Tracking Environmental Commitments During Construction

Gabe Robertson Stormwater Specialist

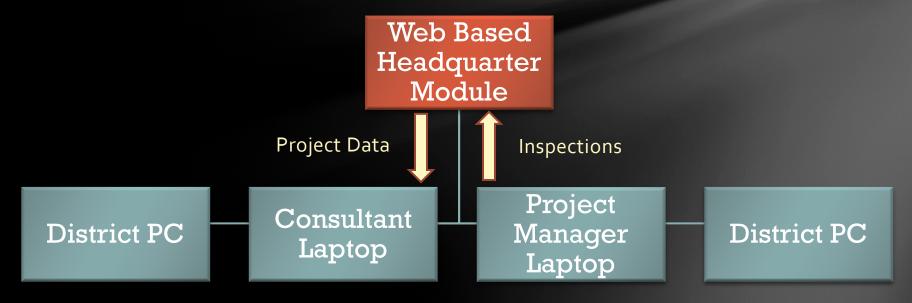


Overview

- What is ECODatabase
- Identifying Commitments to Track (Pre-Construction)
 - Project Setup
 - Project Review
 - Inspection Summary Sheet
- Documenting Commitments in the System (Construction)
 - Logging Inspections
 - Inspection Report Distribution
 - Corrective Actions
 - Inspection Reminders/Past Due Notices
 - Threatened and Endangered Species/Migratory Bird Surveys
- Reporting Commitments when Completed (Post-Construction)
- NDOR Certified Erosion Control Inspector List

What is ECO-Database?

- Electronic reporting software used to identify, document, and report environmental commitments on NDOR construction projects.
- Consists of inspection software loaded on field machines and a web based headquarter module that manages the data.
- A sync process exchanges data between user machines and headquarters.



Identifying Commitments – Project Setup

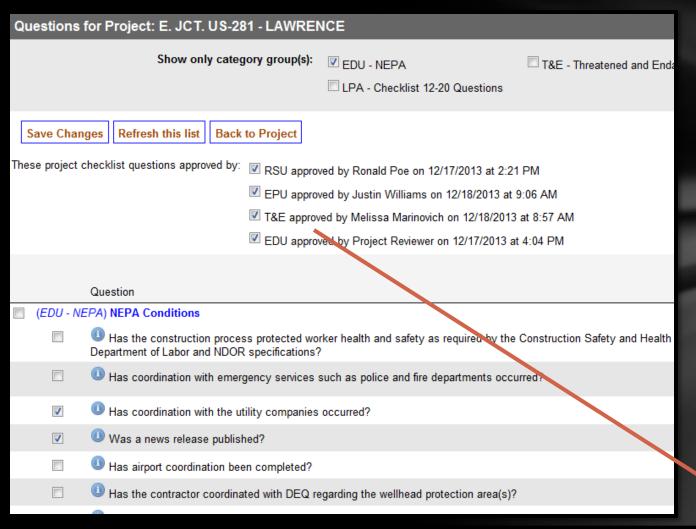
- Projects are manually created within the ECODatabase system and then additional project information is automatically pulled in from the SiteManager database on a regular basis:
 - Project Name/Number/Control Number
 - Project Description/Location
 - Project Manager/Responsible Charge
 - Prime Contractor
 - Key Dates (Letting, Notice to Proceed, Start & Completion)

	e Project Refresh this							
Project r	numbers marked in gree	en came from the SI	M/PES database.					
	Project number	Control number	Project name	NPDES Authorization Number	District	Manager	Let date	Status
EDIT	STP-4-4(108)	42654	E. JCT. US-281 - LAWRENCE	NER114199	4	Meyer, Steve	2/6/2014	Construction
EDIT	STP-41-5(107)	42591	IN GENEVA & WEST	No Permit Required	4	Anderson, Tom	2/6/2014	Construction
EDIT	RD-281-3(1014)	80948	BARTLETT NORTH & SOUTH	No Permit Required	8	Ziska, Dan	2/6/2014	Construction
EDIT	S-75-2(1059)	13216	UNION SOUTH	NER114184	1	Hobelman, Ryan	2/6/2014	Construction

Identifying Commitments – Project Review

- ECODatabase sign-off incorporated into existing Environmental Review Process within Planning and Project Development Division
 - Roadside Stabilization Unit
 - ✓ Manages the ECODatabase System
 - Reviews for stormwater and erosion control conditions
 - Environmental Permits Unit
 - ✓ Reviews for wetland and 404 permit conditions
 - Reviews for threatened and endangered species conditions
 - Environmental Documents Unit
 - Reviews for NEPA related conditions
- After reviews are completed, an ECOD Inspection Summary Report is generated and sent to the construction project manager.

Identifying Commitments – Project Review



Project name	Number	District	Manager	Let date	Status	Review
E. JCT US-20 NORTH	No Permit Required	5	Carnahan, Brian	2/6/2014	Construction	SPTD

ECOD Inspection Summary Report

- Sent to Construction Project Manager and District Environmental Coordinator before construction begins.
 - Contains Project
 Review Status
 - Outlines Required
 Inspections in ECOD
 - Highlights Species
 Conditions



Project Set Up Complete.

State-Wide Environmental Compliance Oversight Program - District 5

E. JCT US-20 NORTH

Environmental Inspection Summary Report Construction Project Set-up Review

This form was prepared to print on 3/27/2014. Changes made to this project after that date will not be reflected on this form. Please review this form carefully for accuracy with project commitments before completing the ES Construction Authorization Form.

NDOR Project Number: STP-87-4(117)

Control Number: 61606

MS4 Permit?: No

NPDES Permit Number: No Permit Required

404 Permit#: No Permit Required

T&E Species Assigned: Migratory Birds

Project Review Status

Project Review completed for: (All reviews completed on 2/12/2014)

✓ Erosion Control/Stormwater

✓ Threatened and Endangered Species

✓ Wetlands/404 Permitting

✓ Environmental Documents/NEPA

Summary of Required Inspections Anticipated

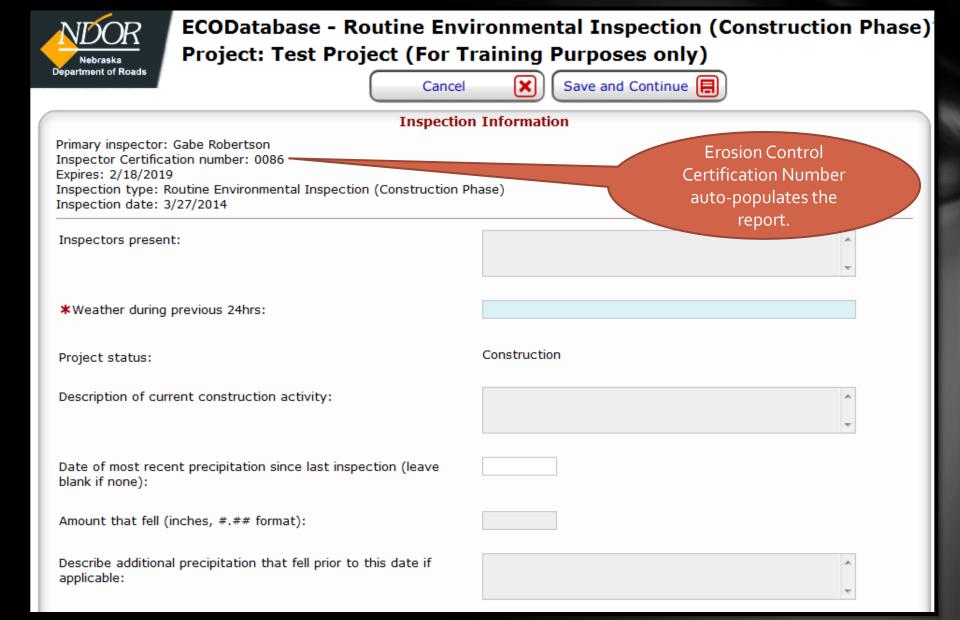
Inspection Types Enabled for Project	Estimated # Inspections		Responsible party	
Routine Environmental Inspection (Construction Phase)	12	Once every 14 days	NDOR Project Inspector	
Migratory Birds		Every 3-days during Bird nesting season (April 1 - September 1 for trees/shrubs, April 1 - Sept 30 for bridges/culverts)	NDOR Project Inspector	

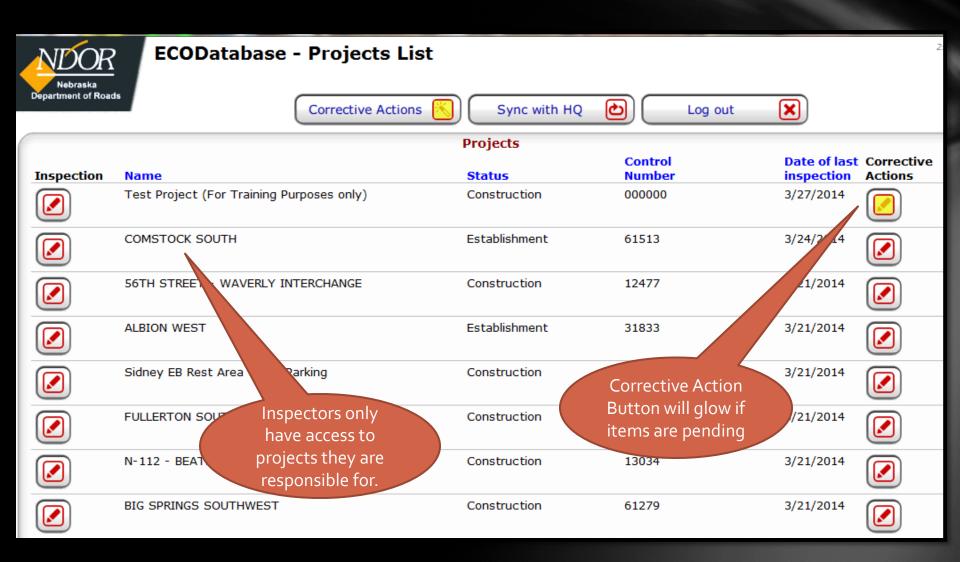
Species Notes

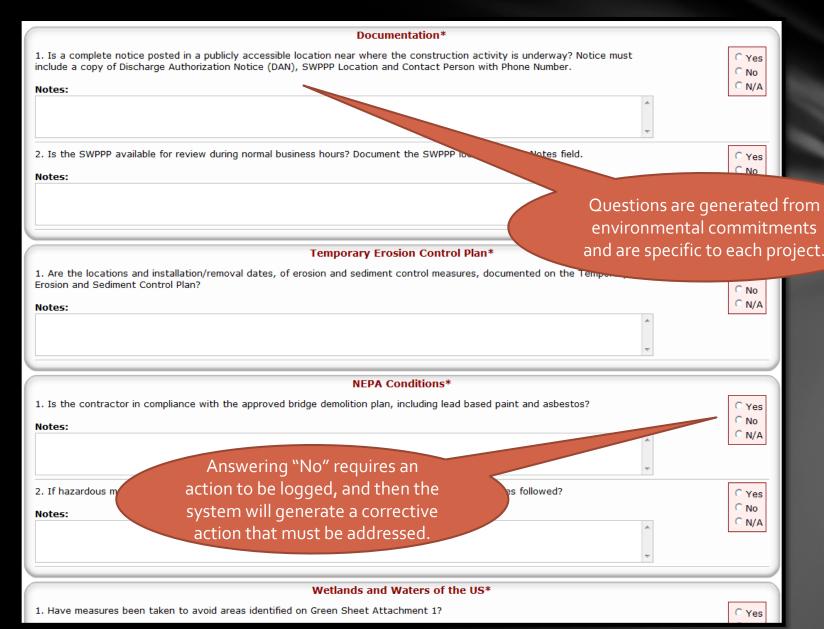
Swift Fox: A swift fox survey will be needed within 2-weeks prior to construction start. Contact Melissa Marinovich (Melissa.marinovich@nebraska.gov) to schedule this survey with NDOR Environmental. Migratory Birds: Migratory bird surveys are only required if they are part of the Contractor's plan to avoid impacts to migratory birds in trees, bridges, culverts, etc. Trees and shrubs should be cleared prior to April 1 if possible. Bridges or culverts should be netted or cleaned before April 1, if possible. Refer to NDOR Avian Protection Plan on NDOR website at: http://www.transportation.nebraska.gov/environment/guides/avian-protection-plan.pdf

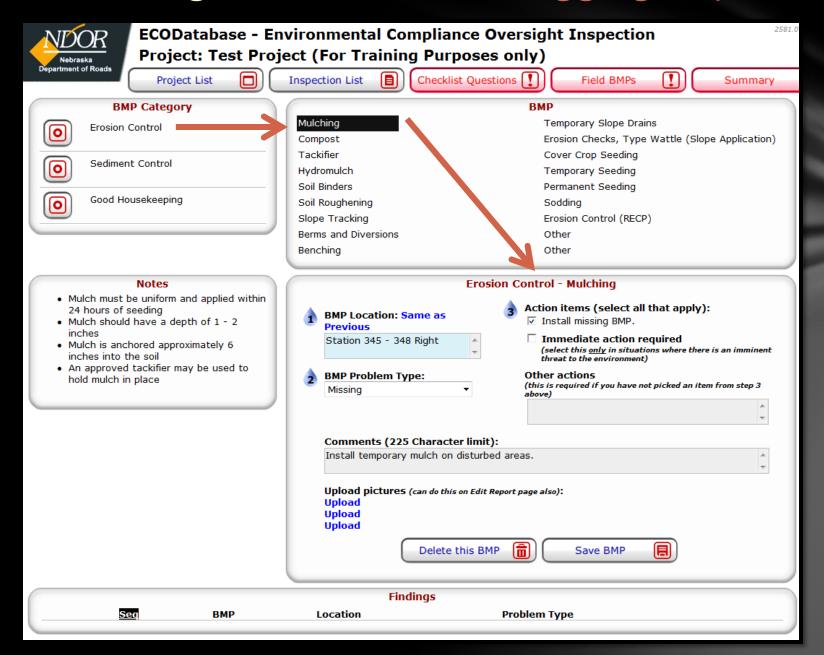
ECOD Inspection Tool

- Software installed on user machines
- Inspection reports are tailored to each project:
 - o Commitments become inspection questions in the field
 - Inspectors only have access to projects they are responsible for and inspections that they may conduct.
- NDOR environmental inspections are recorded using the ECOD system
 - Routine Environmental Inspection (Construction Phase)
 - Routine Environmental Inspection (Establishment Phase)
 - Environmental Compliance Oversight Inspection
 - Environmental Compliance Audit
 - Stormwater Permit Close-Out Inspection
 - Threatened and Endangered Species Survey
 - Migratory Birds Survey









Nebraska Department of Roads	District T: Test Project Purposes only)	ental Compliance Oversight Inspection				Sign and Seal button makes the reports final and un-editable.			
Project Number: Project Status:	Test Project Construction	Project Description:	NDOR Example Construction Project for training purposes. District staff can select this project to test the new software installed on thier machines (ECO-Database).		*	Inspectors can make report before signing			
Control Number:	000000	Contract ID Number:	0000						
Prime Contractor:	Example Prime Contractor Sun				of find	dings			
Current Activity:	Major grading and c	·				d) Corrective Actions	# Corrective Action Findings		
NPDES Permit #:	NERTest	Wetlands Permit #:	Not Re	rotal numb	er or prev	rious (unresolved) corrective actions:	6		
Primary Inspector:	Gabe Robertson	Certification Number:	0086 €	Documentation Corrective Actions Total number of documentation corrective actions:			# Corrective Action Findings 0		
Inspectors Present:	Test Inspector 1 Test Inspector 2	A		BMP Correc			# Corrective Action Findings		
Inspection Day weather:	cold and do.		Total numb	er of BMP	corrective actions:	0			
Most recent precipitation date	•			ined numl	ber of corrective actions:	6			
Other precipitation dates and	amounts (since last								
inspection):						Certification			
Introduction: An ENVIRONMENTAL COMPLIA	NCE OVERSIGHT INSPE	CTION was conducted fo	or this p	direction or s	upervision	of law, that this document and all attachment in accordance with a system designed to assu d the information submitted. Based on my inqui	ire that qualified personnelproperly		

this inspection allow NDOR to determine the environmental compliance status and an Corrective Actions.

The Environmental Compliance Oversight Inspection reviewed environmental commitmental and evaluated the effectiveness of measures taken to manage environmental compli Findings and any instances of Corrective Actions are provided in the following sectio NDOR compliance efforts. At the time of inspection, Findings may have been reporte Corrective Action. Failure to complete Corrective Actions may be a violation of the I Stormwater Permit issued for this project.

manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

This document has not yet been electronically signed by Gabe Robertson.



Sign and Seal Now A



NOTE: This report was formatted to print on 3/27/2014. It represents the most current information available for this inspection period at the time it was formatted on the user's computer.

Documenting Commitments – Inspection Report Distribution

- Completed inspection reports are automatically distributed (email) to pre-defined groups for review.
- Email contains web links to both the inspection report and corrective action log for the project.
 - PDFs of the report and corrective action log can be generated and printed using the included links.



Documenting Commitments – Corrective Actions

Inspection type: Status: Limit:				 □ Environmental Compliance Audit □ General Inspection Report Type □ Migratory Birds □ Routine Environmental Inspection (Establishment Phase) □ Threatened and Endangered Species □ pending □ pending past due □ completed 			 □ Environmental Compliance Oversight Inspection □ LPA Checklist 12-20 - Environmental Compliance Inspection Audit Form □ Routine Environmental Inspection (Construction Phase) □ Stormwater Permit Close-Out Inspection □ Wetlands Mitigation Monitoring 				
Refresh this list	PDF Puncl	h List									
Inspection type	BMP Category		Problem type	Location	Action taken	Inspection date	Due date	Date action taken	Submitted on	Uploaded on	Pending
Environmental Compliance Oversight Inspection	Erosion Control (RECP)	Details	Maintenance	1175+00 east slope at Hwy. 6 overpass.		3/25/2014	4/1/2014			3/27/2014	pending
Routine Environmental Inspection (Construction Phase)	Other	Details	Installation	Throughout project	Has been re pinned and added a little new in areas that was needed	3/21/2014	3/28/2014	3/25/2014	3/26/2014	3/26/2014	completed
Routine Environmental Inspection (Construction Phase)	Silt Fence	Details	Maintenance	STA 209+00, right side of ramp 2 EB	Ground still a little frozen to pull post	3/21/2014	3/28/2014	3/25/2014	3/26/2014	3/26/2014	completed
Routine Environmental Inspection (Construction Phase)	Slash Mulch	Details	Missing	Box at approximate STA 1208, both right and left	added a little extra slash mulch	3/21/2014	3/28/2014	3/25/2014	3/26/2014	3/26/2014	completed
Routine Environmental Inspection (Construction Phase)	Area Inlet Protection	Details	Missing	STA 1003, median	They shoveled some dirt but didnt mess with the vegetation area as to keep this inlet protected	3/21/2014	3/28/2014	3/25/2014	3/26/2014	3/26/2014	completed

Documenting Commitments – Corrective Actions

- A "Corrective Action Punch List" can be printed and filled out by contractor or inspector as things are completed.
- Inspectors then date-out each completed action within the system and items are removed from their to do list.



ECOD - Corrective Action Punch List

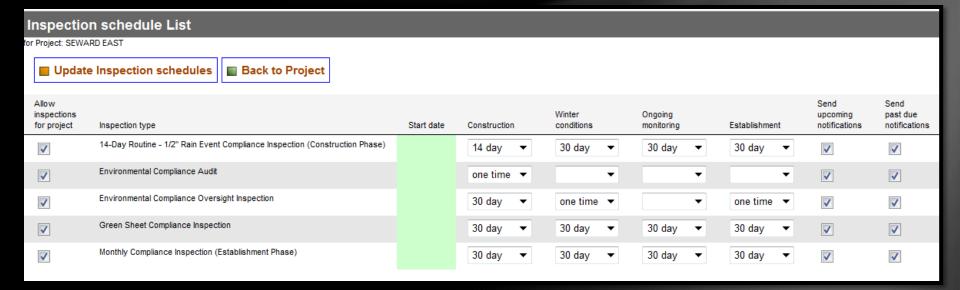
Project: 56TH STREET - WAVERLY INTERCHANGE

Created on 3/27/2014

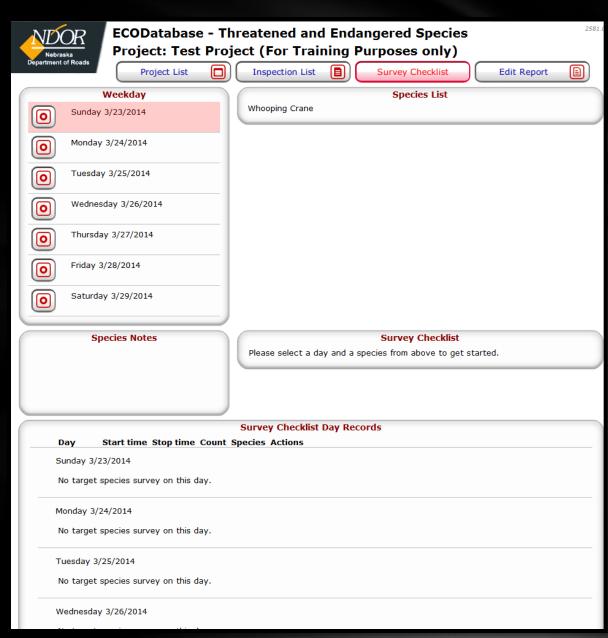
				Created	00 3/2//2014			
Inspection type	BMP category	Location	Inspection date	Due date	Inspector			
Environmental Compliance Oversight Inspection	Erosion Control (RECP)	1175+00 east slope at Hwy. 6 overpass.	3/25/2014	4/1/2014	Ron Prochaska			
Corrective Action/Inspector comments: Repair broken/malfunctioning BMP. Erosion blanket has been damaged by wind. Needs to be repaired and re-attached. Applicable Reference(s)								
Corrective action take	en:		Signed off	by: Acti	on date:			

Documenting Commitments – Inspection Reminders/Past Due Notices

- ECODatabase allows NDOR to schedule inspections and send out inspection reminders/past-due notices.
 - One day before an inspection is due, an "inspection reminder email" will be sent out to project inspectors.
 - Likewise one day after an inspection should have been logged in the system, an "inspection past-due notice email" will be send to project inspectors as well as select upper management personnel within the District.
- These are auto-generated by the system based off of the inspection frequency and phase of the project.
- Currently programming email notices for Threatened and Endangered Species Surveys.....



- Threatened and Endangered Species/Migratory Bird Surveys also logged using ECODatabase.
- Surveys are submitted on a weekly basis.
- Species are specific to each project and the time of year the survey is being completed.
- Reports are automatically sent to Headquarters for review and are then made available to Partner Agencies such as FHWA and USFWS.



Reporting Commitments when Completed

 ECODatabase has the ability to query data in the system and generate summary reports.

Report type List							
Select the type of report from the list below.							
	Title						
SELECT	Average Days to Perform Corrective actions						
SELECT	Project inspections						
SELECT	Number of Corrective Actions						
SELECT	Percent Environmental Commitments Inspection Reports Submitted						
SELECT	Percent Environmental Commitments In Compliance						
SELECT	Percent Corrective Actions Completed Within Seven Days						
SELECT	T & E Species Summary Report						

Reporting Commitments when Completed



ECODATABASE SUMMARY REPORT



Project Close-Out Report - PLATTE RIVER TO US-81

District: 4

Control Number: 42302

Documentation

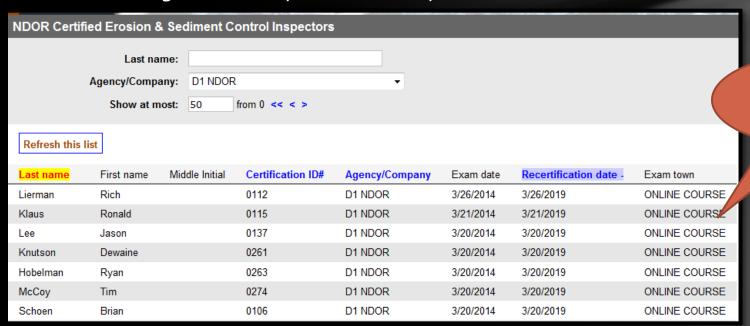
Project Number: STPD-92-d(107)

Environmental Compliance Oversight Inspection

Documentation	Date Satisfied	One-Time	Seasonal
Is a complete notice posted in a publicly accessible location near where the construction activity is underway? Notice must include a copy of Discharge Authorization Notice (DAN), SWPPP Location and Contact Person with Phone Number.	2/14/2014	N	N
Is the SWPPP available for review during normal business hours? Document the SWPPP location in the Notes field.	2/14/2014	N	N
Are inspection reports current and complete? Reports should cover all disturbed areas and must include findings of inspection and the corrective actions required.	2/14/2014	N	N
Is there a Spill Prevention Plan on-site?	2/14/2014	N	N
Have borrow, waste, or plant site approvals been acquired?	2/14/2014	N	N
emporary Erosion Control Plan	Date Satisfied	One-Time	Seasonal
Are the locations and installation/removal dates, of erosion and sediment control measures, documented on the Temporary Erosion and Sediment Control Plan?	2/14/2014	N	N
Are the following dates recorded: 1)Dates when grading occurred 2) Dates when construction activities temporarily or permanently ceased on a portion of the site.	2/14/2014	N	N
Are material stockpiles documented on the Temporary Erosion and Sediment Control Plan?	2/14/2014	N	N

NDOR Certified Erosion Control Inspector List

- NDOR requires inspectors to be certified in the Erosion Control Inspector Certification Program.
- The list of certified inspectors is managed through ECODatabase. A link to the database is available on NDOR's Environmental Website.
- Inspector ID's automatically populate the inspection report.
- The system issues notifications to individuals through email when their certification is about to expire. The notice contains a web link to the UNL-LTAP training site so they can re-certify.



Online Training is Now Available.

Down the road....

- Maintenance Facilities Environmental Inspections
 - Tank Inspections
 - SPCC etc.
 - Facility Runoff Control Plan (FRCP) Inspections
- Post Construction BMP Maintenance Inspections
- Wetland Mitigation Sites Inspection/Tracking

Questions?

Gabe Robertson

Highway Stormwater Specialist

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