



**Municipal Separate Storm Sewer System (MS4)
NDEQ Permit No: NE0134015
January 1, 2009 – December 31, 2009**

March 22, 2010

Nebraska Department of Environmental Quality
Wastewater Section
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Lincoln, NE 68509-8922

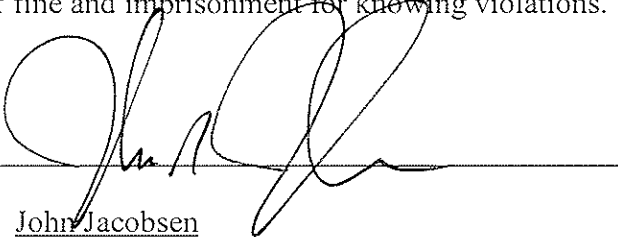
ATTN: Blayne Renner, Stormwater Program Coordinator

RE: Nebraska Department of Roads Municipal Stormwater Permit [NE0134015]

Dear Blayne:

Per Part IV.A of the Nebraska Department of Roads (NDOR) Municipal Stormwater Permit [NPDES Permit NE0134015], NDOR is submitting the attached, signed and certified Annual Report for Permit Year *Three* (*January 1, 2009 – December 31, 2009*).

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who 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."

Signed: 

Printed Name: John Jacobsen

Title: Deputy Director

Date: March 22, 2010

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Executive Summary of Program Activity

- ▶ The State-wide Storm Water Management Program (SWMP) was developed by the Nebraska Department of Roads (NDOR) in 2006 to comply with Municipal Separate Storm Sewer System (MS4) Permit application requirements.
- ▶ This Annual Report documents MS4 Permit compliance efforts made during year three, 2009 (January 1, 2009 through December 31, 2009).
- ▶ The following highlights the major accomplishments made in 2009:

Education

Approximately 349 individuals attended the *Erosion and Sediment Control: Inspection* course which was also offered seven times throughout in 2009. The NDOR “Construction Stormwater Best Management Practices” pocket guide was distributed to attendees at training classes and upon request to other agencies and individuals across the state. The pocket guide will continue to be distributed at future events and is also available for download on the NDOR Stormwater Webpage: <http://www.nebraskatransportation.org/environment/swppp.htm>.

Stormwater education is also a major component when implementing the Facility Runoff Control Plans (FRCPs) at NDOR maintenance facilities. Details regarding the number of FRCP trainings are provided in the Good Housekeeping/Pollution Prevention Section below.

Public Involvement

Sponsored by NDOR, the 19th annual Great Nebraska Trash-Off was held April 18-25. Approximately 2,932 Adopt-a-Highway volunteers filled 2,350 orange bags with roadside litter. Currently, 1,029 groups across the state have adopted 1,992 miles of highway roadsides as their own.

NDOR has also been collaborating with and attending meetings of the Nebraska Stormwater Cooperative and Papillion Creek Watershed Partnership. These groups consist of several MS4s that work together to share resources. NDOR has utilized these groups to coordinate specific MS4 requirements such as the Illicit Discharge Detection and Elimination Program and will continue to participate in future meetings.

Illicit Discharge Detection and Elimination

The NDOR Illicit Discharge Detection and Elimination (IDDE) Plan was finalized in 2009 and is available on the NDOR Stormwater Website. In addition to finalizing the IDDE plan, outfall mapping was completed for approximately 95% of NDOR outfalls within the Lincoln MS4. The remainder of outfalls in Lincoln will be mapped in 2010 and efforts will then be concentrated in the Omaha and South Sioux City Urbanized areas. Washington County has been recently permitted As an MS4. In 2010, NDOR will determine our limits of jurisdiction within this county. Outfall mapping will be scheduled for 2011.

Meetings were held with several MS4 communities to discuss coordination of the IDDE program and a memorandum of understanding (MOU) was developed to document this partnership. The MOU defines the responsible party for outfall mapping/monitoring along state highways and requests that outfall data is shared between agencies.

Construction

NDOR developed the Environmental Compliance Oversight Plan to improve how projects address construction site environmental commitments. This new process works in conjunction with the Environmental Compliance Inspections and requires a coordination of efforts between the Headquarters Office and District Offices across the state. Inspection reports are evaluated by key individuals who assess the need for additional measures and compliance inspections on the project. In addition to increased oversight on projects, NDOR is also attempting to improve the efficiency and consistency of stormwater inspection reporting by a new electronic database and inspection program. This new web-based software know as the Environmental Compliance and Oversight Database (ECOD) is customized for NDOR and allows inspectors to perform construction site compliance inspections on laptop and tablet computers and then upload those inspections directly to a headquarter module where reports can be viewed, printed and evaluated.

NDOR also implemented a special provision called the Environmental Commitment Deficiency Notification for projects let in May 2009 or later. This special provision imposes a monetary penalty for a corrective action not addressed within the 7-day window. The provision also allows contractors to receive an incentive payment when a corrective action is addressed within 48 hours of a rain event. In addition, corrective actions identified as “immediate action” deficiencies must be addressed within 24 hours to avoid monetary disincentives.

Post Construction

The Compliance Technical Advisory Group (CTAG) Post Construction Workgroup met throughout 2009 to work on the new Chapter III (Post Construction Stormwater Control) of the Drainage Design and Erosion Control Manual. Although a draft was completed, additional time is needed to produce a document that will address concerns and questions that exist today. A revised schedule for this activity includes scheduled meetings with Division Engineers in early 2010 to discuss comments on the draft. The rest of 2010 will be needed to continue developing the Chapter and to begin coordinating with Operations Division on the maintenance needs of Post Construction Treatment Best Management Practices (Treatment BMPs) being proposed. The current plan is to have Chapter III near completion by the end of this first permit cycle (2011) so that implementation can begin in 2012. NDOR also understands that while the program is being developed it may be to our benefit to select some pilot projects where Treatment BMPs can be incorporated prior to completion of Chapter III. This may provide useful information regarding how the site plan review process, design and construction of Treatment BMPs will be administered.

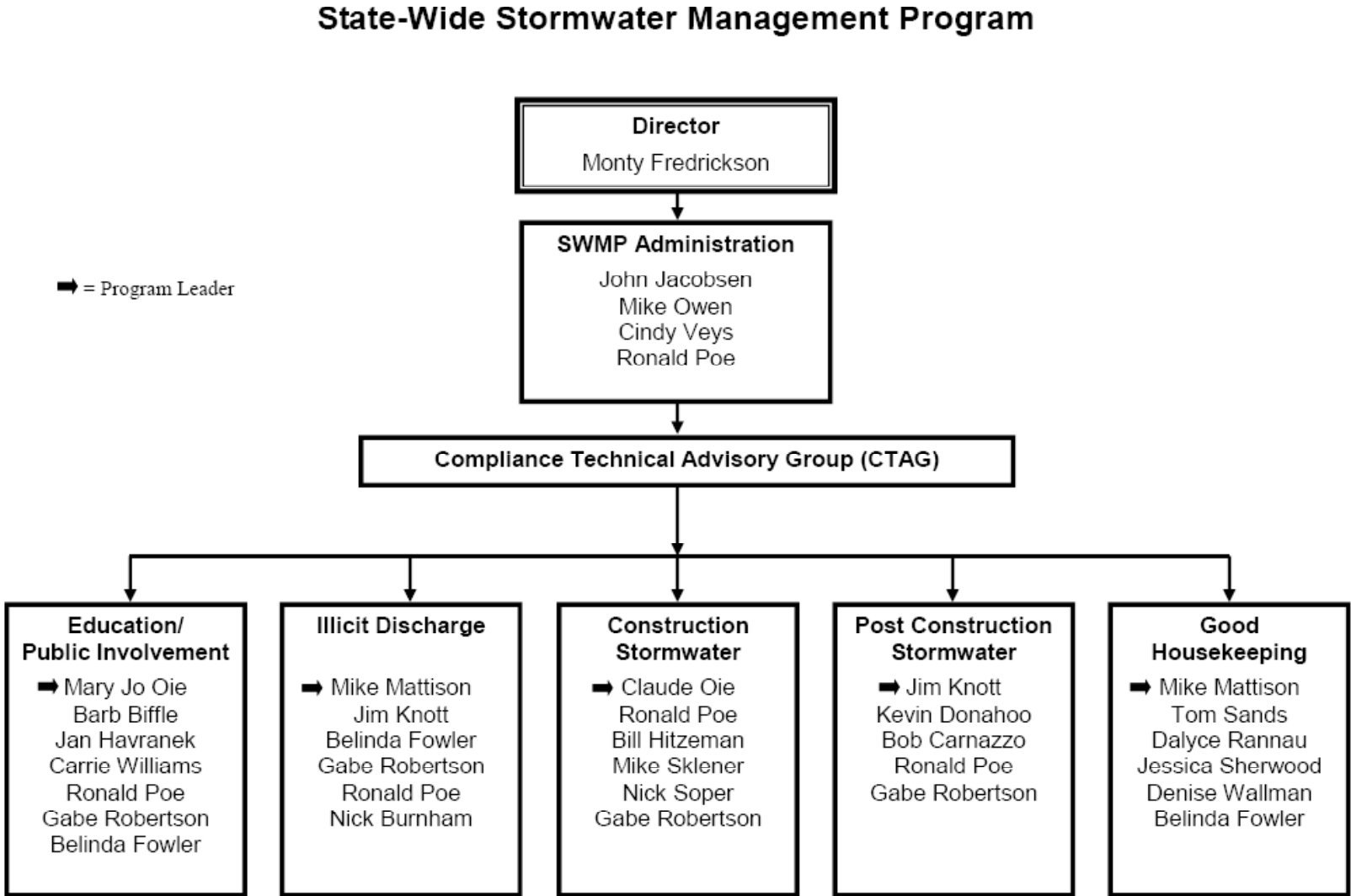
Good Housekeeping/Pollution Prevention

The Facility Runoff Control Plan Program development phase has been successfully implemented in every MS4 community where NDOR has maintenance facilities. NDOR implemented the associated Facility Runoff Control Plans (FRCPs) in accordance with the development document completed in December of 2008. In 2009, 10 site specific FRCPs were developed and/or finalized. Operations Headquarters (The Hill) finalized the FRCP draft and inspection process in 2009 and audits were conducted across Districts 1, 3 and 5 for FRCP's implemented during 2008. To facilitate training, a FRCP training CD was videotaped and edited in 2009. The final distribution will occur in 2010, after final editing is completed.

Figure 1-1 NDOR State-wide MS4 Areas



Figure 1-2 NDOR Compliance Technical Advisory Group



1.0 PUBLIC EDUCATION AND OUTREACH

Stormwater education programs continue to improve at NDOR. In 2009 NDOR trained 350 people in the NDOR Erosion and Sediment Control Inspector Course. This course provides the necessary certification required to oversee the installation and maintenance of erosion and sediment control measures on NDOR projects. Through 2009 nearly 800 people have received this certification across the state. In addition to construction stormwater related training NDOR also continued to implement the Facility Runoff Control Plan (FRCP) training program for NDOR facilities within MS4 boundaries. Approximately 135 employees participated in the Maintenance Facility Stormwater Awareness Education and approximately 30 employees participated in the Facility Runoff Control Plan Implementation training and are qualified to conduct monthly facility stormwater inspections required by the program.

An additional outreach tool NDOR is utilizing is the distribution of a quarterly environmental news bulletin. These newsletters provide NDOR staff with environmental permit updates, training opportunities and other environmental information. Downloadable copies are available on the NDOR website.

The 2009 measurable goals for Public Education and Outreach are summarized below.

Measurable Goal 1.1 (a) - Develop guidance materials on reducing storm water impacts to water bodies.

(Percent Complete = 60)

- ▶ Education and training provided in 2009 is summarized in Table 1.
- ▶ The NDOR Construction Stormwater Best Management Practices field guide (aka the pocket guide) continues to be a valuable educational tool. During the first year after completion approximately half of the printed guides (1500) were distributed across the state. In 2009 several hundred more copies were distributed at NDOR Erosion Control Training Events and were also sent to groups/individuals upon request.
- ▶ NDOR began distributing an environmental news bulletin in the summer of 2009 dedicated to Project Managers and Environmental Coordinators. These are being emailed out on a quarterly basis with information such as permit updates, training opportunities and other environmental news. Downloadable copies are available on the NDOR website.
- ▶ A brochure outlining the Operations-Environmental program was created and distributed at the 2009 NDOR maintenance conference.
- ▶ The NDOR Illicit Discharge Detection and Elimination (IDDE) Plan was completed in 2009 and information on this program was presented at the Annual Maintenance Conference. Additional stormwater training and compliance materials were provided at the environmental table during the conference.
- ▶ NDOR maintains a stormwater website at (www.transportation.nebraska.gov). A link on the home page takes visitors to "Environmental Info" and from there a link is provided to "Stormwater." This site is updated with training information and other tools for NDOR personnel and partners. In 2009 the stormwater website logged a total of 3642 visits.
- ▶ The CTAG Post Construction Workgroup met throughout 2009 to draft Chapter III (Post Construction Stormwater Control) of the Drainage Design and Erosion Control Manual. The original goal was to have the draft completed and begin training designers on the new requirements. Although significant effort was placed on completing the Chapter, more time is needed to produce a document that includes the necessary design and maintenance considerations for treatment BMPs.

Measurable Goal 1.1 (b) - Provide training on reducing storm water impacts to water bodies.

(Percent Complete = 60)

- ▶ Training provided in 2009 is summarized in Table 1.
- ▶ A total of 349 individuals attended the *Erosion and Sediment Control: Inspection* course which was offered seven times throughout the year. A total of 25 individuals attended the *Erosion and Sediment Control: Design Basics* course which was held once during the year. The content included in the courses is constantly updated as feedback is received from course attendees and as new BMPs are developed within the stormwater field.
- ▶ NDOR continued the FRCP education and training program with two on-site courses provided at 10 different facilities. Approximately 135 employees participated in the Maintenance Facility Stormwater Awareness Education and approximately 30 employees participated in the Facility Runoff Control Plan Implementation training which qualifies them to conduct monthly facility stormwater inspections.
- ▶ A NDOR Facility Runoff Control Plan (FRCP) Program training CD has been developed and will be distributed to maintenance facilities across the state in 2010 after final edits are completed.
- ▶ Approximately 200 NDOR employees participated in various classes such as Spill Prevention Control and Countermeasures and Pesticide Applicator Certifications that relate to good housekeeping principles and protecting water quality.

Measurable Goal 1.1 (c) - Participate in local and regional outreach efforts.

(Percent Complete = 60)

- ▶ New curb inlets installed have “No Dumping” stamped into the concrete on the top of the inlet.
- ▶ Environmental Awards were provided to the Columbus and Plainview Maintenance Facilities. The Columbus facility was recognized for Good Housekeeping and Illicit Discharge Prevention. Plainview staff was awarded for their efforts to implement stormwater runoff controls at their facility.
- ▶ Fifteen Lincoln-area high school students in the UNL Upward Bound Program conducted research at the NDOR District 1 facility in Lincoln to evaluate whether or not a project at the site will have a positive impact on water quality. NDOR staff involved in the project assisted students in learning and understanding real-life challenges in protecting the environment while performing essential road operations. Students worked six hours a week for seven weeks over summer 2009 to collect data on common water quality parameters such as temperature, conductivity and flow measurements. They shared their findings with their peers and NDOR staff during a PowerPoint presentation on July 20. The project site is located at the channel of Lynn Creek, which runs through District 1 headquarters in Lincoln and bisects the NDOR operations facility.
- ▶ NDOR continues to partner with Nebraska Local Technical Assistance Program (LTAP) to administer the Erosion and Sediment Control courses and certification process.
- ▶ NDOR attended meetings of the Papillion Creek Watershed Partnership and Nebraska Stormwater Cooperative.

Table 1 Number and Nature of Education Programs

Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
April/May Edition: Roadrunner Articles	NDOR Employees, Various State Agencies, and Citizens	3,600 hard copies and publication on NDOR Website (387 views)	1 Article - Construction Project Receives Environmental Award 1 Article – Roadside Flowers and Grasses	X		X	X	
June/July Edition: Roadrunner Articles	NDOR Employees, Various State Agencies, and Citizens	3,600 hard copies and publication on NDOR Website (4269 views)	1 Article – Environmental Awards Given at Maintenance Conference. 1 article – NE Trash Off Event	X	X			X
Aug/Sept Edition: Roadrunner Articles	NDOR Employees, Various State Agencies, and Citizens	3,600 hard copies and publication on NDOR Website (4392 views)	1 Article – BMP Pocket Guide 1 article – Water Quality Project with Local Students	X		X		X
Oct/Nov Edition: Roadrunner Articles	NDOR Employees, Various State Agencies, and Citizens	3,600 hard copies and publication on NDOR Website (4785 views)	1 Article – NDOR Receives Environmental Excellence Award 1 Article – Environmental Workshops Assist Local Public Agencies	X		X		
Spring Edition: NDOR Environmental Bulletin	District Offices, Project Managers, Environmental Coordinators	Approx 200 copies and publication on NDOR Website (165 views)	Information on Stormwater, Wetlands, Vegetation, Threatened/Endangered Species and Training	X		X		
Summer Edition: NDOR Environmental Bulletin	District Offices, Project Managers, Environmental Coordinators	Approx 200 copies and publication on NDOR Website (171 views)	Information on Stormwater Permit, Wetlands, Vegetation, Threatened/Endangered Species and Training	X	X	X	X	X
Fall Edition: NDOR Environmental Bulletin	District Offices, Project Managers, Environmental Coordinators	Approx 200 copies and publication on NDOR Website (172 views)	Information on Stormwater Permit, Spill Prevention and Upcoming Training	X	X	X		X

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Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
February 12: NDOR/AGC Partnership Meeting	NDOR Employees, Contractors	25 NDOR employees and contractors	Seeding/Erosion Control and Grading Committee Meetings	X		X	X	
February 8-13: International Erosion Control Association Meeting	Project Managers, Design Engineers, Contractors, Consultants	2 NDOR Employees, 1855 Total Attendees	Attended seminars on RUSLE II, effluent limitation guidelines, and research associated with erosion control.	X		X	X	
February 19: North Platte, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	64 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
February 20: Grand Island, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	54 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
February 25: District Environmental Summit	NDOR Employees (District Offices, Construction Office, Environmental Office)	12 NDOR Employees	NDOR Environmental Programs Coordination Meeting	X	X	X	X	X
February 26: NDOR Interagency Environmental Meeting	Regulatory Agencies, General Contractors, Stakeholder Agencies	35 Attendees (NDOR Employee's and Regulatory Agency Staff)	Update given on Sediment /Erosion Control and Stormwater program.	X	X	X	X	X
February 27: Operations (Hill) DAS Facility Runoff Control Plan Implementation	District Operation and Maintenance Facility Staff	3 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X

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Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
March 3: FRCP Initial Site Visit and Training-Elkhorn Maintenance Facility	District Operation and Maintenance Facility Staff	22 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
March 4: FRCP Initial Site Visit and Training-Fremont Maintenance Facility	District Operation and Maintenance Facility Staff	18 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
March 4: Omaha, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	65 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
March 5: Norfolk, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	47 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
March 17: NDOR Project Managers Conference	District Project Managers, District Construction Engineers, Assistant Construction Engineers, Contractors	Approximately 300 NDOR Employees	Environmental award given to Contractor and Project Manager for Project of the Year. Breakout sessions discussing erosion/stormwater topics.	X		X		
March 23: FRCP Audit-D1 Beatrice Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
March 24: FRCP Audit-D1 Salt Valley View Maintenance Facility	District Operation and Maintenance Facility Staff	3 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X

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Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
March 25: FRCP Audit-D1 Superior St Maintenance Facility	District Operation and Maintenance Facility Staff	5 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
April 2: FRCP Implementation Site Visit and Training-Elkhorn Maintenance Facility	District Operation and Maintenance Facility Staff	6 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
April 3: FRCP Implementation Site Visit and Training-Fremont Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
April 6: MS4 Annual Review Presentation	NDOR, NDEQ, FHWA, NDOR Employees	25 Attendees	This is an update for upper management and agencies on the MS4 program.					
April 7: FRCP Initial Site Visit and Training-Omaha, South 25th St	District Operation and Maintenance Facility Staff	16 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
April 8: FRCP Initial Site Visit and Training-Omaha, Mormon Bridge Maintenance Facility	District Operation and Maintenance Facility Staff	10 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
April 13: TTI Erosion Lab Meeting, TX	State DOTs and TTI Staff	1 NDOR Employee attended this meeting.	Annual oversight committee meeting discussing research at the TX Transportation Institute for erosion and sediment control.	X		X		

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				Water Quality	IDDE	CSW	PCSW	PP/GH
April 18-25: Great Nebraska Trash-off	NDOR Employees, Community Groups, Citizens	1029 Groups and 2,932 Volunteers State-wide	Education through participation in cleaning up trash along the State Highway System and stream crossings.	X	X			
April 28: NDOR Roadway Design Conference	NDOR Design Engineers	250 Attendees	Conference included breakout sessions introducing upcoming environmental issues affecting designs.	X		X	X	
April 30: ASP Clean and Green Conference	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	Approx. 150 Attendees	Conference to highlight products in sediment and erosion control.	X		X	X	
April-May: Biology Education	Middle School and High School Students Interest Groups	130 Lincoln North Students	Classroom education of wetland biology, soils, and hydrology. Presentation on stormwater, erosion control, and stabilization	X		X	X	
May 5-7: NDOR Operations and Maintenance Conference	District Engineers, District Operation and Maintenance Managers, and Maintenance Superintendents, Supervisors and Mechanics	361 NDOR employees, Nebraska State Patrol, Guest Presenters. Also 55 Vendors	Improving Roadside Vegetation Management, Stormwater Compliance Responsibilities at the District Operation and Maintenance Level, Facility Runoff Control Plans, Illicit Discharge Detection and Elimination Presentation, NDOR Asset Management, Environmental Liability and Documentation, Good Housekeeping Award and Erosion and Runoff Control Award 2009.	X	X	X	X	X

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Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
May 9: FRCP Initial Site Visit and Training-Omaha, South 108 th St Maintenance Facility	District Operation and Maintenance Facility Staff	19 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
May 12-15: Federal Wetlands/Water Regulatory Policy Course	NDOR Environmental Staff, NDOR Designers, Consultants	75 Attendees	Wetlands and water regulatory policy course administered by the Wetland Training Institute.	X		X	X	
May 18: FRCP Implementation Site Visit and Training-Omaha, South 25 th St Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
May 19: AGC/NDOR Construction Industry Days	Contractors and NDOR Staff	Approx. 20 Attendees	Regular meeting of AGC and NDOR. Includes Seeding/Erosion Control Committee Meeting.	X		X	X	
May 19: FRCP Implementation Site Visit and Training-Omaha, Mormon Bridge Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
May 20: FRCP Implementation Site Visit and Training-Omaha, South 108 th St Maintenance Facility	District Operation and Maintenance Facility Staff	6 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 2: FRCP Initial Site Visit and Training-Blair Maintenance Facility	District Operation and Maintenance Facility Staff	13 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X

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				Water Quality	IDDE	CSW	PCSW	PP/GH
June 3: FRCP Initial Site Visit and Training-Plattsmouth Maintenance Facility	District Operation and Maintenance Facility Staff	10 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 5: FRCP Initial Site Visit and Training-David City Maintenance Facility	District Operation and Maintenance Facility Staff	11 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 15: FRCP Audit-D3-Columbus Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 15: FRCP Audit-D3-Norfolk and Norfolk Salt Storage Facility	District Operation and Maintenance Facility Staff	6 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 16: FRCP Audit-D3-Wayne Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 16/17: FRCP Audit-D3-South Sioux City and Dakota City (unmanned)	District Operation and Maintenance Facility Staff	5 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
June 17: Omaha, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	51 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

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				Water Quality	IDDE	CSW	PCSW	PP/GH
June 18: Lincoln, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	39 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
July 8: NDOR District Environmental Coordinators Meeting	NDOR Employees	20 Attendees	Quarterly Meeting with Environmental Staff from District Offices.	X		X	X	
July 9: NDOR/FHWA/NDEQ Annual MOU Meeting	Agency and NDOR Staff	Approx. 25 Attendees	Discuss upcoming changes in regulations related to noise, air and water.	X		X	X	
July 14: FRCP Implementation Site Visit and Training-Blair Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
July 15: FRCP Implementation Site Visit and Training-Plattsmouth Maintenance Facility	District Operation and Maintenance Facility Staff	4 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
July 16: FRCP Implementation Site Visit and Training-David City Maintenance Facility	District Operation and Maintenance Facility Staff	5 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
July 29-31: Hydrology and Hydraulics for Culvert Design in Nebraska	Project Managers, Design Engineers, Consultants	27 NDOR employees, contractors and consultants	Sponsored by NDOR. Taught by Dr. Hotchkiss from BYU. Course focused on drainage pipes, culverts, and drainage channels as well as slowing water velocity and energy.	X		X	X	

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Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
August 4: FRCP Initial Site Visit and Training-Papillion/Melia Hill Maintenance Facility	District Operation and Maintenance Facility Staff	9 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
August 13: AGC/NDOR Seeding/Erosion Control Committee Meeting	Contractors and NDOR Staff	25 Attendees	Association of General Contractors Meeting with NDOR. Seeding and Erosion Control discussed during committee meetings.	X		X	X	
August 25: FRCP Audit-D5-Gering Maintenance Facility	District Operation and Maintenance Facility Staff	5 NDOR O&M employees	Educate facility staff on the FRCP, Good Housekeeping, and Stormwater Pollution Prevention	X				X
August 31-Sept 4: Wetland Delineation Training	Environmental Permitting Staff	8 NDOR staff attended 40-hour training	Certification provided for wetland delineation	X				
September 9: NEFSMA Post Construction Workshop	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	Approx. 50-75 Attendees	NE Floodplain and Stormwater Managers Association Workshop on Post Construction BMPs. Included a field trip to view installations of BMPs around Omaha.	X			X	
September 15: Kearney, NDOR Certified Erosion and Sediment Control Inspector Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	35 Attendees	Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
September 16-17: Lincoln, NDOR Erosion and Sediment Control Design Training	Project Managers, Design Engineers, Contractors, Consultants, Builders, Vendors, Trade Contractors	25 Attendees	Training Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

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				Water Quality	IDDE	CSW	PCSW	PP/GH
October 13: NE Stormwater Cooperative Meeting	Phase II Stormwater Manager Program Managers	10 Attendees	Stormwater Managers Meeting (Grand Island, Columbus, Fremont, Hastings, Kearney, Lexington, Norfolk, North Platte, Scottsbluff and NDOR)	X	X	X	X	X
October 15: NDOR Quarterly Interagency Meeting	Agency and NDOR Staff	Approx. 20 Staff	Quarterly meeting to discuss projects and environmental regulations.	X		X	X	
October 15: NDOR District Environmental Coordinators Meeting	NDOR Employees	20 Attendees	Quarterly Meeting with Environmental Staff from District Offices.	X		X	X	
October 22: Papillion Creek Watershed Partnership Meeting	MS4 Program Managers	2 NDOR Employees Attended	Papillion Creek Watershed Partnership Meeting consisting of Omaha, Bellevue, Boys Town, Gretna, La Vista, Papillion, Ralston and Sarpy County.	X	X	X	X	X
October 28-29: IECA Conference, KS	Engineers, Landscape Architects, Contractors, Project Managers	1 NDOR Employee Attended	NDOR presented on Certified Erosion and Sediment Control Inspector Program.	X		X	X	
November 12: Bioretention Workshop, Omaha	Engineers, Landscape Architects, Contractors, Project Managers	2 NDOR Employees Attended	Bioretention workshop sponsored by City of Omaha.	X			X	
November 17: Papillion Creek Watershed Partnership Meeting	MS4 Program Managers	2 NDOR Employees Attended	Papillion Creek Watershed Partnership Meeting consisting of Omaha, Bellevue, Boys Town, Gretna, La Vista, Papillion, Ralston and Sarpy County.	X	X	X	X	X
November 18: Effluent Limitation Guidelines Webinar	Stormwater Program Managers	6 NDOR Employees	EPA webinar concerning the effects of Effluent Limits on DOTs.	X		X	X	

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(January 1 to December 31, 2009)*

Education Provided or Information Distributed	Target Audience	Attendance/ Number Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
November 18: Urban Soils Lecture, UNL	UNL Landscape Architecture Students	15 Students	Discuss with students the role of Landscape Architects within NDOR.					
Ongoing: Environmental Compliance Oversight Inspections	NDOR Staff/ Contractors	Approximately 15 Site Visits	These inspections review environmental compliance on projects.	X		X		
Ongoing: Spill Prevention Control and Countermeasure (SPCC)	NDOR Employees responsible for handling oils and fuels	NDOR O&M Employees completed the on-line course	Course is provided to comply with SPCC education requirements for employees that handle oil and fuels	X				X
Ongoing: Additional Good Housekeeping Web-based training courses	NDOR Employees	150 individuals completed one of the 4 on-line courses	"Cleaning up Small Chemical Spills", "Flammable and Combustible Liquids", "Housekeeping on the Job", and "Materials Handling and Storage"	X	X			X
Ongoing: Local Public Agencies (LPA) Training	NDOR Employees, Cities, Counties, Consultants	155 individuals	New environmental training required by FHWA and sponsored by NDOR/LTAP for LPAs. Includes Stormwater Permit Module.	X		X	X	
Ongoing: Bi-Weekly Post Construction CTAG Workgroup Meetings	NDOR Post Construction Program Work Group	3-6 NDOR Employees	Bi-Weekly Meetings to develop Chapter III of Erosion Control and Drainage Design Manual	X			X	
Ongoing: NDOR Website	NDOR employees and the general public	3,642 visits to the Stormwater Site	MS4 Permit, SWMP Work Plan, and Educational Slide Shows added in 2007	X	X	X	X	X
Ongoing: "No Dumping" inlets	The General Public	Specified on new urban projects	Concrete Stamp	X	X			

Public Education and Outreach Activities Scheduled for 2010

Measurable Goal 1.1 (a) - Develop guidance materials on reducing storm water impacts to water bodies.

- Continue to develop Chapter 3: Post Construction Stormwater Control, for the Drainage Design and Erosion Control Manual
- Coordinate with Operations Division to update the Maintenance Manual with Treatment BMP maintenance requirements as Chapter III is developed.
- Update the stormwater information available on the internet as it becomes available.
- Develop outfall mapping/monitoring field guidance document for Illicit Discharge Detection and Elimination Program.
- Complete and distribute FRCP Training CD
- Continue to distribute Erosion and Sediment Control BMP Field Guide at training and other outreach events.

Measurable Goal 1.1 (b) - Provide training on reducing storm water impacts to water bodies.

- Offer the NDOR Erosion and Sediment Control Inspector training course as needed throughout the year.
- Coordinate with any additional non-regulated maintenance facilities to voluntarily implement the FRCP (upon request).
- Conduct FRCP Audits of MS4 facilities in District 2 and Operation Headquarters.

Measurable Goal 1.1 (c) - Participate in local and regional outreach efforts.

- Collaborate with LTAP to administer Erosion and Sediment Control courses.
- Continue to participate in local and regional outreach efforts with organizations such as Papillion Creek Watershed Partnership and Nebraska Stormwater Cooperative to promote stormwater education.
- Present environmental awards to acknowledge the good work being done across the state.

2.0 PUBLIC PARTICIPATION AND INVOLVEMENT

The 2009 measurable goals for Public Participation and Involvement are summarized below.

Measurable Goal 2.1 (a) - Continue to follow established public participation policies and procedures for NDOR projects.

(Percent Complete = 60)

- ▶ Each project let in 2009 achieved the NDOR Public Participation Policy standards.
- ▶ The Compliance Technical Advisory Group (CTAG) held three formal meetings to review the current SWMP Implementation. The CTAG Work Groups for each Minimum Control Measure met throughout the year for program and project specific reasons.

Measurable Goal 2.1 (b)(c) - Engage public and track participation in environmental stewardship programs such as Adopt-A-Highway and Wetlands Bank Education.

(Percent Complete = 60)

- ▶ Environmental stewardship programs are summarized in Table 1.
- ▶ The 19th annual Great Nebraska Trash-Off was held April 18-25. Approximately 2,932 Adopt-a-Highway volunteers filled 2,350 orange bags with roadside litter. Currently, 1,029 groups across the state have adopted 1,992 miles of highway roadsides as their own.
- ▶ Roadside Stabilization staff presented wetland biology and stormwater information to approximately 130 Lincoln North Star High School students.
- ▶ Awards were given to recognize good efforts in the protection of water quality. Two awards are presented yearly, one for environmental compliance on construction sites and one for good housekeeping/pollution prevention efforts in NDOR maintenance facilities.

Measurable Goal 2.1 (d) - Amend standard language for Engineering Statements to reference erosion control plans for distribution at public hearings.

(Percent Complete = 60)

- ▶ Standard language is included in Engineering Statements to reference the fact that sediment and erosion control measures will be taken to minimize impacts on the surrounding environment and that exposed soil areas will be permanently seeded.
- ▶ Language will be modified to address new changes with the stormwater program such as the addition of Treatment BMPs.

Public Participation and Involvement Activities Scheduled for 2010

Measurable Goal 2.1 (a) - Continue to follow established public participation policies and procedures for NDOR projects.

- Continue to administer public participation policies and procedures for NDOR.
- Hold at least 3 Compliance Technical Advisory Group (CTAG) meetings to discuss compliance with the MS4 permit and implementation of the Stormwater Management Plan (SWMP).

Measurable Goal 2.1 (b)(c) - Engage public and track participation in environmental stewardship programs such as Adopt-A-Highway and Wetlands Bank Education.

- Administer and track participation in stormwater education programs.
- Maintain the Stormwater Webmaster contact link on the NDOR Website Stormwater Page to allow the public to report stormwater problems such as illicit discharges or construction stormwater problems.

Measurable Goal 2.1 (d) - Amend standard language for Engineering Statements to reference erosion control plans for distribution at public hearings.

- Continue to update language used in Engineering Statements to include the benefits and purpose of Erosion and Sediment Control BMPs included in project designs.

3.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

The Compliance Technical Advisory Group (CTAG) approved the final draft of the NDOR Illicit Discharge Detection and Elimination (IDDE) Plan. Included in that document are requirements for dry-weather outfall monitoring. Outfalls along NDOR freeways, within an MS4 boundary, will be monitored once every five years. In addition, outfalls categorized as high priority will be monitored on a yearly basis. This approach will allow NDOR to focus efforts on outfalls with the highest potential for illicit discharges such as those that discharge directly into a receiving stream.

In 2009 NDOR mapped approximately 95% of the outfalls within the Lincoln MS4 area. The remainder of the NDOR outfalls within the City of Lincoln will be mapped in 2010 and efforts will then be concentrated on the Omaha urbanized area.

As stated in previous reports, NDOR does not have highway segments designated as freeways in every MS4. Currently there are freeway segments within the MS4 boundaries of North Platte, Lexington and Kearney as well as the urbanized areas of Lincoln, Omaha and South Sioux City. In remaining MS4 communities the local jurisdiction will be responsible for incorporating highway outfalls into their local MS4 program. NDOR is communicating this by entering into a Memorandum of Understanding (MOU) with adjacent MS4s. The MOU outlines the responsible party for outfalls along state highways and requests a regular exchange of GIS data for outfall locations as they are mapped. NDOR has an active MOU with the City of Lincoln for the IDDE program and is currently in the process of obtaining MOUs with the Papillion Creek Watershed Partnership consisting of Omaha, Bellevue, Boys Town, Gretna, La Vista, Papillion, Ralston and Sarpy County as well as the Nebraska Stormwater Cooperative consisting of Grand Island, Columbus, Fremont, Hastings, Kearney, Lexington, Norfolk, North Platte and Scottsbluff.

The 2009 measurable goals for Illicit Discharge Detection and Elimination are summarized below.

Measurable Goal 3.1 (a) - Develop map showing the location of all outfalls and the names and location of all waters of the state that receive discharges from those outfalls.

(Percent Complete = 50)

- ▶ Outfall mapping has been completed for NDOR outfalls in North Platte, Kearney and Lexington.
- ▶ Outfall mapping was completed for 95% of NDOR outfalls within the Lincoln MS4.
- ▶ NDOR received GIS data from the City of Lincoln for mapped outfalls.
- ▶ Data collected in 2008 by a consultant was added to the NDOR outfall database. This included Kearney, North Platte and Lexington.
- ▶ The criterion for prioritizing outfall mapping areas is described in the IDDE Plan. Outfalls categorized as high priority will be monitored on a yearly basis beginning in 2012. Remaining outfalls will be monitored once every five years beginning in 2012.
- ▶ Roadside Stabilization Unit Staff trained the District Environmental Coordinator in District 3 to assist with mapping efforts around the South Sioux City Urbanized Area.

Measurable Goal 3.2 (a) - Develop specification to prohibit non-stormwater discharges to NDOR MS4.

(Percent Complete = 60)

- ▶ NDOR controls contributions of pollutants to the State Highway System using the following authority and enforcement structure:
 - Illicit Connections and Discharges are regulated by State Statute §39-1360, 1361, 1362, 81-2005(3), Encroachment Permits, Right-of-Way Permits, and Municipal Maintenance Agreements.
 - Illegal Dumping and Spills are regulated by State Statute §39-310, 311, 81-2005(3), 28-523, and Municipal Maintenance Agreements.
- ▶ The extent of the NDOR enforceable authority is described in the IDDE Plan.
- ▶ The IDDE plan includes letters that may be used to communicate violations and corrective actions to obtain compliance.
- ▶ In 2009, NDOR Operations finalized and implemented DRform 176 (Illicit Discharge Notification and Tracking). The District Incident Reporting Knowledgebase (DIRK) will incorporate links to this form under two categories. The categories include Environmental and Hazardous Spill Reporting. DIRK can be queried to obtain reports for Illicit Discharges along state highways.

Measurable Goal 3.2 (b) - Develop a process to coordinate with adjacent MS4 communities to remove illicit discharges that flow through an NDOR outfall, but are not the result of an NDOR activity.

(Percent Complete = 60)

- ▶ The NDOR IDDE plan provides information for NDOR to use to coordinate with adjacent MS4s regarding the removal of illicit discharges that flow through NDOR right-of-way.
- ▶ A Memorandum of Understanding (MOU) was developed to communicate the mapping responsibility along non-freeway portions of the State Highway System within MS4 communities. Currently Lincoln has signed this agreement and NDOR is in the process of entering into agreements with Papillion Creek Watershed Partnership MS4s (Omaha, Bellevue, Boys Town, Gretna, La Vista, Papillion, Ralston and Sarpy County) as well as the NE Stormwater Cooperative MS4s (Grand Island, Columbus, Fremont, Hastings, Kearney, Lexington, Norfolk, North Platte and Scottsbluff). NDOR has yet to meet with the Phase II communities of Beatrice, Douglas County, South Sioux City, Dakota County and Dakota City regarding the IDDE Program. Developing these partnerships will assist with addressing illicit discharges occurring on or flowing through NDOR property.
- ▶ NDOR communicates with Local Stormwater Coordinators within the MS4 communities to address any spills or illicit discharges. Contact is made to The Operations Highway Environmental Program Specialist (HEPS) upon discovery of any issues. As outlined in the IDDE plan and upon notification to Operations, the HEPS will coordinate clean-up efforts between the necessary parties.

Measurable Goal 3.3 (a) - Develop Illicit Discharge Detection and Elimination Plan.

(Percent Complete = 80)

- ▶ The IDDE Work Group held meetings throughout the year and the final NDOR IDDE Plan was approved by CTAG in 2009. There are some supporting field guidance documents that will need to be completed prior to the start of the next permit cycle.
- ▶ NDOR outfalls will be mapped and field screened during this first permit term ending in 2011. Beginning in 2012 outfalls will be monitored once every 5 years with high priority outfalls monitored yearly. The IDDE plan outlines how outfalls are categorized.
- ▶ Copies of the NDOR IDDE Plan were distributed to CTAG members.
- ▶ Applications for new connections to the MS4 are reviewed by the Roadside Stabilization Unit for illicit discharge potential. Appropriate recommendations and guidance is provided during the review.
- ▶ Enforcement actions are in place to remove identified illicit discharges, connections, dumping and spills within the MS4. The NDOR IDDE Plan outlines these procedures.
- ▶ The Final IDDE Plan was amended to the NDOR Work Plan and is available on the NDOR Stormwater Website.

Measurable Goal 3.4 (a) - Evaluate need to update and implement adequate NDOR internal policy, guidance, and manuals.

(Percent Complete = 60)

- ▶ Education provided by NDOR for the Illicit Discharge Program is described in Table 1.
- ▶ Quarterly Environmental Bulletin included information on spill kits for construction sites.
- ▶ The Final IDDE Plan was amended to the NDOR Work Plan and is available on the NDOR Stormwater Website.
- ▶ An IDDE presentation at the Annual Maintenance Conference described illicit discharges and NDOR's responsibility to identify and remove them.
- ▶ During the FRCP on-site trainings, the dangers and potential environmental impacts related to illicit discharges were reviewed with NDOR employees.

IDDE Inspections and Enforcement Actions

Table 2 Summary of Illicit Discharge Detection and Elimination Inspections and Enforcement Actions

Activity	Summary of Activity
Dry Weather Inspections	<ul style="list-style-type: none"> ▶ Outfall Mapping and Dry Weather Monitoring was completed for 95% of NDOR outfalls within the City of Lincoln. ▶ Field investigations resulted in 0 potential illicit discharges from conducting a physical characteristics evaluation at 170 newly mapped outfalls. ▶ No sampling was required to investigate potential illicit discharges.
Illicit Discharges Identified	<ul style="list-style-type: none"> ▶ 2 instances of spills or dumping were recorded within the MS4 ▶ 0 instances of illicit connections were recorded within the MS4 ▶ 0 instances of illegal discharges were recorded within the MS4
Illicit Discharge Enforcement Actions	<ul style="list-style-type: none"> ▶ 0 enforcement actions were required to eliminate illicit discharges.

IDDE Activities Scheduled for 2010

Measurable Goal 3.1 (a) - Develop map showing the location of all outfalls and the names and location of all waters of the state that receive discharges from those outfalls.

- The remainder of Lincoln, the Omaha Metro Area, and South Sioux City Metro Area will be evaluated and inspected between 2010 and 2012.
- As adjacent MS4s complete their own outfall mapping, NDOR will request geographically referenced outfall information.
- Train NDOR Staff in District 2 to assist with outfall mapping in Omaha Urbanized Area.

Measurable Goal 3.2 (a) - Develop specification to prohibit non-stormwater discharges to NDOR MS4.

- Adequate statutes, policy, guidance and permits are in place and communicated in the IDDE Plan. NDOR will continue to review guidance necessary to improve the program.

Measurable Goal 3.2 (b) - Develop a process to coordinate with adjacent MS4 communities to remove illicit discharges that flow through an NDOR outfall, but are not the result of an NDOR activity.

- Continue to establish MOUs with MS4 Communities through partnership meetings. These meetings are a great opportunity to discuss the program and how potential issues will be coordinated.

Measurable Goal 3.3 (a) - Develop Illicit Discharge Detection and Elimination Plan.

- Finalize supporting documents that are referenced in the NDOR IDDE Plan.
- Review approved IDDE plan for any needed updates.
- Provide training to NDOR District Permit Officers on environmental requirements that should be considered when authorizing connections or access to NDOR property.

Measurable Goal 3.4 (a) - Evaluate need to update and implement adequate NDOR internal policy, guidance, and manuals.

- Finalize supporting documents that are referenced in the NDOR IDDE Plan. This includes a field guidance document for NDOR District personnel who will be monitoring outfalls.
- Continue to train District Personnel to monitor outfalls and detect illicit discharges.
- Distribute educational materials regarding the IDDE program through training opportunities and environmental bulletins (newsletters).
- Present information about the IDDE Program at the Annual Maintenance Conference.

4.0 CONSTRUCTION SITE RUNOFF CONTROL

The NDOR Erosion and Sediment Control Inspector Course was offered seven times throughout the year and trained approximately 350 individuals. NDOR staff and contractors overseeing the installation and maintenance of erosion and sediment control measures on NDOR projects must now be certified as an NDOR Erosion and Sediment Control Inspector. In addition to the training program NDOR has also developed the Compliance Oversight Plan. This plan outlines how the Department will maintain quality assurance when inspecting and summarizing the project conditions for construction site environmental commitments. The process involves a coordination of efforts between the Headquarter Office and District Offices across the state to inspect specific projects at a determined frequency, typically on a monthly basis. Those reports are evaluated by key individuals who assess the need for additional measures and compliance inspections on the project.

In order to improve the efficiency and consistency of reporting, NDOR is implementing a new electronic database and inspection program. This web-based program allows inspectors to perform construction site compliance inspections on laptop and tablet computers and then upload those inspections directly to a headquarter module where reports can be viewed, printed and evaluated. This new tool has the capability of modernizing NDOR's construction site compliance inspection program and will be tested by District Environmental Coordinators, Roadside Stabilization Unit Staff and select Project Managers during 2010. Improvements will be made throughout the year and if the program meets NDOR's expectations, will be pushed out to additional users for bi-weekly inspections.

A total of 25 NDOR construction projects that disturbed an acre of soil or greater were active within the MS4 boundary during 2009. Table 3-1 is a current list of those projects. Each project was managed in a manner to comply with the General Construction Stormwater Permit issued by NDEQ. NDOR implemented an Environmental Commitment Deficiency Notification -special provision for projects let in May 2009 or later. This special provision imposes a monetary penalty of up to \$250/day for every corrective action not addressed within the 7-day window. A shut-down notice is issued on the 8th day after initial notification. Emergency action deficiencies (items that pose an immediate threat to the environment) require the contractor to address the issue within 24 hours or face a monetary penalty of up to \$500/day and project shut-down. In addition there is an incentive payment up to \$250 that a contractor may be paid when a corrective action is addressed within 48 hours of a rain event.

The 2009 measurable goals for Construction Site Runoff Controls are summarized below.

Table 3-1 NPDES Permitted Construction Projects within MS4 Boundary

District ¹	Project Number – Name	Discharge Authorization Number ²
District 1	<ul style="list-style-type: none"> ▶ 34-6(133) – Lincoln West ▶ 80-9(851) – 40th St. Bridge Lincoln ▶ 80-9(856) - I-180 - 56th Street, Lincoln ▶ 2-6(1027) – 148th St./N-2, Lincoln ▶ 77-2(1060) – Lincoln South ▶ 2-6(1030) - US77 – 9th Street, Lincoln ▶ 34-6(138) – US34/148th St. E of Lincoln ▶ 77-2(1072) – Fremont South 	<ul style="list-style-type: none"> ▶ NER110320 ▶ NER111679 ▶ NER110123 ▶ NER111496 ▶ NER111335 ▶ NER111332 ▶ NER111485 ▶ NER111562
District 2	<ul style="list-style-type: none"> ▶ 480-9(778) – I-480 WB/US75 SB Interchange ▶ 275-6(1029) – Fremont E Bypass ▶ 275-7(184) - S. Omaha Veterans Bridge (3 Permits) ▶ 80-9(889) – Missouri River – 13th St, Omaha ▶ 80-9(892) – Expand I-80 ▶ 080-1(318)-11– I-80 over Missouri River 	<ul style="list-style-type: none"> ▶ NER111563 ▶ NER110319 ▶ NER110314 ▶ NER111484 ▶ NER110128 ▶ NER110002
District 3	<ul style="list-style-type: none"> ▶ 30-5(125) - Columbus Viaduct ▶ 35-3(107) – In Norfolk ▶ 275-5(137) – Norfolk West ▶ 35-3(105) – Norfolk Southeast ▶ 81-3(1035) – Monroe Ave, Norfolk 	<ul style="list-style-type: none"> ▶ NER111117 ▶ NER111489 ▶ NER110146 ▶ NER111490 ▶ NER111355
District 4	<ul style="list-style-type: none"> ▶ 30-4(148) – In Kearney ▶ 6-4(125) – Hastings West ▶ 34-4(131) – Grand Island South ▶ 34-4(132) – 7th to 9th St., Hastings 	<ul style="list-style-type: none"> ▶ NER111430 ▶ NER111362 ▶ NER110152 ▶ NER110141
District 5	<ul style="list-style-type: none"> ▶ 92-1(122) – Scottsbluff NW Viaduct 	<ul style="list-style-type: none"> ▶ NER111561
District 6	<ul style="list-style-type: none"> ▶ 83-2(1029) – State Farm Rd N., North Platte 	<ul style="list-style-type: none"> ▶ NER111274

Measurable Goal 4.1 (a) - Update existing Specifications and manuals to include erosion and sediment control sanctions to ensure compliance.

(Percent Complete = 60)

- ▶ NDOR implemented an Environmental Commitment Deficiency Notification (Special Provision) for projects let in May 2009 or later. This provision allows NDOR to assess a monetary penalty of up to \$250/day for every corrective action not addressed within the 7-day window. A shut-down notice is issued on the 8th day after initial notification. Emergency action deficiencies (items that pose an immediate threat to the environment) require the contractor to address the issue within 24 hours or face a monetary penalty of up to \$500/day and project shut-down. In addition there is an incentive payment up to \$250 that a contractor may be paid when a corrective action is addressed within 48 hours of a rain event.
- ▶ Updates were made to erosion and sediment control specifications in 2009 for inclusion in the new NDOR specification book which was on track to be printed in 2010. This has been delayed due to additional requirements placed on the Department for Local Projects and it is unclear when the new printing will occur at this time.

Measurable Goal 4.2 (a) - Require construction site operators to implement erosion and sediment control practices.

(Percent Complete = 60)

- ▶ NDOR's Stormwater Website provides users, interested in erosion control training, with a link to the Nebraska LTAP erosion control website. This site provides information on the NDOR Inspector Certification Program and provides the necessary registration and contact information.
- ▶ NDOR sponsored two course offerings as part of the Erosion and Sediment Control Training and Certification Program.
 - One session of the Erosion and Sediment Control: Design Basics course was offered with approximately 25 individuals attending.
 - Seven sessions of the Erosion and Sediment Control: Inspection course was offered and 350 individuals attended.
- ▶ NDOR distributed copies of the Construction BMP pocket guide to Erosion and Sediment Control course participants at training events. The guide is also available at any time upon request.
- ▶ NDOR developed the Compliance Oversight Plan for quality assurance on NDOR construction projects. Essentially this provides a structure on how District Environmental Coordinators will assist in monitoring construction projects within their District. The plan also outlines how projects can be assessed a score throughout the year which changes the level of oversight needed.
- ▶ Erosion and sediment control specifications were updated in 2008-2009 for inclusion in the new NDOR Specification Book. Printing of the new books has been delayed due to increased work-loads within the Department. At this time the changes to specifications can be implemented through special provisions until the new books are printed.

Measurable Goal 4.3 (a) - Develop procedures for site plan review to include consideration of water quality impacts.

(Percent Complete = 60)

- ▶ NDOR is implementing the Temporary ESC Plan template and checklist of requirements that each Temporary Erosion Control Plan should address before being submitted to NDOR for approval.
- ▶ NDOR created a new Work Breakdown Analysis Flowchart which includes review points for stormwater controls and other environmental considerations throughout project development.
- ▶ Environmental Coordination Meetings are held every two weeks to provide a direct line of communication between project designers and environmental staff.

Measurable Goal 4.4 (a) - Develop and implement site inspection process.

(Percent Complete = 60)

- ▶ NDOR implemented the Compliance Oversight Plan as discussed previously.
- ▶ The Compliance Oversight Inspection Form was utilized in 2009 as an internal oversight tool (Compliance Assistance Site Visits). These inspections were typically completed on a monthly basis by consultants, NDOR District Environmental Coordinators, Construction Division Staff and Roadside Stabilization Unit Staff. The findings are distributed to key employees throughout the Construction and Environmental sections of NDOR to allow for additional review of environmental compliance on projects. Approximately 44 environmental compliance inspections were completed in 2009 on projects within an MS4 boundary.
- ▶ Project managers are required to complete and submit the bi-weekly stormwater site inspections. Copies are maintained in the project SWPPP and copies are also emailed to headquarters to be loaded onto Falcon (NDOR's Document Management System).
- ▶ FHWA requires NDOR to utilize consultants for environmental compliance inspections (bi-weekly) on interstate projects. In addition, consultants also performed environmental compliance inspections on a number of other projects across the state.
- ▶ A new site inspection program known as the Environmental Compliance and Oversight Database (ECOD) was developed and customized for NDOR. This web-based program allows inspectors to perform construction site compliance inspections on laptop and tablet computers and then upload those inspections directly to a headquarter module where reports can be viewed, printed and evaluated. This software will be utilized throughout 2010 by District Environmental Coordinators and Roadside Stabilization staff for environmental compliance oversight inspections.

Summary of Construction Site Runoff Control Inspections and Enforcement Actions

NDOR follows the inspection frequency requirements listed in the Nebraska Construction Stormwater General Permit. After final stabilization measures are in place and the Notice of Termination (NOT) has been submitted to NDEQ, inspection frequency is reduced to monthly during the 180 day period.

Table 3-2 Summary of Construction Site Runoff Control Inspections and Enforcement Actions

Activity	Summary of Activity	
Construction Site Inspections	<ul style="list-style-type: none"> ▶ Contractor 	<ul style="list-style-type: none"> ▶ NDOR contracted the services of four on-call Consultants to provide compliance inspections for high profile projects under construction. ▶ The Falcon recordkeeping system indicated that in 2009, on-call Consultants completed 45 NPDES Construction Stormwater Permit compliance inspections for construction projects that occurred within the MS4 boundary.
	<ul style="list-style-type: none"> ▶ NDOR 	<p>During Construction</p> <ul style="list-style-type: none"> ▶ NDOR Inspectors conduct inspections on a biweekly basis and after every 0.5" of rain until the Contractor has completed their work. ▶ The Falcon recordkeeping system indicated that in 2009, NDOR Inspectors, Project Managers and/or the Operations Division completed 214 NPDES Construction Stormwater Permit compliance inspections for construction projects that occurred within the MS4 boundary. ▶ Approximately 15 non-regulatory compliance assistance site visits with Project Managers were performed by the Roadside Stabilization Unit in conjunction with Construction Division.
Erosion and Sediment Control Enforcement Actions	<ul style="list-style-type: none"> ▶ Permitting Authority 	<ul style="list-style-type: none"> ▶ 0 warnings or enforcements were issued by EPA or NDEQ.

Construction Site Runoff Control Activities Scheduled for 2010

Measurable Goal 4.1 (a) - Update existing Specifications and manuals to include erosion and sediment control sanctions to ensure compliance.

- Implement the Disincentive Assessment when corrective actions are not completed as required in the NPDES Construction Stormwater General Permit.
- Review and update specifications as needed.

Measurable Goal 4.2 (a) - Require construction site operators to implement erosion and sediment control practices.

- Continue to offer the Erosion and Sediment Control Training and Certification Program as needed throughout the year.
- Distribute copies of the Construction BMP pocket guide to Erosion and Sediment Control course participants and upon request.
- Implement current SWPPP on stormwater permitted projects.

Measurable Goal 4.3 (a) - Develop procedures for site plan review to include consideration of water quality impacts.

- Implement the Temporary ESC Plan template and checklist of requirements that each Plan must have considered before being submitted to NDOR engineer for approval.
- Coordinate a meeting with NDOR District Permit Officers.

Measurable Goal 4.4 (a) - Develop and implement site inspection process.

- Require project managers to complete and submit the site inspection and corrective actions report.
- Record the number and the findings of Compliance Assistance Site Visits.
- Utilize on-call consultants for project inspections when needed.
- Implement Environmental Compliance Oversight Database (ECOD) software for stormwater inspections.

5.0 POST-CONSTRUCTION SITE RUNOFF CONTROL

NDOR's main goal for the Post Construction Program in 2009 was to develop *Chapter III - Post Construction Stormwater Control* for the Drainage Design and Erosion Control Manual. Due to the complex nature of this program, NDOR has had to modify the implementation schedule to allow for more time to complete this new chapter and to get additional pieces in place as discussed below. The current plan is to have Chapter III near completion by the end of this first permit cycle (2011) so that implementation can begin in 2012. NDOR also understands that while the program will take to develop it may be beneficial to implement Treatment BMPs on select projects prior to completion of Chapter III. This could provide useful information regarding site plan review, design and construction of Treatment BMPs.

Chapter III will provide NDOR designers with the necessary tools to evaluate projects and incorporate Treatment BMPs into project designs. The CTAG Post Construction Work Group met on a bi-weekly basis throughout the year to work on the document. In addition to the regular meetings, the Work Group collected information from other State DOTs, Universities and Regulatory Agencies to provide guidance on which Treatment BMPs are feasible and the most beneficial for linear projects. NDOR staff also attended post construction workshops/seminars, participated in Environmental Protection Agency (EPA) webcasts and is currently working with the University of Nebraska to research specific Treatment BMPs. At the end of 2009 a draft was completed and discussed at the December CTAG meeting. Copies of the draft were distributed to everyone involved with the program and comments were requested by the end of January 2010. Currently meetings have been scheduled with several NDOR Divisions to discuss their specific comments on the draft and to continue to move the program forward.

The 2009 measurable goals for Post-Construction Site Runoff Controls are summarized below.

Measurable Goal 5.1 (a) - Develop procedures for site plan review to include consideration of structural and/or non-structural BMPs.

(Percent Complete = 60)

- ▶ NDOR drafted a new chapter for the NDOR Drainage Design and Erosion Control Manual. This chapter will communicate the structural and non-structural BMP options for projects located within a MS4 Community. Currently this draft is under review with plans to complete the document in 2010-2011.
- ▶ The Roadside Stabilization Unit (RSU) reviews projects for erosion and sediment control compliance at several points throughout project design. The initial RSU review is conducted during the Scoping Phase. When the Post Construction Program is implemented this will be the initial project evaluation for Treatment BMP consideration. RSU will issue a memo to the Project Designer outlining any specific water quality requirements that apply to the project.
- ▶ NDOR Roadway Design Division reviews or designs projects under the guidance of the Design Process Outline (DPO), a part of the Roadway Design Manual. The DPO summarizes the major activities and tasks to be completed during the course of a project's design such as erosion control and floodplain determinations. The DPO is updated on a regular basis and updates have been suggested as part of the expanded Post Construction Program to include activities and tasks for the consideration of Treatment BMPs in project design.

- ▶ NDOR Roadway Design created an Environmental Coordination Meeting Process that addresses environmental concerns and impacts associated with highway projects. This Process is an internal review of NDOR highway projects to identify environmental concerns and potential impacts, to discuss the related design and constructability issues, and to act on any necessary changes and permitting issues. These meetings are held on a bi-weekly basis and stormwater issues are already a major component of the review. As the Post Construction Program evolves these meetings will be utilized to communicate the need for Treatment BMPs on appropriate projects.

Measurable Goal 5.1 (b) - Establish cooperative effort to coordinate both planning and design of structural and non-structural BMPs.

(Percent Complete = 60)

- ▶ **Ongoing:** NDOR continues to meet with the Nebraska Stormwater Cooperative to coordinate the development of the MS4 programs. This group consists of Grand Island, Columbus, Fremont, Hastings, Kearney, Lexington, Norfolk, North Platte and Scottsbluff MS4 Communities.
- ▶ In addition NDOR has also been attending the Papillion Creek Watershed Partnership Meetings. Plans are in place to partner with the group for a Post Construction Workshop in the fall of 2010.
- ▶ **Ongoing:** The level of design overlap for structural and non-structural BMPs depends on the type of programmed project being considered. NDOR will communicate with adjacent MS4s as needed to ensure the appropriate design requirements are put in place. The typical programmed project expectations include:
 - “New and Reconstruction”, “Resurfacing, Restoration and Rehabilitation (3R)”, “Maintenance and Pavement Extension Plan Projects” and “Safety Improvement Projects” are most generally controlled by NDOR and will meet the treatments standards included in Chapter III of the Drainage Design and Erosion Control Manual when the specific requirements are established.
 - “Enhancement” and “Off-System” urban projects are designed, constructed, and maintained by the municipality who is sponsoring the project. Treatment BMPs included in project plans, specifications, and permits will be compatible with the local MS4 Permit compliance program. For example, off-system urban projects funded in the City of Omaha must comply with the standards established in the current Omaha Stormwater Post Construction ordinance and Design Manual.

Measurable Goal 5.2 (a) - Update existing Specifications, manuals, and Standard Plans to address post-construction storm water runoff from new development and redevelopment projects.

(Percent Complete = 60)

- ▶ NDOR drafted a new chapter for the NDOR Drainage Design and Erosion Control Manual dedicated to the Post Construction Program.
- ▶ The NDOR Environmental Procedures Manual includes information about the Post Construction Program design requirements and decision points.
- ▶ The Standard Specifications for Highway Construction will be modified to include language that defines and controls the construction of Treatment BMPs when they are defined in Chapter III.
- ▶ The Construction Manual will be updated with information about the administration, construction, and inspection of Post Construction treatment BMPs when they are defined in Chapter III.

- ▶ The Maintenance Manual and, to a lesser degree, the Pavement Maintenance Manual will be updated with new information regarding the timing and equipment necessary for maintaining Post Construction treatment BMPs that are included in Chapter III. In addition to Specifications, amendments will also be required for Standard and Special Plans, and Standard Details for treatment BMPs that will be considered as part of the site plan review process.

Measurable Goal 5.3 (a) - Communicate specific maintenance requirements for the long-term operation and maintenance of stormwater BMPs.

(Percent Complete = 60)

- ▶ Treatment BMPs that will be utilized in the Post Construction Program will require a permanent maintenance plan. Coordination with the Operations Division and local MS4 Communities across the state will provide the necessary guidance in selecting BMPs that are compatible with the maintaining authority. Maintenance concerns will be a high priority in 2010 as Chapter III is refined and Treatment BMPs are discussed in more detail.
- ▶ NDOR stormwater staff have attended several Post Construction seminars that have discussed maintenance requirements for specific BMPs. This education will help guide the selection of BMPs.
- ▶ NDOR is working with the University of Nebraska to research particular Treatment BMPs. The goals of the research are to provide additional information on maintenance requirements and water quality benefits for selected BMPs.

Summary of Post-Construction Site Runoff Control Inspections and Enforcement Actions

Table 4 Summary of Post-Construction Site Runoff Control Inspections and Enforcement Actions

Activity	Summary of Activity
BMP Design Review	▶ Currently, projects are reviewed for stormwater velocity control BMPs and soil stabilization BMPs.
BMP Field Implementation Inspections	▶ Construction projects are inspected by a NDOR Project Manager and/or Inspector familiar with the design standards and construction methods for current water quality BMPs. Stormwater velocity control and soil stabilization BMPs are checked against project plans and specifications in the field.
Enforcement Actions	▶ No enforcement actions were taken for water quality BMP design, construction, or maintenance.

Post Construction Site Runoff Control Activities Scheduled for 2010

Measurable Goal 5.1 (a) Develop procedures for site plan review to include consideration of structural and/or non-structural BMPs.

- Update Design Process Outline (DPO) to include Post Construction Treatment BMP activities and tasks (2010 – 2011).
- Update Environmental Coordination Meetings to include consideration for Post Construction Stormwater commitments (2010 – 2011).

Measurable Goal 5.1 (b) Establish cooperative effort to coordinate both planning and design of structural and non-structural BMPs.

- NDOR will continue to coordinate and partner with local MS4s to develop a program that is not only work for NDOR but that will also be compatible with the local MS4 program. NDOR has utilized the City of Omaha Post Construction Stormwater Ordinance as a guide throughout the development of Chapter III.
- NDOR is planning to Partner with the City of Omaha to administer a Post Construction Workshop in the fall of 2010.
- Continue to partner with UNL for research projects studying Treatment BMPs along highway systems.

Measurable Goal 5.2 (a) Update existing Specifications, manuals, and Standard Plans to address post-construction storm water runoff from new development and redevelopment projects.

- Complete Chapter III (Post Construction Stormwater) to include in the Drainage Design and Erosion Control Manual (2010 – 2011).
- Update the Construction Manual to address Treatment BMPs (2010 - 2011).
- Develop Standard Plans for Treatment BMPs (2010 – 2011)
- Develop Specifications for Treatment BMPs (2010 – 2011).
- Discuss a transition plan for incorporating treatment BMPs into NDOR projects.
- Begin developing Post Construction Training Course for Designers and Engineers (2010-2011).

Measurable Goal 5.3 (a) Communicate specific maintenance requirements for the long-term operation and maintenance of stormwater BMPs.

- Research maintenance requirements for Treatment BMPs applicable to NDOR.
- Coordinate meetings with Operation Division and local MS4s to discuss BMP selection, maintenance requirements and costs.
- Review maintenance activities and/or requirements of existing stormwater treatment BMPs and develop/revise maintenance scheduling and tracking for treatment BMPs.

6.0 POLLUTION PREVENTION AND GOOD HOUSEKEEPING

Many important activities and documents maintained by NDOR already support the goals of the Good Housekeeping Program. Certain efforts promote good safety, product management, and health of employees which, in many cases, have a secondary benefit of protecting water quality. Additional guidance is needed to focus specifically on water quality to meet the requirements of the MS4 permit.

The Facility Runoff Control Plan Program (FRCP) development phase has been successfully implemented in MS4 communities where NDOR has maintenance facilities. NDOR implemented the associated FRCPs in accordance with the development document completed in December of 2008. The program document details the purpose and objectives for the FRCP program and provides templates for implementing and auditing the program at NDOR facilities. In 2009, 10 site specific FRCPs were developed and/or finalized. In District 2, all NDOR operations facilities are participating in the program. Three facilities involved are outside of the MS4 boundary. One District 2 facility (Melia Hill) is planned to complete the implementation phase in early 2010. Operations Headquarters at "The Hill" finalized the FRCP draft and inspection process in 2009. In 2009, audits were conducted across Districts 1, 3 and 5 for FRCPs implemented during 2008. A FRCP training CD was videotaped and edited in 2009. The final distribution will occur in 2010, after final edits.

NDOR Facilities implementing in non-regulated MS4 communities for 2009 include: Blair, Plattsmouth, Melia Hill and David City. Ongoing facility participation at the NDOR Gering Maintenance Facility is also in a non-regulated MS4 community. Currently NDOR has 25 facilities participating in the FRCP program, with inspection procedures implemented at 24. One facility is pending.

The 2009 measurable goals for Good Housekeeping and Pollution Prevention Program are summarized below.

Measurable Goal 6.1(a) - Perform internal evaluation of NDOR maintenance operations.

(Percent complete = 90)

- ▶ Facility Runoff Control Plan audits were conducted at 10 facilities in Districts 1, 3, and 5.
- ▶ In March, April May, June and July site specific FRCPs were finalized for 8 facilities in Districts 1 and 2
- ▶ In February of 2009, Operations Division headquarters at "The Hill" FRCP was finalized.

Measurable Goal 6.1(b) - Develop Operation and Maintenance Standard Operating Procedures for reducing pollutants in storm water runoff from Agency operations.

(Percent complete = 90)

- ▶ The FRCP Training CD to be finalized in 2010 encompasses winter operations, chemicals use and storage. Calibration of equipment, appropriate training and certification is required of NDOR employees.
- ▶ Ongoing implementation and oversight of the FRCP program is a Standard Operating Procedure at Maintenance facilities within the Nebraska MS4 boundaries.

- ▶ Under the SPCC program, site visits at 66 NDOR maintenance facilities were made in 2009. Training was provided in areas applicable to both the SPCC and MS4 programs. Good housekeeping and pollution prevention are components of both. Training focus areas considered to be overlapping for both programs were spill response and prevention, proper oil handling, diked area drainage, oil/water separator assessments, monthly and annual tank inspections, labeling, and waste handling and disposal.
- ▶ In conjunction with the SPCC requirements, refillable spill kits were placed in NDOR Warehouse stock to ease ordering procedures of oil absorbent items. Approximately 60 spill kits were distributed state-wide to the NDOR Maintenance facilities.

Measurable Goal 6.1(c) - Establish process to track permanent BMPs.

(Percent complete = 60%)

- ▶ NDOR maintains information in the Administrative File regarding how the Enterprise Asset Management System (EAMS) could be used for mapping water quality BMPs and tracking maintenance requirements and activities. This system will not be brought on-line for this type of tracking until other phases of EAMS are completed.
- ▶ NDOR will utilize existing MS4 databases to track treatment BMPs until other options such as EAMS become available.

Measurable Goal 6.1(d) - Ensure existing maintenance agreements between NDOR and MS4 communities address the goal of reducing pollutant runoff from municipal operations.

(Percent complete = 60%)

- ▶ NDOR has determined that the Municipal Maintenance Agreement (MMA) is not the appropriate location to include language concerning compliance with MS4 Permit requirements for Good Housekeeping/Pollution Prevention. Instead NDOR developed a Memorandum of Understanding (MOU) to document a partnership with the adjacent MS4. The MOU outlines the responsible party for outfalls along state highways and requests a regular exchange of GIS data for outfall locations as they are mapped. NDOR has an active MOU with the City of Lincoln for the IDDE program and is working on MOUs ?

6.1(e) Develop Quick Reference Guides for maintenance employees regarding storm water responsibilities.

(Percent complete = 60%)

- ▶ Individual FRCPs were issued to 10 facilities in 2009. Each FRCP is a reference guide for maintenance facility staff to educate themselves about facility Good Housekeeping/Pollution Prevention practices.
- ▶ A template FRCP was developed that may be used by any facility in the State. Information in the template was generated from the information in the individual FRCPs to maintain consistent BMP recommendations at participating facilities. No facility outside the MS4 is required to implement an FRCP. The template is available for any facility that desires to improve their operations and good housekeeping practices.
- ▶ NDOR continued to provide FRCP inspection training in 2009. Approximately 135 individuals received the training offered at each of the 10 maintenance facilities. Information that is provided during this training has been summarized in the FRCP Program Development Document.
- ▶ Operations Headquarters FRCP documents and inspection process was finalized in 2009.
- ▶ Basic Stormwater Awareness education and FRCP inspector training was provided at maintenance facilities in District 2.
- ▶ An FRCP training video was developed in 2009. Distribution to Maintenance Facilities across the state will occur in 2010 after final edits.
- ▶ An overall Environmental Chapter was added to the Maintenance Manual in 2009. This chapter encompasses current environmental programs, regulations and required documentation.

Summary of Pollution Prevention and Good Housekeeping Inspections and Enforcement Actions

Table 5 Summary of Pollution Prevention and Good Housekeeping Inspections and Enforcement Actions

Activity	Summary of Activity
Facility Runoff Control Plan Site Inspections	<ul style="list-style-type: none"> ▶ Qualified individuals from each facility conduct monthly site-evaluations using the FRCP inspection checklist and corrective action form. In 2009, 236 self-evaluations with corrective actions were completed to evaluate site conditions and document efforts made to reduce the risk of stormwater pollution. ▶ FRCP Audits were conducted in Districts 1, 3, and 5 for 10 facilities in 2009. The Auditors reviewed inspection records, provided reinforcement and guidance for stormwater protection, and identified modifications that were made to each facility's FRCP document. The ratings that were issued for the audit events were as follows: 2 Outstanding, 7 Satisfactory, 1 Needs Improvement.
PP/GH Enforcement Actions	<ul style="list-style-type: none"> ▶ One facility required additional training and enforcement of the FRCP program from leadership in District 1. One other facility was retrained at the time of the audit to improve good housekeeping and pollution prevention measures in District 3.

Pollution Prevention and Good Housekeeping Activities Scheduled for 2010

Measurable Goal 6.1 (a) - Perform internal evaluation of NDOR maintenance operations.

- Coordinate with any additional non-regulated maintenance facilities to voluntarily implement the FRCP (upon request).
- Conduct FRCP Audits of MS4 facilities in District 2 and Operation Headquarters.

Measurable Goal 6.1 (b) - Develop Operation and Maintenance Standard Operating Procedures for reducing pollutants in storm water runoff from Agency operations.

- Review and Evaluate effectiveness of FRCP program as needed.
- Update Maintenance Manual as Chapter 3 (Post Construction) of the Drainage Design and Erosion Control Manual is developed and finalized.

Measurable Goal 6.1 (c) - Establish process to track permanent BMPs.

- The Enterprise Asset Management System is still under consideration for tracking permanent BMPs, Ongoing discussions will occur in 2010-2011 to determine EAMS feasibility.

Measurable Goal 6.1 (d) - Ensure existing maintenance agreements between NDOR and MS4 communities address the goal of reducing pollutant runoff from municipal operations.

- Continue to collaborate with Papillion Creek Watershed Partnership, Nebraska Stormwater Cooperative, and local MS4 stormwater coordinators.
- Implement MOUs with remaining MS4 communities (2010-1011).

Measurable Goal 6.1 (e) - Reference Guides for maintenance employees regarding storm water responsibilities.

- Complete final revisions and distribute the FRCP training CD to NDOR maintenance facilities.
- Continue to provide basic stormwater awareness education during the FRCP program audits.
- Utilize newly developed training program for New NDOR Supervisors/Superintendents to communicate storm water requirements and responsibilities under the MS4 permit.

7.0 Additional Requirements

This Section of the Annual Report summarizes NDOR's efforts to comply with additional MS4 Permit requirements that are not specifically associated with the six Minimum Control Measures.

7.1 Evaluation of Compliance and the Appropriateness of Identified BMPs

Part III.C of the MS4 Permit requires NDOR to evaluate SWMP compliance and the appropriateness of identified BMPs.

- ▶ NDOR is in compliance with conditions and requirements of the MS4 Permit.
- ▶ NDOR is on track or ahead of schedule for accomplishing year three MCM milestones listed in the SWMP. Modifications to MCMs are proposed in Section 7.2 to improve the appropriateness of identified BMPs
- ▶ NDOR is on track with accomplishing the Desired Outcomes for each Minimum Control Measure BMP listed in the SWMP Evaluation and Assessment Plan.
 - MCM 6.1(d): Desired Outcome 1 will be revised to read "Either Municipal Maintenance Agreements address the goal of reducing the risk of stormwater pollution within the MS4 coverage areas or NDOR implements an alternative partnership with adjacent MS4s to utilize Good Housekeeping Practices when maintaining portions of the state highway system located within the MS4 coverage area."

7.2 Proposed Changes to SWMP

Either the Department or the Permittee may propose amendments that are consistent with the requirements in Part III of the Permit for the SWMP or evaluation program at any time. Proposed amendments shall not be implemented without agreement from both the Department and Permittee.

- Correction to 2008 Annual Report: The revision to MCM 3.2(b) - Should have been applied to MCM 3.3(a)
- MCM 1.1(c): Revise year three, four and five annual milestones to read "If feasible, report annually on the number installed."

7.3 Improvements or Degradation in Receiving Waters

- ▶ NDOR is aware that the 2008 Integrated Report was published by NDEQ in 2008. NDOR is not aware of any improvements or degradations to receiving water quality that are currently caused by stormwater runoff from highways or maintenance facilities.

7.4 Compliance Assistance from other Entities

- ▶ NDOR has formed a partnership with the Local Technical Assistance Program (LTAP) of the University of Nebraska and the Nebraska Stormwater Cooperative.
- ▶ NDOR enforces State Statute Section 39-1339, 39-1372, and 39-2105. Under this authority, NDOR will require Adjacent MS4s to implement elements of the local SWMP along portions of the State Highway System that are within their MS4 boundary.

7.5 Data Collection and Analysis

- ▶ University of Nebraska
 - Data collection continued on NDOR's compost research plots. Vegetation growth and soil movement were measured on plots that received treatments involving compost, straw mulch, and erosion control blanket. An additional set of plots was installed in the Sandhills in 2009, at NDOR's request to expand the study. Plots are also monitored in the Lincoln area (2 locations) and near Broken Bow. Data collection for the "Adapting Roadside Seed Mixtures" project concluded in 2009. This project evaluates seeding segments statewide to examine seeded species with the species composition of standing vegetation on roadsides seeded 10-15 years ago. The goal is to examine survivorship of seeded species in regions of the state that vary in climatic and physical conditions. This project is the basis for a UNL student's masters degree thesis. The first of 2 sets of experimental plots for a fertilizer study was installed near Ashland in 2009. The study will help NDOR to determine appropriate soil fertility practices for its current seed mixtures.
 - DOR requested a research proposal from UNL to study the Stormwater Pollution Treatment BMP Discharge Structures. The research is to be conducted between 2010 and 2012.
- ▶ Texas Transportation Institute
 - NDOR contributes \$10,000 annually to TTI's Hydraulics, Erosion and Sediment Control Laboratory.
 - Facility tests rolled erosion control products for physical properties and to ensure products meet performance criteria.
 - Crimped straw erosion control methods are tested to compare effectiveness in relation to the rolled erosion control products.
 - NDOR utilized the data collected to determine which products are best suited for use on NDOR projects.

7.6 Annual Budget and Expenditures

	2009 Budgeted	2009 Expended	2010 Budgeted
Education and Involvement	NDOR Staff: \$5,000 MS4 Consultant: \$5,160	NDOR Staff: \$4,945 MS4 Consultant: \$5,160	NDOR Staff: \$5,000 MS4 Consultant: \$0
Illicit Discharge	NDOR Staff: \$15,000 MS4 Consultant: \$0	NDOR Staff: \$15,145 MS4 Consultant: \$0	NDOR Staff: \$20,000 MS4 Consultant: \$0
Construction Stormwater	NDOR Staff: \$64,000 MS4 Consultant: \$28,380 On-Call Consultants: \$100,000 Research: \$10,000 - TTI Research: *\$215,329 - Erosion Control Test Plots	NDOR Staff: \$64,270 MS4 Consultant: \$24,080 On-Call Consultants: \$100,000 Research: \$10,000 -TTI Research: *\$90,801 – Erosion Control Test Plots	NDOR Staff: \$58,000 MS4 Consultant: \$0 On-Call Consultants: \$100,000 Research: *On Going
Post-construction Stormwater	NDOR Staff: \$19,000 MS4 Consultant: \$1,720	NDOR Staff: \$19,200 MS4 Consultant: \$1,720 Research: *\$87,000	NDOR Staff: \$22,000 MS4 Consultant: \$0 Research: \$On -Going
Good Housekeeping	NDOR Staff: \$9,000 MS4 Consultant: \$36,120	NDOR Staff: \$9,245 MS4 Consultant: \$36,120	NDOR Staff: \$9,500 MS4 Consultant: \$0
Program Management	NDOR Staff: \$5,000 MS4 Consultant: \$5,160	NDOR Staff: \$4,945 MS4 Consultant: \$5,160	NDOR Staff: \$6,200 MS4 Consultant: \$0
Regulatory Compliance Support	MS4 Consultant: \$9,460	MS4 Consultant: \$9,460	MS4 Consultant: \$0
Total MS4 Program Cost	\$528,329	\$487,251	\$220,700

*Expenditure represents a multi-year project.