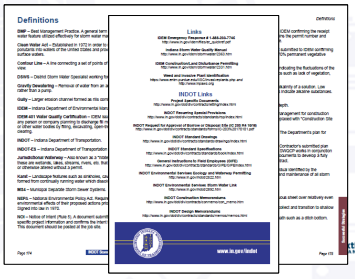
Storm Water Field Guide

Expanded Appendices, *continued…*

- **Definitions**
- **Resource Links**



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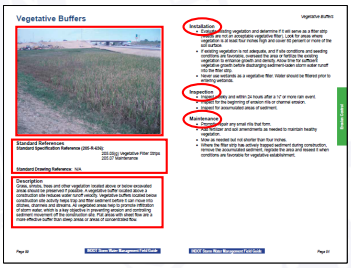
Storm Water Field Guide

Consistent Methodology for every BMP

- **4 Pages of Quick Reference**
  (*Pages 1 and 2*)
  - ✓ **Exemplary Photo**
  - ✓ **Spec Quick Reference**
  - ✓ **Quick Reference "Need to Know" Description**
  - ✓ **Concise "Big Three":**
    - Installation
    - Inspection
    - Maintenance



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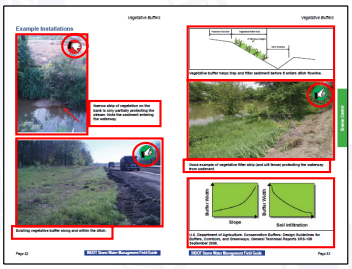
Storm Water Field Guide

Consistent Methodology for every BMP

- **4 Pages of Quick Reference**
  (*Pages 3 and 4*)
  - ✓ **Photos**
    - Thumbs Up
    - Thumbs Down
    - Quick reference captions
  - ✓ **Diagrams**
  - ✓ **Charts**



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Storm Water Field Guide

Created to Support Better Understanding of the Process

- ✓ Quick reference for field use
- ✓ Designed to be used by everyone on the crew
- ✓ To be utilized by all team members
- ✓ Physical copy for field
- ✓ Digital copy for office, laptop, tablet, or phone

The Field Guide will be referenced throughout the presentation to help you become familiar with its functionality.

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Types of BMPs

BMP = Best Management Practice

Two BMP Categories:

1. **Structural**

2. **Non-Structural**

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Types of BMPs

Non-Structural BMPs

Stormwater management practices that help anticipate issues and prevent costly problems

1. **Communication** (Page 19)
2. **Work Management Plan** (Page 20)

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Communication & Work Management

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Communication & Work Management

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Communication & Work Management

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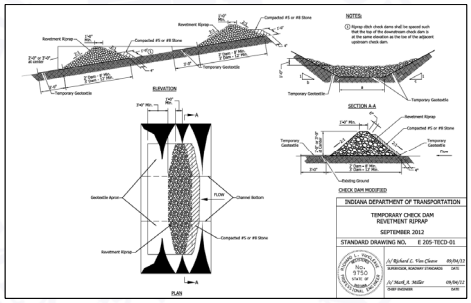
Communication & Work Management



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Communication & Work Management

- PE/PS and the Contractor should both understand **what**, **when**, and **how** BMPs should be installed.
- Compliance is **everyone's** responsibility.
- INDOT Specifications outline requirements… and consequences.

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Stormwater control, erosion control, sediment control, and other pollutant control prevention are four logical processes that must be implemented on a job site.

Let's review these topics with some on-site examples.

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Storm Water Management Process

Follow a Logical Process

1. Stormwater Management (Page 22)
2. Erosion Control (Page 49)
3. Sediment Control (Page 103)
4. Other Pollution Prevention (Page 137)

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Stormwater Control

Manage the storm water.
Direct it where you want it.

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Erosion Control

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Erosion Control

Keep soil in place.

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Sediment Control

Soil has moved off site into the adjacent creek

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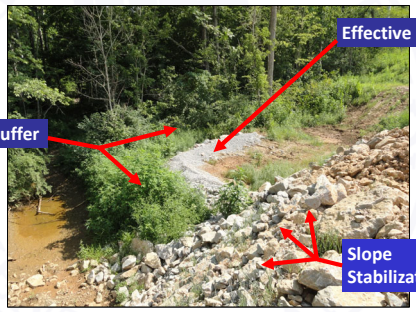
Sediment Control



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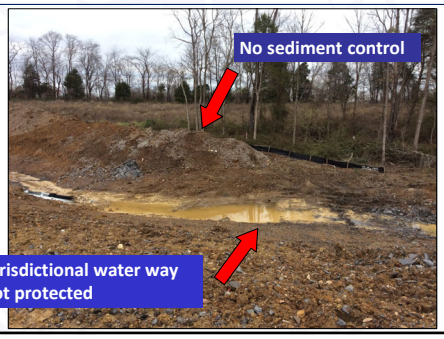
Sediment Control



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Sediment Control

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Concrete Washouts

66

Concrete Washouts

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Concrete Washouts

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Common Construction Pollutants

- Sediment
- Solid and sanitary wastes
- Fertilizer
- Herbicides
- Oil and grease
- **Concrete Wastewater**
- Construction chemicals
- Construction debris

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Pollution Control

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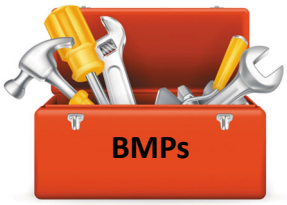
Preventing Potential for Pollution

What is in your Tool Box?



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Structural BMPs

BMPs should minimize or eliminate the potential for:

1. Erosion/Sediment movement
2. Off-site sedimentation into water bodies and wetlands

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Storm Water Management

Types of Best Management Practices

- **Non-Structural**
  - ✓ Phasing of grading operations
  - ✓ Know weather forecast
- **Structural**
  - ✓ Diversion Interceptors
  - ✓ Slope Drains
  - ✓ Rock Chutes

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Structural Storm Water Management

- **Erosion Control** (Page 49)
  - ✓ Vegetation
  - ✓ Mulch
  - ✓ Erosion control blankets
  - ✓ Geotextile
  - ✓ Check dams
  - ✓ Dust Control

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Structural Storm Water Management

- **Sediment Control** (Page 103)
  - ✓ Silt fence
  - ✓ Filter socks
  - ✓ Sediment traps & basins
  - ✓ Filter berms
  - ✓ Construction entrance
  - ✓ Inlet protection

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Structural Storm Water Management

- **Other Pollution Control** (Page 137)
  - ✓ Fuel containers
  - ✓ Concrete washouts
  - ✓ Port-o-lets
  - ✓ Trash Removal
  - ✓ Spill Response Program

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Common Sense "Free" BMPs

Minimize Disturbance

- Allow existing vegetation to work for you (trees, shrubs, herbaceous plants, grass)

Use Existing Vegetation

- Erosion control
- Sediment control

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Daily Roughening (Tracking)

The requirements for daily roughening of slopes is discussed in 203.09.

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Alternative BMPs

- Articulated Concrete Blocks
- Turf Reinforcement Mats
- Wood Chips (mulch or filter berm)

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Successful Practices: Review

Follow the storm water…

Basic Strategies for Success…

- ✓Leave as much existing vegetation as possible
- ✓Utilize horizontal roughening (tracking) on slopes
- ✓Seed and mulch exposed areas
- ✓Use a series of check dams in ditch lines
- ✓Place sediment traps at the perimeter before a stream

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45 Minute LUNCH BREAK!!!

81

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Know Your Hot Spots

83

Hot Spots: Streams

Jurisdictional stream not protected and continually driven through.

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Hot Spots: Streams

Why is sediment bad for streams?

- Reduces stream capacity – flooding
- Blocks sunlight – decreasing plant growth
- Destroys bottom stream habitat
- Sediment carries other pollutants

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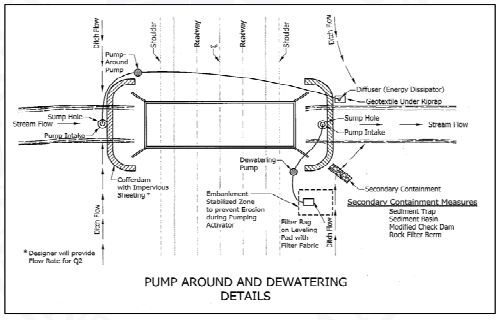
Isolate Waterways



PUMP AROUND AND DEWATERING DETAILS

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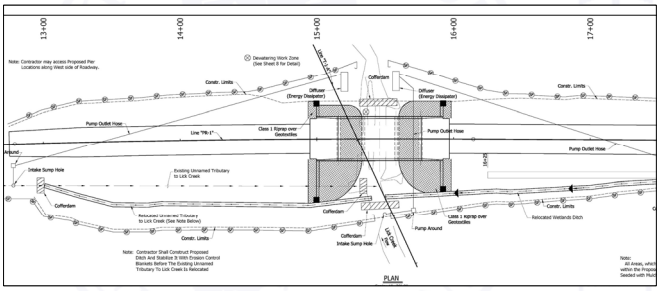
Isolate Waterways



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Isolate Waterways

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Isolate Waterways

89

Isolate Waterways

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Hot Spots: Streams

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Hot Spots: Stream Banks

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Hot Spots: Wetlands

- A wetland is an area of land that is saturated with water, either permanently or seasonally, such that it takes on the characteristics of a distinct ecosystem with its own animal and plant communities.
- Wetlands are required to be labeled every sheet of the plans.

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Hot Spots: Wetlands

Indicators of possible wetlands:

- Spongy soil
- Cattails and other "weird" plants
- Standing water
- Low area/topography
- Trees surrounded by farm land for no obvious reason
- Look at the plans
- Look at the waters report

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Hot Spots: Wetlands

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Other Hot Spots

- **Public roads**
  - Open to traffic
- **Unique features**
  - Wildlife habitat
  - Karsts features
  - Mines
  - Steep slopes
  - Long slopes

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Know Your Hot Spots

Storm Drains

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Hot Spots: Steep Slopes

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Hot Spots: Long Slopes

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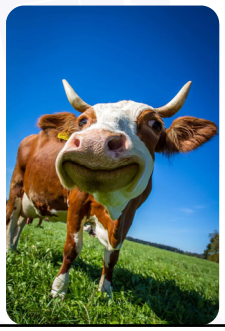
5 Minute BREAK TIME!!!



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Special Timing Considerations

- Weather (rain and snow events)
- Tree Clearing
- Seasons (rain, winter, mowing, seeding, drought)
- Other permits
- Labor strikes
- Availability of subs for vegetation management

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Special Timing Consideration

Weather

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Special Timing Considerations

- Bats (April 1-Sept. 30)
- Swallows (May 7-Sept. 7)
- Fish Spawning (April 1-June 30)

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Successful Strategies

- Create a **Communication Plan** (Page 19)
- Develop a **Work Management Plan** (Page 20)
- Know the **Topography**
- Know Your **Permits**
- Create **Feed Back Loop**
- Work as a **Team**
- **Do it Right the First Time.**

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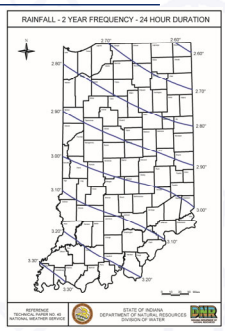
Successful Strategies

- Know the weather forecast
- Be proactive, schedule in advance
- Have a sub-contractor "Plan B"
- Sediment control as a "Plan B"
- Storm Water Quality Manager attends progress meetings



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Inspections

Site Visits

- District Erosion Control Specialist/Central Office Storm Water Specialists
  - Year-round
  - Technical assistance for permit compliance
- IDEM Inspections
  - Year-round
  - Initial and follow-up
  - May result in violation
- Other Agencies
  - Typically complaint-based

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Inspection

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Correction

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Year-Round Inspections

- During poor weather winter months, inspections are still required until NOT is achieved
- Remember, one inspection is required every 7 days
- Post event inspections for snow conducted **when snow melts**

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Contract Requirements

All types of projects must follow laws and regulations

- Over 1 acre - Rule 5 requirements such as SWQCP and inspections
- Under 1 acre – Still may require BMPs and inspections
- Review and understand Unique Special Provisions
- Follow Standard Specifications and Standard Drawings

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Contract Requirements

Were INDOT Standard Specifications followed?

- 108
- 205
- Others (714, 723)

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Compliance

How is Compliance Defined?

1. Compliance with all applicable laws and regulation
2. Compliance with the regulatory agencies
3. Compliance with INDOT contract

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Compliance

Possibilities for all types of contracts

Less ↕ More

- INDOT inspections
- Quality adjustments
- IDEM inspections
- Project shut down
- Violations/fines from IDEM and EPA
- Prequalification
- Loss of FHWA funding

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Compliance

205.08 Quality Adjustments

- **Who** issues Quality Adjustments?
- **When** can they be issued?
- **How** much?

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Compliance

205.08 Quality Adjustments

If maintenance deficiencies are not remedied within 48 h after identifying them in the inspection and in accordance with 205.07, the Contractor may be assessed damages for failure to maintain the required storm water management. ***For each day****, during which the following units of storm water management are in an unsatisfactory condition, a quality adjustment, in accordance with 109, will be assessed as shown* ***for each day****, per unsatisfactory unit.*

(a) Silt Fence: ***$100.00*** *per each contiguous 100 ft section or portion thereof*

(b) Check Dam: ***$100.00*** *per check dam*

(c) Sediment Basin: ***$100.00*** *per basin*

(d) Sediment Trap: ***$100.00*** *per trap*

(e) Inlet Protection Devices: ***$100.00*** *per unit*

(f) Failure to inspect site per 327 IAC 15-5 requirements: ***$100.00*** *per required inspection*

(g) Failure to temporary stabilize non-vegetated areas: ***$100.00*** *per acre or portion thereof*

(h) Failure to correct identified deficiencies not defined above: ***$100*** *per day per measure.*

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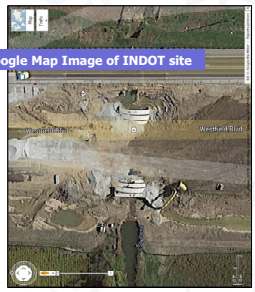
Compliance

Who has eyes on our projects?

- IDEM
- Local Soil and Water
- Local MS4
- EPA
- Army Corps of Engineers
- Federal Highway
- DNR
- Public
- All team members



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Compliance

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Contract Compliance

Permits are interconnected

- All prohibit discharge of sediment off-site or to waters (stream, wetlands, ponds, etc.)
- Violation of Rule 5, for instance, may violate IDNR floodway, 401, and 404 permits

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Contract Compliance

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Contract Compliance

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Standard Specifications

Section 205 Stormwater Management

- **S**torm **W**ater **Q**uality **C**ontrol **P**lan (SWQCP)
- Separation of SWPPP and SWQCP responsibility
- Identifies requirements of SWQCP developer
- Explains the role of the Storm Water Quality Manager (SWQM) Level I, and Level II
- Establishes payment under:
  - SWQCP **Preparation and Implementation**
  - Storm Water Management **Budget**

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Standard Specifications

Stormwater Specification Summary

- ✓ Brings the Contractor into a more accountable role for Storm Water Management
- ✓ Uses the common and understandable "Quality Control Plan" concept for Contractor submittals
- ✓ No Surprises with established prices if additional BMPs are required
- ✓ Better overall working plan for Storm Water Management from start to finish.

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Recurring Special Provisions

RSP 629-R-630 Plant Growth Layer

Intended for all contracts requiring a Rule 5 Permit

- ✓ **Performance Based** with Required Ranges for **Sand**, **Silt**, **Clay**, **Organics**, **pH**, **Phosphorus**, **Potassium**
- ✓ Contractor Provided Pre-bid "**Baseline**" Topsoil Information (spreadsheet within Geotech Reports)
- ✓ Choices for **Amendment** Application
- ✓ **Type "A" Certification** Required for In-Place Material
- ✓ Payment by the **Square Yard** for Specified Depth

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Take Home Message Summary

- ✓ Be familiar with your permits, MOUs, special provisions, and sequencing
- ✓ Water runs down hill and collects sediment on its way down
- ✓ It will rain on your project
- ✓ Don't put anything in a stream or wetland unless you have a permit to do so
- ✓ Don't treat your soil like dirt
- ✓ Don't let sediment leave the site or move into a stream or wetland

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Resources and Technical Assistance

- District Erosion Control Specialist in all 6 Districts
- Central Office Storm Water Specialists
- INDOT Contract Documents
- INDOT Standard Specifications and Design Drawings
- IDEM: Indiana Stormwater Quality Manual
  http://www.in.gov/idem/stormwater/2363.htm

(NOTE: INDOT Specs are often stricter than IDEM's suggestions)

- INDOT Environmental Services Storm Water Site
  http://www.in.gov/indot/2892.htm

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Successful Strategies

What Are

YOUR

Successful Strategies?

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Requirements Prior to Leaving this Training

- ✓**Understand testing sign-up procedures**
- ✓**Send a chat including your district & company**
- ✓**Screenshot, memorize, or write-down the following contacts:**

Rebecca Sumner- rsumner@indot.in.gov
Clara Furst- cfurst@indot.in.gov
Kurt Pelz- kpelz@indot.in.gov

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