



**Municipal Separate Storm Sewer System (MS4)  
Program Report**

**January 1, 2014 – December 31, 2015**

**NDEQ Permit No: NE0134015**

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## Executive Summary of Program Activity

The NDOR 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. Compliance activities are summarized and recorded in routine reports to the Nebraska Department of Environmental Quality (NDEQ). This report documents MS4 Permit compliance efforts made during January 1, 2014 through December 31, 2015.

NDOR has completed the second and third year of the Stormwater Management Program for the second MS4 Permit. The following highlights some of the major accomplishments made in each of the program areas during this period:

### Education/Outreach and Public Involvement Program

- ✓ 920 people attended erosion control training classes in 2014-2015.
- ✓ NDOR's Live Erosion & Sediment Control Inspector Training & Certification Program underwent a substantial update of course content to more effectively address BMP selection, installation and maintenance.
- ✓ NDOR's Erosion & Sediment Control Inspector *ONLINE* Interim Certification & Recertification Courses were launched in January of 2014. Registration for and completion of on-line courses will be available at <http://ne-ltap.unl.edu/erosion-control>
- ✓ NDOR redesigned the entire Environmental Section of its website, providing a better, streamlined user experience, and faster retrieval and dissemination of program information and resources
- ✓ Stormwater Treatment Design classes were provided 3 times throughout 2014-2015 with approximately 90 people attending.

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### Illicit Discharge Detection and Elimination Program

- ✓ Dry weather monitoring was completed for all “High Priority Outfalls” according to the IDDE Plan.
- ✓ Updates to IDDE plan and attachment documents occurred throughout 2014-2015 and will be finalized in 2016.

### Construction Stormwater Program

- ✓ NDOR has continued to make improvements to software program, ECODatabase, to identify, document and track project environmental commitments. ECODatabase is a web-based administrative program with a piece of software that is downloaded to complete project inspections and any related corrective actions. The software continues to become an important part of NDOR’s performance based transportation efforts.
- ✓ NDOR as an Agency has established 8 Strategic Goals to address the Mission of the Department of Roads. One of the Goals was determined to be “Environmental Stewardship.” This specific goal is measured by documenting and tracking completion of environmental commitments on NDOR projects. The ECODatabase system is being used to complete the documentation and tracking. NDOR has established a performance measure of 100% completion of environmental commitments, 100% completion of anticipated inspections, and 100% completion of identified corrective actions on NDOR projects.
- ✓ NDOR utilizes a three-tiered inspection approach for documenting inspections in ECODatabase. The first tier consists of project level inspections (Routine Environmental Inspections) that are conducted at least once every 14 days. These inspections allow NDOR to satisfy the NPDES Construction Stormwater Permit requirements for content and frequency of site inspections. The second tier of inspections (Environmental Compliance Oversight Inspections) is conducted by District Environmental Coordinators or third party consultants, on a monthly or less frequent basis. Finally, the third tier inspections are the Environmental Compliance Audits that are conducted by Headquarters Staff. The second and third tier of inspections are used by NDOR to improve the effectiveness of routine site inspections and provide compliance assistance where needed to satisfy the NPDES MS4 permit requirements.
- ✓ NDOR has introduced the B3 Specification. This new mandatory Environmental Special Provision is included in all projects, rewarding contractors for responding to corrective actions in a timely manner after rain events and penalizing contractors for not addressing corrective actions within the assigned due dates.

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### Post Construction Stormwater Program

- ✓ NDOR conducted ongoing evaluation of design guidance and implementation policy by the Post Construction Stormwater Workgroup.
- ✓ Following the approval of Drainage Design and Erosion Control Manual Chapter 3, NDOR moved to create and implement Standard plans and special detail sheets with quantity tables. Naming conventions were formalized in the NDOR design process outline and the standard plans.
- ✓ Projects located within a MS4 community that were to be turned in during calendar year 2014-2015 were evaluated and designers were informed of requirements to include Stormwater Treatment Practices as needed through the environmental meetings listed in the design process outline. Project evaluations are maintained with the project design record.
- ✓ NDOR is set to capture Stormwater Treatment Facility information related to type, location and maintenance activity using GIS.

### Pollution Prevention and Good Housekeeping Program

- ✓ A comprehensive evaluation of environmental stewardship requirements was documented by NDOR in 2014 to evaluate how Facility Runoff Control Plan (FRCP) requirements can better coordinate with other regulatory requirements. The evaluation summarized regulatory requirements for maintenance facilities to provide FRCP, Spill Prevention Control and Countermeasure Plan, Hazardous Waste Management, Highway Spills Protocol, Emergency Planning and Community Right to Know – Tier II, General Waste Management, Stormwater Treatment Facility Maintenance, Potable Water Wells, and Underground Storage Tanks. The regulatory summary addressed permits, reporting, inspection, education/training and oversight requirements for NDOR.
- ✓ Four training sessions were provided to maintenance facility representatives for recording routine inspection in ECODatabase as an alternative to recording paper inspections.
- ✓ NDOR invested in enhancements to ECODatabase for its Good Housekeeping (GHPP) module that manages NDOR's maintenance facility runoff control plan inspections.
- ✓ A total of 16 FRCP audits were performed across NDOR Districts 1, 3, 4, 5 & 6 during this reporting period. Each FRCP audit inspection was comprehensive and included a visual assessment of records and the facility to determine if each facility has implemented the program.

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**Figure 1 NDOR State-wide MS4 Areas**

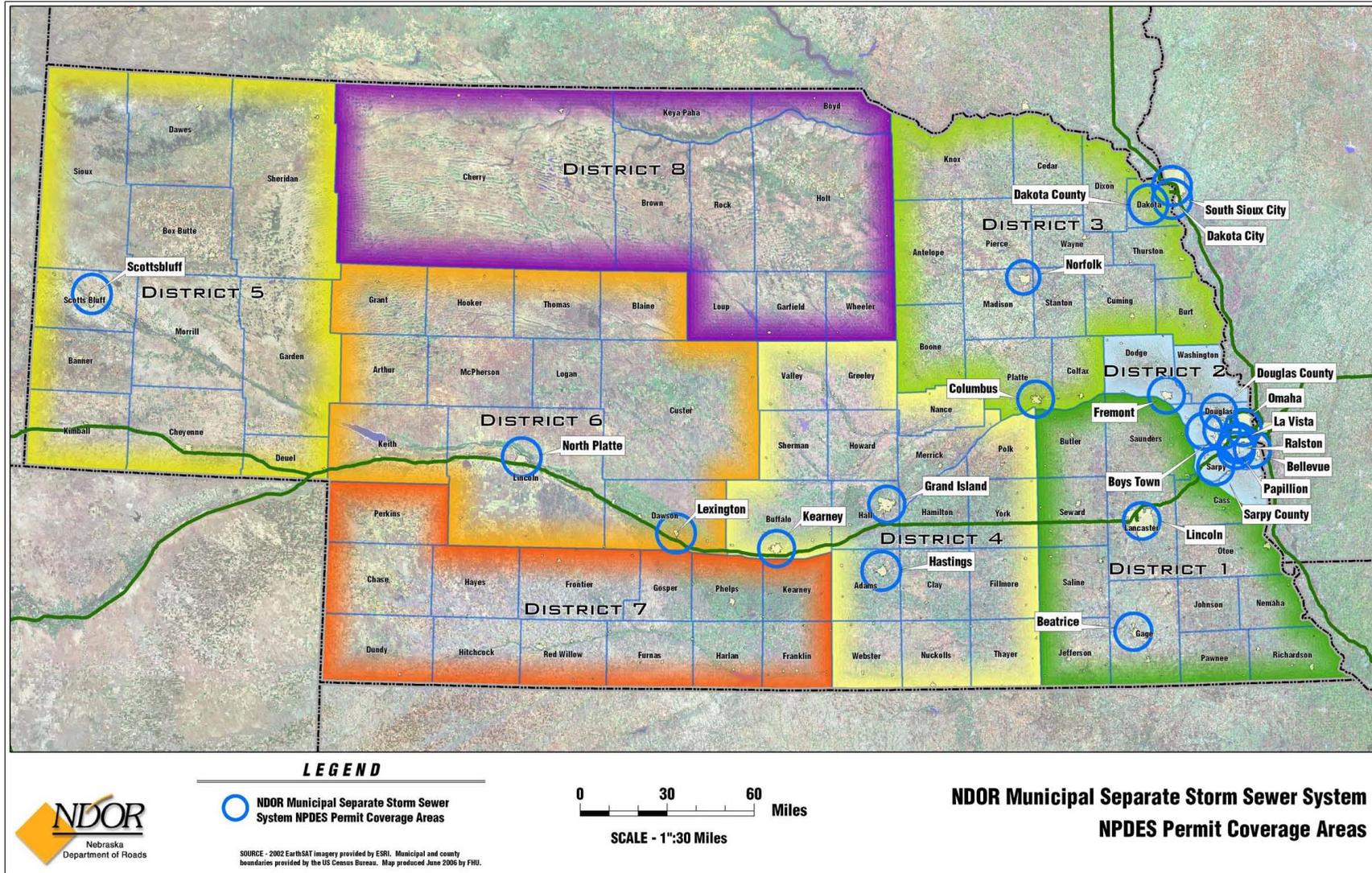
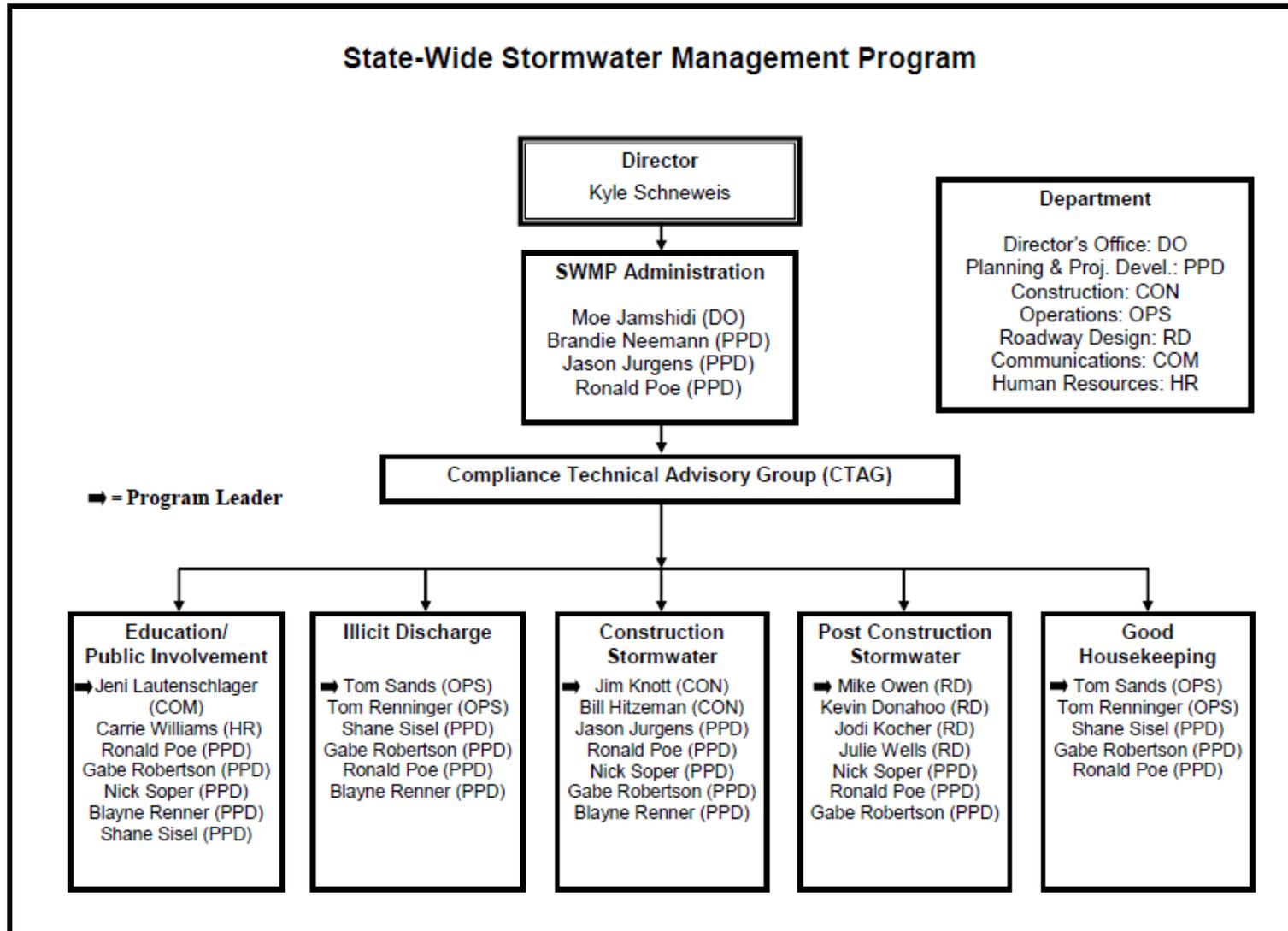


Figure 2 NDOR COMPLIANCE TECHNICAL ADVISORY GROUP



## **1.0 & 2.0 PUBLIC EDUCATION AND OUTREACH**

The 2014-2015 measurable goals for Public Education and Outreach are summarized below.

### **BMP 1: Stormwater Education Materials**

- ▶ **Measurable Goal 1** - Maintain Stormwater Education Materials as one aspect of the current and accurate PEO Strategy with SWMP
  - ✓ The NDOR PEO Strategy lists all materials NDOR maintains to address direct and indirect stormwater education.
  - ✓ An extensive update to the Live Erosion & Sediment Control Training Class was completed in 2014 to emphasize how the Nebraska Construction Stormwater General Permit language tied to specific NDOR policies & procedures.
  - ✓ An Example Stormwater Pollution Prevention Plan (SWPPP) was utilized as the primary resource component of the Live Erosion Control Training Classes
  - ✓ Construction Stormwater BMP Fact Sheets and BMP Pocket Guides were included as handouts in Erosion Control Training Classes.
  - ✓ The NDOR Drainage Design and Erosion Control Manual - Chapter 3 and associated Stormwater Treatment Design Guides were included as handouts for post construction stormwater training classes. These documents are also available on the NDOR website.
  
- ▶ **Measurable Goal 2** - Coordinate resources needed to develop stormwater quality education materials
  - ✓ NDOR evaluated and updated the stormwater content presented on the Environmental Section Webpages.
  - ✓ A companion maintenance and inspection guide was created for each Stormwater Treatment Practice Design Guide.
  - ✓ A stormwater treatment design course was developed and implemented to introduce designers to Chapter 3 of the Drainage Design and Erosion Control Manual. Stormwater treatment design courses were provided 3 times throughout 2014-2015 with approximately 90 people attending.
  
- ▶ **Measurable Goal 3** - Distribute, track, and report stormwater quality education materials made available to the Target Audience
  - ✓ The NDOR Public Education and Outreach Strategy lists educational references such as manuals, policies, and standards that are required for completing work with NDOR. These core education materials are available to anyone working for or with NDOR. The PEO Strategy will be updated in 2016 to clarify the current version and access location for each of these materials. When updates are made to core educational materials, the impacted primary target audience is notified.
  - ✓ Presentation slides, Example Construction Stormwater Pollution Prevention Plans (SWPPPs), NDOR Field BMP Pocket Guides (4,000 Distributed to date), BMP Fact sheets, NDOR environmental procedures, permit information, temporary erosion control plan requirements, final stabilization references, associated environmental commitments, and example tracking forms were distributed to each attendee of the Erosion Control Inspector Certification course listed in Appendix B.

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- ✓ Presentation slides, Drainage Design and Erosion Control Manual Chapter 3, Stormwater Treatment Design Guides, example problem sets and tracking forms were distributed to each attendee of the Stormwater Treatment Design Training course listed in Appendix B.
- ✓ “Discover Nebraska’s Roadside Flowers and Grasses” brochures were provided to rest area informational kiosks for distribution to the public. In addition, brochures were provided to gardening groups, classroom teachers, and other groups upon request. Since its original printing of 10,000 copies, a second printing has been largely distributed as well. The brochure was updated and reprinted in 2014.

### **BMP 2: Stormwater Training and Events**

- ▶ **Measurable Goal 1** - Maintain Stormwater Training and Events as one aspect of the current and accurate PEO Strategy
  - ✓ Upon completion of the live Erosion Control Inspector certification course, attendees are required to pass an exam and are then certified to inspect NDOR projects for 5 years.
  - ✓ Erosion Control Inspector Interim Certification is available only to individuals that have not received certification from NDOR previously for stormwater inspections. Training is provided through an on-line set of modules to allow individuals meet minimum qualifications to inspect NDOR projects until a certification course can be attended. The Interim certification is valid for 6-months and is not renewable. Attendance at a live training session and a passing exam score is required to receive full certification.
  - ✓ Erosion Control Inspector Recertification is available through on-line training modules and certified inspectors will be notified by email (using current email account on file) of their requirement to renew. Inspectors are notified at least three months prior to certification expiring. Inspectors are also notified when their certification has expired. If the certification expires, the individual is required to attend the live certification course and cannot use the on-line recertification option.
  - ✓ Classroom training for the new Stormwater Treatment Design requirements and standards is routinely offered as needed. Training is provided as an interactive session to all NDOR design staff, consultants and municipal design engineers responsible for designing roadway stormwater management practices.
  - ✓ NDOR receives feedback from attendees of the new Stormwater Treatment Design Training course. Feedback is directed to the Hydraulics Unit of NDOR to direct improvements that could be made to the content, delivery and setting of the training course.
- ▶ **Measurable Goal 2** - Coordinate resources needed to develop Stormwater Training and facilitate Event opportunities
  - ✓ NDOR’s Live Erosion & Sediment Control Inspector Training & Certification Program underwent an update of content to support learning objectives.
    - ▶ The Erosion Control Inspector Certification and Recertification Courses were merged into one consolidated course offering, undergoing a substantial update to course content to more effectively address BMP selection, installation and maintenance.
    - ▶ Presentation materials were updated to improve visual content, reflect current practices and standards, and focus on case studies from Nebraska projects.
    - ▶ Presentation materials were updated to improve learning objectives for BMP selection, installation, and maintenance.

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- ▶ A new section of the live certification course highlighted relevant elements of Nebraska's Construction Stormwater General Permit, and how NDOR incorporates permit requirements into its design and construction protocols.
- ▶ A group exercise of conducting a routine environmental inspection was added to the live course, requiring teamwork in inspection, assessment, identification of corrective actions, and collaboration for finding solutions to common construction site scenarios.
- ✓ NDOR's Erosion & Sediment Control Inspector Training & Certification Program on-line options were available in February 2014.
  - ▶ A 2-hour Interim Certification (3 modules) option and a 6-hour Re-Certification (6 modules) option were recorded.
  - ▶ The on-line training format facilitated by LTAP allows users to create an account, register for course content, listen to recorded modules that are incorporated with slides used during the live certification courses, and complete quiz questions that evaluate a minimum level of qualifications for being a certified stormwater inspector for NDOR projects.
  - ▶ Registration for and completion of on-line courses are available at <http://ne-ltap.unl.edu/erosion-control>
- ✓ NDOR continued to provide an interactive Drainage Design and Erosion Control Manual Chapter 3 and Stormwater Treatment BMP Training presentation including a program overview, introduction to stormwater treatment practices, sample problem design, and discussion of additional design considerations.
- ✓ NDOR coordinated with LTAP to facilitate registration and attendee evaluation of Erosion Control Inspector and Stormwater Treatment Design training sessions. Evaluations were provided to all stormwater training attendees to measure training & program effectiveness. Feedback from evaluations helps refine and enhance training content and delivery.
- ✓ NDOR coordinated with Felsburg Holt & Ullevig to develop and deliver live Erosion Control Inspector Certification and Recertification courses as well as Stormwater Treatment Design classes.
  
- ▶ **Measurable Goal 3** - Promote, sponsor, (co)host, track, and report Stormwater Training and Event opportunities provided to the Target Audience
  - ✓ Live training for Erosion Control Certification and Recertification was provided throughout the year and is summarized in Appendix B.
    - ▶ 521 attendees received Live erosion control training through NDOR's program in 2014-2015. All training opportunities are available on the Nebraska LTAP website.
    - ▶ 325 attendees utilized the NDOR Online Erosion & Sediment Control Recertification course in 2014-15.
    - ▶ 74 attendees utilized the NDOR Online Erosion & Sediment Control Interim Certification course in 2014-15
  - ✓ Three (3) training courses regarding NDOR's new Chapter 3 - Stormwater Treatment within MS4 Communities, were presented.
    - ▶ February 27, 2014 – Estimated 30 attendees
    - ▶ July 16, 2014 -- Estimated 34 attendees
    - ▶ July 7, 2015 – Estimated 26 attendees
    - ▶ Additional courses will be offered in 2016-2017 and is available on the Nebraska LTAP, Erosion Control Training Page.
  - ✓ NDOR Stormwater Program Staff provided program-related presentations at various State and Regional events listed in Appendix B.

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## **BMP 3: Public Review and Comment**

- ▶ **Measurable Goal 1** - Maintain Public Review and Comment as one aspect of the current and accurate PEO Strategy
  - ✓ No changes were made to the Public Review and Comment approach to the Public Education and Outreach Strategy in 2014-2015.
- ▶ **Measurable Goal 2** - Coordinate resources needed to facilitate review and comment by the Target Audience
  - ✓ Public participation opportunities for all projects were posted on the NDOR website and in locally relevant news paper publications.
  - ✓ Quarterly CTAG meetings, District Environmental Coordinator Meetings, and NDOR Administration and Agency Updates were conducted throughout 2014-2015 and are summarized in Appendix B.
  - ✓ In addition, District Operation and Maintenance Manager (DOMM) Meetings, District Engineer (DE) Meetings and Environmental Section Meetings were held throughout 2014-2015. Environmental (MS4) staff regularly attend these meetings to update the target audience on MS4 program status and to gather input from administration.
- ▶ **Measurable Goal 3** - Promote, facilitate, track, and report Target Audience review opportunities
  - ✓ Each project let in 2014-2015 achieved the NDOR Public Participation Policy standards.
  - ✓ An update was provided April 16, 2014 to NDOR Directors and Resource Agencies.
    - ▶ Feedback from NDOR Directors during this meeting created discussion about and resulted in the transition to a 5-year Erosion Control Inspector certification period.
  - ✓ Quarterly CTAG meetings were scheduled throughout 2014-2015. Meeting dates are summarized in Appendix B.
    - ▶ Each meeting included a summary of activity completed by MCM task groups. Feedback provided during these sessions was a key component of directing the efforts of Construction and Post Construction task groups throughout the year.
  - ✓ District Environmental Coordinator Meetings were held throughout the year and are also summarized in Appendix B. These meetings addressed multiple environmental topics and provided opportunities for District and Headquarters staff to communicate on project environmental issues.

## **BMP 4: Public Input Resources**

- ▶ **Measurable Goal 1** - Maintain Public Input Resources as one aspect of the current and accurate PEO Strategy
  - ✓ No changes were made to the Public Input Resources approach to the Public Education and Outreach Strategy in 2014-2015.

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- ▶ **Measurable Goal 2** - Coordinate resources needed to host public input resources (hotline, website, DIRK, ECODatabase, etc.)
  - ✓ NDOR Roadside Stabilization Unit, Design Division and Maintenance Division environmental staff members receive phone and email communication from the primary target audience. A general NDOR phone number is available and switchboard operators transfer stormwater related questions to appropriate staff members. Agencies, Designers, Inspectors, Contractors and other NDOR staff utilize the expertise of these technical staff members to address timely questions related to stormwater management.
  - ✓ The NDOR website provides anyone with internet access the ability to submit questions, comments, or suggestions to the Agency. Notifications to the agency that are related to stormwater management are forwarded from the Communications Division to the Roadside Stabilization Unit.
  - ✓ Coordination meetings with Communications Division Staff occur throughout the year to update the Environmental Web Pages.
  - ✓ Public reporting is available on the main NDOR website through the “Report a Highway Concern” page.
  - ✓ Emergency Operations (i.e. spills, accidents with hazardous materials) can be reported to 911 and NDOR Operations Division 24-hour hotline at (402) 479-4444.
  
- ▶ **Measurable Goal 3** - Promote, facilitate, track, and report public input provided to the MS4
  - ✓ NDOR staff members do not track the number of phone calls and emails (including emails forwarded from the NDOR website administrator) that are handled each year. Staff forwards information collected to the proper departments.
  - ✓ If the general public reports issues to a District office, the report is entered into the DIRK system for tracking and incident reporting.

### ***Public Education and Outreach Activities Scheduled for 2016 and 2017***

- ✓ Complete updates to PEO Strategy
- ✓ Evaluate NDOR Field BMP Pocket Guide Revisions
- ✓ Initiate Review and Update of Chapter 2 in Drainage Design and Erosion Control Manual
- ✓ Comprehensive updates of Illicit Discharge Detection and Elimination (IDDE) Training & Education
- ✓ Comprehensive updates to Pollution Prevention & Good Housekeeping Training & Education
- ✓ Comprehensive update to the Construction SWPPP designer training course
- ✓ Initiate review & update of Online Erosion Control Training Recertification and Interim Certification Courses
- ✓ Continue offering Erosion Control and Stormwater Inspector Certification training courses as needed

### **3.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)**

The 2014-2015 measurable goals for Illicit Discharge Detection and Elimination are summarized below.

#### **BMP 1: Dry Weather Inspections**

- ▶ **Measurable Goal 1** - Update IDDE Plan with inspection priorities, reporting forms, contact info.
  - ✓ The IDDE plan, along with attachment documents, were reviewed and edited in 2014-2015. These documents will be approved and finalized in 2016.
  
- ▶ **Measurable Goal 2** - Follow dry weather field screening procedures
  - ✓ All existing priority outfall points were field monitored according to procedures outlined in the IDDE Plan.
  - ✓ Field mapping and monitoring procedures were reviewed and edited throughout 2014-2015. These documents will be finalized and approved in 2016.
  
- ▶ **Measurable Goal 3** - Record incident and inspection dates, results, and observations in a database.
  - ✓ Outfall Geodatabase was updated for all monitored outfall points.
  - ✓ Newly mapped outfall points and associated informational fields were added to the geodatabase.

#### **BMP 2: Discharge Investigation and Removal**

- ▶ **Measurable Goal 1** - Update IDDE Plan with policies, permits, and procedures for investigating discharges and the Enforcement Response Plan for causing removal of discharges
  - ✓ The IDDE plan along with attachment documents were reviewed and edited in 2014-2015. These documents will be finalized and approved in 2016.
  - ✓ Enhancements are being considered for NDOR's DIRK to more effectively capture/record/track illicit discharges occurring on NDOR right of way. As these new programs develop, the IDDE plan will be updated to reflect the new policies and procedures.

- ▶ **Measurable Goal 2** - Maintain current and accurate statutes, policies, permits, procedures, Environmental Response Plan (ERP) and written investigation protocol.
  - ✓ Current and accurate statutes and permits are being maintained. Policies and procedures for IDDE are currently under review and will be finalized in 2016.
- ▶ **Measurable Goal 3** - Follow investigation and enforcement procedures and record details required by the IDDE Plan in a database.
  - ✓ NDOR is following the current IDDE Plan and is recording details in a GIS database.

### **BMP 3: Storm Sewer System Mapping**

- ▶ **Measurable Goal 1** - Coordinate resources needed to complete mapping of existing stormwater outfalls.
  - ✓ Outfall Geodatabase was updated for all monitored outfall points.
  - ✓ Newly mapped outfall points and associated informational fields were added to the geodatabase.
- ▶ **Measurable Goal 2** - Develop and implement protocol to record all new development and redevelopment plans to include geographic reference for outfall locations.
  - ✓ NDOR conducts “Stormwater Permit Close-Out Inspections” before terminating the Construction Stormwater Permit. This inspection is also now being used to cross-reference outfall points on the project with points recorded in the Geodatabase. This process will help identify discrepancies or changes in the field so corrections can be made if required.

**IDDE Inspections**

**Table 1 Summary of Illicit Discharge Detection and Elimination Inspections**

Activity	Summary of Activity
Dry Weather Inspections	<ul style="list-style-type: none"> <li>▶ Dry weather monitoring was completed for all “High Priority Outfalls” according to the IDDE Plan. One incident of illicit discharge (concrete dumping) was found in the Omaha Metro Area during outfall monitoring activities in 2015. This particular incident was reported to the NDOR District Office using the DIRK reporting system and a report was also sent to the City of Omaha. Headquarters Staff followed up with an additional inspection and the concrete had been removed. The resolution was entered into DIRK and submitted to City of Omaha.</li> </ul>
2014-2015 Spill Incident Breakdown	<ul style="list-style-type: none"> <li>▶ After filtering and sorting 2014-2015 spill data, twenty-eight spill incidents were documented throughout the state.</li> <li>▶ Of those 28, 16 were recorded in DIRK. The remaining 12 spills were documented in the Roadside folder on in the NDOR database.</li> <li>▶ Of the 28 spills, only three occurred within the MS4.</li> <li>▶ Of the 3 MS4 incidents, all were documented in the DIRK system and distributed to selected staff via email.</li> <li>▶ Of the 28 spills, 16 spills consisted of diesel as the main component.</li> <li>▶ Of the 28 spills, 5 spills consisted of fertilizer as the main component.</li> <li>▶ Corn mash spill &amp; manure spills are considered first a slippery road public hazard and second “spills”. Unlike manure spills, many corn mash spills can be traced to an exact point of origin or a handful of likely points of origin with minimal investigation. The Highway Spill Protocol team is reviewing corn mash spills for follow up actions.</li> <li>▶ Of the 28 spills, 17 estimates on quantity released were provided.</li> <li>▶ Of the objects &amp; solid debris found on roadway or in ROW, none were described as deliberate dumping.</li> </ul>

***IDDE Activities Scheduled for 2016 and 2017***

- ✓ Improve coordination of GIS data and recordkeeping for Annual Reporting
- ✓ Continue mapping new outfall points
- ✓ Continue Outfall Monitoring
- ✓ Finalize IDDE Plan Updates
- ✓ Discuss enhancements to the DIRK reporting system more effectively include IDDE events.
- ✓ Finalize NDOR Spill Protocol
- ✓ Develop and Implement IDDE Training

## 4.0 CONSTRUCTION SITE RUNOFF CONTROL

The 2014-2015 measurable goals for Construction Site Runoff Controls are summarized below.

### **BMP 1: Construction Stormwater Pollution Prevention Plans**

- ▶ **Measurable Goal 1** - Maintain Agency Standard Specifications that address construction stormwater BMPs.
  - ✓ The Roadside Stabilization Unit (RSU) continually reviews and updates Section 800 Specifications related to erosion control and seeding. Until NDOR prints a new version of the Spec Book, “Standard Specifications for Highway Construction”, RSU will continue implementing the changes as special provisions on new projects letting in April 2016 and beyond.
- ▶ **Measurable Goal 2** - Enforce contracts that enable the Agency to require temporary erosion and sediment control plans from contractors.
  - ✓ Compliance Oversight Plan was updated throughout 2014-2015. Additional changes are proposed for 2016.
  - ✓ Temporary erosion and sediment control plans were submitted for all NDOR projects and maintained with the project SWPPP. Contractors submit the plans to NDOR for review prior to or during the preconstruction meeting.
- ▶ **Measurable Goal 3** - Follow checklist and document development and review considerations for SWPPPs and temporary erosion and sediment control plans.
  - ✓ All Stormwater Pollution Prevention Plans for NDOR projects follow standard review requirements. Each year RSU reviews the SWPPP template and makes changes and improvements based off of field input and changing permit requirements. NDOR utilizes the “Clarity” Project Tracking Software to document design steps involved in assembling the SWPPPs pre-construction.
  - ✓ NDOR utilizes a standard SWPPP template for stormwater permitted projects. This template is available on NDOR’s website for Local Public Agencies and Consulting firms to use if they need additional guidance.
- ▶ **Measurable Goal 4** - Maintain current list of permitted construction sites within the MS4.
  - ✓ NDOR tracks all permitted projects through the ECODatabase System. This has proven to be an invaluable tool for managing projects for environmental commitments and tracking the status of projects through design, construction and into establishment. See Appendix C for a list of NPDES permitted projects.
  - ✓ NDOR ECODatabase will maintain records of completed projects for the minimum required by the NPDES construction permit, NPDES MS4 permit, or NDOR record retention policy, whichever is longer.

- ▶ **Measurable Goal 5** - Maintain the Public Education and Outreach Strategy to reflect current information and targeted messages about Construction SWPPPs.
  - ✓ NDOR updated the outreach strategy in 2014-2015 and will continue to modify the document as needed to best reflect education goals. NDOR made updates to the erosion and sediment control training courses and materials in 2014-2015. As erosion and sediment control BMPs evolve and new guidance becomes available, it is NDOR's goal to get that information to the target audience in a timely manner to improve the program and maintain compliance. See NDOR's "Public Education and Outreach Strategy" for additional information.

## **BMP 2: Construction Stormwater Inspections**

- ▶ **Measurable Goal 1** - Maintain ECODatabase and paper inspection forms to use for construction stormwater inspections.
  - ✓ NDOR has continued to make investments in its software program, ECODatabase, to identify, document and track project environmental commitments. ECODatabase is a web-based administrative program with a piece of software that is downloaded to complete project inspections and any related corrective actions. A few of the improvements that occurred during the reporting period are highlighted below:
    - ▶ Added the ability for project inspectors to make certain findings an "immediate action". This requires a 24 hour response time for the corrective action.
    - ▶ The inspector's project list on the Tool has implemented three levels of corrective action status: green, yellow and red. A flag next to each project appears in one of the three colors. Green color indicates the project has no unresolved corrective actions. A yellow flag tells the user that the project has unresolved findings that need resolution within seven days. A red flag tells the user the project has past due unresolved findings OR has findings that need immediate action. A count of unresolved findings is included next to the yellow or red flags.
    - ▶ Prevented projects in the system from moving to completion status if there are unresolved corrective actions. .
    - ▶ Expanded ability to update or close an unresolved finding. This allows users to address corrective actions in both the Tool and Web Module.
    - ▶ Several improvements to the ECODatabase website page for Threatened and Endangered species weekly reports were made. NDOR stakeholders identified and had programmed updates to the page inputs allowing the NDOR biologists to provide weekly Threatened and Endangered species reports to federal agencies.

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- ▶ **Measurable Goal 2** - Maintain Agency construction stormwater Compliance Oversight plan and inspection procedures.
  - ✓ Compliance Oversight Plan was updated throughout 2014-2015. Additional changes are being proposed for 2016.
  
- ▶ **Measurable Goal 3** - Conduct inspections (routine, complaint response and Compliance Oversight) and document inspection dates, findings, and Corrective Actions required.
  - ✓ NDOR follows the inspection frequency requirements listed in the Nebraska Construction Stormwater General Permit. In addition each project that goes through the environmental review at Headquarters is evaluated and assigned inspections based upon established criteria. For example, large grading projects will be assigned a greater number of inspections than would a simple overlay project.
  - ✓ NDOR has established a three tiered inspection approach for documenting inspections in ECODatabase. The first tier consists of project level inspections (Routine Environmental Inspections) that are conducted at least once every 14 days. The second tier of inspections (Environmental Compliance Oversight Inspections) is conducted by District Environmental Coordinators or third party consultants, on a monthly or less frequent basis. Finally, the third tier inspections are the Environmental Compliance Audits that are conducted by Headquarters Staff. Audits can range from a one-time project inspection frequency to a once a month frequency depending on the complexity of the project. Table 2 summarizes the inspections conducted in 2014-2015.
  - ✓ All corrective actions recorded during field inspections are recorded with a resolution date, method, and responsible person.
  - ✓ Automated emails from ECODatabase Inspection System prompt efficient resolution of corrective actions, and are an important part of the process of communication and coordination for NDOR's environmental commitment goals.
    - ▶ NDOR implemented weekly digest emails that contain a table of unresolved corrective actions pertaining to the recipient's assigned projects. This feedback loop helps ensures the responsible staff are consistently aware of project findings.
    - ▶ The project Punchlist is included in the weekly digest and on every submitted inspection email. This enhancement furthers the efforts to influence the communication and collaboration for the project.

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**Table 2 Summary of Statewide Construction Site Environmental Inspections**

Activity	Summary of Activity	Estimated # of Inspections Anticipated	Total # of Inspections Submitted	Overall Performance
<b>Environmental Construction Site Inspections (within MS4 Boundaries)</b>	Routine Environmental Inspections Project level inspections conducted on a biweekly basis by Project Managers and/or Project Inspectors	249	227	110%
	Environmental Compliance Oversight Inspections Routine oversight inspections conducted by on-call Consultants and District Environmental Coordinators (DECs)	95	52	55%
	Environmental Compliance Audits Environmental audits conducted by NDOR Roadside Stabilization Unit Staff	34	8*	24%
*Not all Environmental Compliance Oversight and Audit inspections were recorded within ECODatabase during this period. These inspections are not always documented as a formal inspection with a report. The compliance oversight plan encourages one Oversight and Audit inspection per month during the construction phase, but only routine environmental inspections are required for MS4 permit compliance during this reporting period.				

- ▶ **Measurable Goal 4** - Maintain the Public Education and Outreach Strategy to reflect current information and targeted messages about conducting Construction Stormwater Inspections.
  - ✓ NDOR conducts stormwater and erosion control training across the state. Anyone inspecting, maintaining or installing erosion control BMPs on NDOR projects is required to be certified in the NDOR Erosion Control Inspector Certification course. See section 1.0 Education and Outreach for additional information on NDOR's training and certification program.
  - ✓ Erosion and Sediment Control courses for interim certification, certification, and recertification were updated. Curriculum pertaining to Construction Stormwater Inspections was revised. The current information and targeted messages are related to selection, installation, maintenance and documentation required for BMPs evaluated in the field.
  - ✓ During the reporting period, inspectors were notified of updates and trained in the use of the NDOR ECODatabase software during District Environmental Update Meetings. These meetings are summarized in Appendix B.

**BMP 3: Construction Stormwater Enforcement**

- ▶ **Measurable Goal 1** - Update the Agency construction stormwater Enforcement Response Plan and associated enforcement mechanisms available to the Agency.
  - ✓ During the first MS4 permit cycle, NDOR developed the “State-Wide Stormwater Management Program: Enforceable Authority” document along with NDOR’s Compliance Oversight Plan. These two documents outline how erosion control requirements will be inspected and enforced on NDOR construction sites. Both documents will be reviewed and updated in 2016 to reflect recent changes to NDOR’s stormwater program.
  - ✓ Corrective Action Reports are developed after an inspection report is logged in the ECODatabase system and are automatically distributed through email to appropriate personnel. Corrective actions are required to be addressed within 7 days.
  - ✓ NDOR has introduced the new mandatory B3 Specification. This Environmental Special Provision rewards contractors for responding to corrective actions in a timely manner after rain events. It includes payment for environmental related items that used to be subsidiary, and penalizes contractors for not addressing corrective actions within the assigned due dates. The following summarizes the major components of the B3 Special Provision:
    - ▶ Storm Event Restoration Incentive: An incentive payment requiring all corrective actions to be completed within seven (7) days of notification (after one half inch or greater rainfall event). Extensions to the 7-day rule are allowed but require a written request from the contractor and a proposed compliance plan within 48 hours. If no extension is granted, disincentive assessment will be assessed on the 8<sup>th</sup> calendar day after the Initial Notice Date.
    - ▶ Storm Event Restoration Disincentive: If restoration work is not completed within the allowed time, a disincentive assessment of \$500.00 per corrective action, per day will be assessed until the restoration work is completed. An incentive will not be paid when work is not completed within the allotted time.
    - ▶ Immediate Action Deficiencies: Deficiencies posing an immediate threat to the environment must be addressed within 24 hours or the contractor will be assessed a disincentive assessment of \$1,000.00 per immediate corrective action, per day. Immediate Action Deficiencies are not eligible for an incentive payment. Examples include Threatened & Endangered Species habitat protection deficiencies, USACE 404 Permit noncompliance, petroleum spills or tank leakage, and hazardous material spills.
    - ▶ Environmental Commitments – Contractor Compliance: This new contract item, included as a lump-sum bid item, provides payment for plans, inspections, surveys, reports, travel, qualified inspection persons, and any other subsidiary activities for the work of implementing Threatened & Endangered Species commitments, temporary erosion control, or any other environmental commitments prescribed in the contract.

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- ▶ **Measurable Goal 2** - Maintain current and accurate construction stormwater policies, procedures, permits, Enforcement Response Plan (ERP), and project contracts.
  - ✓ Updates to the NDOR Environmental Compliance Oversight Plan and ERP are scheduled for 2016.
  
- ▶ **Measurable Goal 3** - Follow ERP and document enforcement communication dates, parties involved, actions taken, and resolution dates in a database.
  - ✓ NDOR is able to enforce the erosion control program through specifications and contract documents. NDOR has introduced the B3 Specification. This new mandatory Environmental Special Provision is included in all projects, rewarding contractors for responding to corrective actions in a timely manner after rain events and penalizing contractors for not addressing corrective actions within the assigned due dates.
  - ✓ The inspector's project list on the Tool has implemented three levels of corrective action status: green, yellow and red. A flag next to each project appears in one of the three colors. Green color indicates the project has no unresolved correctives. A yellow flag tells the user that the project has a unresolved findings that need resolution within seven days. A red flag tells the user the project has past due unresolved findings OR has findings that need immediate action. Included is a count of unresolved findings next to the yellow or red flags. This system heightens the awareness of project findings and continues the advancement of methods that influence user behaviors.
  - ✓ Other enforcement tools available to the Department include withholding payment for work and project shut down.
  - ✓ NDOR also took the necessary step of funding an Environmental Compliance Position with the Roadside Stabilization Unit in 2015. This position is responsible for project Environmental Audits and the review and oversight of project inspections and corrective actions submitted by NDOR inspectors.

NDOR had no enforcement actions issued in 2014-2015.

### ***Construction Site Runoff Control Activities Scheduled for 2016 and 2017***

- ✓ Review and update current SWPPP template
- ✓ Update Environmental Compliance Oversight Plan
- ✓ Review Enforceable Authority Document
- ✓ Initiate review of Chapter 2 (Erosion Control Design) of the Drainage Manual
- ✓ Roll out new erosion control specifications

## ▶ **5.0 Post-Construction Site Runoff Control**

The 2014-2015 measurable goals for Post-Construction Site Runoff Controls are summarized below.

### **BMP 1: Post Construction Stormwater Treatment BMPs**

- ▶ **Measurable Goal 1** - Maintain current Post Construction Stormwater Treatment BMP Guides as references to the Drainage Design and Erosion Control Manual Chapter 3
  - ✓ Ongoing evaluation of design guidance was conducted by the Post Construction Stormwater Workgroup.
  - ✓ Following the approval of Drainage Design and Erosion Control Manual Chapter 3, NDOR moved to create and implement Standard plans and special detail sheets with quantity tables. Naming conventions were formalized in the NDOR design process outline and the standard plans.
  - ✓ NDOR determined the need to investigate selection criteria for Stormwater Treatment Practices that promote the greatest volume reduction. Best practices and policies for Stormwater Treatment Practices that provide volume reduction were evaluated.
  - ✓ Each design guide was used to build a companion maintenance and inspection guide. Maintenance guides for each Stormwater Treatment Practice were developed for the on-going maintenance and inspection of these assets.
  
- ▶ **Measurable Goal 2** - Implement Agency policy and standards for selection, design and maintenance of Post Construction stormwater treatment BMPs
  - ✓ Ongoing evaluation of implementation policy for selection, design and maintenance was conducted by the Post Construction Stormwater Workgroup.
  - ✓ NDOR developed and adopted standard procedures for creating project 2N sheets that are included in the project bid documents. These plan sheets are used to display information pertinent to the project but are not necessarily construction related. They include information about stormwater treatment BMPs associated with the project.
  - ✓ NDOR is utilizing the Claritydatabase to track implementation milestones through the design process and into letting.
  - ✓ Literature review was conducted to determine costs of stormwater treatment construction and maintenance.
  - ✓ Peer research of policy options for stormwater mitigation was initiated. Multiple design scenarios that would trigger the need for such design alternatives were considered. Peer-to-peer research as well as literature review was conducted with many states including Colorado, New Jersey, Maryland, Delaware, Indiana, Minnesota, Iowa, Wisconsin, Indiana, Ohio, and Illinois, as well as NCHRP 25-37. NDOR has not drafted a stormwater mitigation policy. Research and evaluation of options for both on site and off site mitigation will continue in 2016-2017.

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- ▶ **Measurable Goal 3** - Follow procedures adopted for reviewing Post Construction Stormwater Treatment BMPs on all new development and redevelopment projects
  - ✓ Projects located within a MS4 community were evaluated prior to their turn-in dates and designers were informed of requirements to include Stormwater Treatment Practices as needed. Project evaluations are maintained with the project design record.
  
- ▶ **Measurable Goal 4** - Maintain current list and information about Post Construction stormwater treatment BMPs installed within the MS4 boundary
  - ✓ Stormwater Treatment Practices are documented on 2N sheets and Right of Way plans.
  - ✓ NDOR is set to capture Stormwater Treatment Facility information related to type, location and maintenance activity using GIS.
  - ✓ Stormwater Treatment Practices installed to date are listed in Table #3.

**Table 3      Summary of Completed Stormwater Treatment Practices**

Project	Practice
District 1 Construction Office	Bio Swale to Treat Parking Lot Runoff

***Post Construction Site Runoff Control Activities Scheduled for 2016 and 2017***

- ✓ Standardize Stormwater Treatment labeling on plan sets
- ✓ Continue Development of GIS Stormwater Treatment BMP tracking database
- ✓ Refine Maintenance Guides for Treatment BMPs
- ✓ Continue researching mitigation options and criteria
- ✓ Develop On-Base integrated Form A for initial project analysis

## **6.0 POLLUTION PREVENTION AND GOOD HOUSEKEEPING**

The 2014-2015 measurable goals for Good Housekeeping and Pollution Prevention Program are summarized below.

### **BMP 1: Maintenance Facility Operations**

- ▶ **Measurable Goal 1** - Maintain maintenance facility inventory with a map, routine assessment and periodic audit assessment and investigation procedures.
  - ✓ An accurate inventory of 20 facilities within the MS4 boundaries is maintained.
  - ✓ Facility descriptions and contacts for all maintenance facilities in ECODatabase were updated with current information in 2015.
  - ✓ A map update was made for Lincoln Operations Hill Campus facility located within the MS4 boundary of Lincoln.
  - ✓ No additional facilities were added to the MS4 areas operated by NDOR.
  - ✓ Investigation procedures for routine and periodic audit assessments are maintained in the Facility Runoff Control Plan (FRCP) Program document. The latest version of the FRCP Program document is 2008.
  - ✓ A comprehensive evaluation of environmental stewardship requirements was documented by NDOR in 2014 to evaluate how FRCP requirements can better coordinate with other regulatory requirements. The evaluation summarized regulatory requirements for maintenance facilities to provide FRCP, Spill Prevention Control and Countermeasure Plan, Hazardous Waste Management, Highway Spills Protocol, Emergency Planning and Community Right to Know – Tier II, General Waste Management, Stormwater Treatment Facility Maintenance, Potable Water Wells, and Underground Storage Tanks. The regulatory summary addressed permits, reporting, inspection, education/training and oversight requirements for NDOR.
  
- ▶ **Measurable Goal 2** - Maintain current site-specific stormwater runoff control plans at high-priority MS4 facilities.
  - ✓ All high-priority MS4 FRCP documents are maintained onsite by facility representatives. An electronic copy of the current version of each FRCP is also available at Headquarters.
  - ✓ Each facility retains site-specific stormwater runoff control plans with recommended BMPs for five categories of maintenance activities, accurate record of qualified inspectors for routine inspections, facility inspection areas, facility inspection map, and inspection form. This information is also maintained in ECODatabase.
  
- ▶ **Measurable Goal 3** - Conduct and record routine inspections and findings in a central database.
  - ✓ NDOR began implementing ECODatabase for FRCP Inspections throughout 2014-2015. This was initiated on a voluntary (testing phase) basis. This approach also allowed for the necessary ECODatabase training to be conducted and for comments/feedback to be collected. NDOR plans to make all FRCP inspections mandatory in 2016.

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- ▶ For facilities not utilizing ECODatabase in 2015-2016, routine inspection records are required to be maintained at each facility. were provided to maintenance facility representatives for recording routine inspections in ECODatabase as an alternative to recording paper inspections.
- ▶ During this reporting period, 368 monthly inspections were submitted to ECODatabase by maintenance facilities located within an MS4 area.
- ✓ NDOR invested in enhancements to ECODatabase for its Good Housekeeping (GHPP) module that manages NDOR's maintenance facility runoff control plans.
  - ▶ Inspection Reports: Updates were made to the inspection report that is created when a facility has undergone an inspection: report labeling, processing time, presentation of Facility Checklist Questions, and prompting report completeness. These updates improved the usability for facility management staff.
  - ▶ Corrective Action Management: A corrective action on the Corrective Action Log page allows users to update the finding without having to close the corrective action. This feature improves corrective action communication on unresolved facility findings. Facility personnel with access to the system are able to check the status of the finding. When a new inspection is completed and submitted to the system, an email message is distributed that includes a link to a PDF of the Punchlist, allowing faster communication and action
  
- ▶ **Measurable Goal 4 - Conduct audits of MS4 facilities and record evaluation results in a central database**
  - ✓ 16 FRCP audits were performed across NDOR Districts 1, 3, 4, 5 & 6 during this reporting period. The list of facilities and dates is provided in Table 4.
  - ✓ Each FRCP audit inspection was comprehensive and included a visual assessment of records and the facility to determine whether the facility had implemented the program.
  - ✓ Site Supervisors, when available, accompanied the NDOR Highway Environmental Biologists during the walk-through audit inspection.
  - ✓ All FRCP audit findings during this reporting period have been resolved.
  - ✓ All records of FRCP audits are maintained in ECODatabase.

**BMP 2: Highway Stormwater Drainage System Inspection and Maintenance**

- ▶ **Measurable Goal 1** - Update inspection and maintenance policy for Treatment BMPs and drainage features in the Maintenance Manual.
  - ✓ NDOR Maintenance Manual: A schedule for updating the Maintenance Manual has not been established by Operations. However, suggested updates were developed for the next revision. The last update to the manual in 2010 added Chapter 11 – Environmental.
    - ▶ Suggested updates for Stormwater Treatment Practices to Chapter 11 – Environmental, Section 11.9 remain recommendations during this period.
    - ▶ Suggested updates for Chapter 3 – Work Activities included in the Maintenance Manual remain recommendations during this period.
    - ▶ Suggested updates for Activity Codes 2101, 2111 and 2114 to address dewatering/disposing of waste policy remain recommendations and additional research of existing District procedures is necessary during the next reporting period.
    - ▶ Supplemental recommendations for adding descriptions of stormwater management considerations to Maintenance Activity Codes remained recommendations during this period.
  - ✓ Stormwater Treatment Facility maintenance and inspection guides were published for 13 types of stormwater treatment facilities. Information included with each guide included:
    - ▶ Inspection form with inspection activities, answers, comments, activity code references and due dates.
    - ▶ Illustration with legend
    - ▶ Quick facts for inspectors regarding the type of maintenance that may need to be identified.
    - ▶ Maintenance activity list of dos and don'ts to guide effective maintenance that restores the stormwater treatment facility.
    - ▶ NDOR Roadside Stabilization Unit contact information for direct questions.
    - ▶ Equipment, Crew, and Materials descriptions by maintenance activity type to guide inspectors during inspections.
    - ▶ Level of Service rating criteria to measure the effectiveness of the asset and future priority for maintenance.
  
- ▶ **Measurable Goal 2** - Conduct routine and complaint response inspections and maintain Treatment BMPs, open channels, and catch basins.
  - ✓ Stormwater Treatment Facility inspections and maintenance.
    - ▶ See Table 3 for a list of constructed Stormwater Treatment Facilities.
    - ▶ No Stormwater Treatment Facility inspection reports were recorded during this period. The stormwater treatment facility installed at the Superior Street Maintenance Yard is inspected as part of the FRCP Inspection.
    - ▶ No maintenance was required for Stormwater Treatment facilities during this period.
  - ✓ Open channel and catch basin inspections and maintenance.
    - ▶ District maintenance staff is responsible for visually inspecting the condition of the highway environment and identifying maintenance activities that may be required. This method of visual inspection is not conducted solely to identify catch basins or open channels in need of maintenance.

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- ▶ When inspections or complaints indicate the need for cleanout, maintenance for open channels and catch basins is recorded as Maintenance Activity Code 2101, 2102, 2111, and 2114.
- ▶ Time and materials provided for these activities are not summarized by the agency and no method currently exists to distinguish efforts of maintenance within and outside the MS4 boundaries.
  
- ▶ **Measurable Goal 3** - Track Treatment BMP information including geographic location, inspection dates, observations, communications, and maintenance actions.
  - ✓ A GIS database layer is maintained by the Roadside Stabilization Unit to track all BMPs.
  - ✓ NDOR also maintains information about Stormwater Treatment Facilities in ECODatabase so periodic site inspection reports can be recorded and stored with facility information.
  
- ▶ **Measurable Goal 4** - Review and update enforceable authority to address adjacent MS4 and contractor maintenance of Treatment BMPs and drainage features.
  - ✓ The most recent NDOR policy review and summary of enforceable authority within adjacent MS4s was completed in 2007.
  - ✓ The jurisdictional responsibility for maintenance of the state highway system is distributed between the State and an adjacent municipality based on functional classifications found in State Statute 39-2103.
  - ✓ Where the State is not responsible based on functional classification, NDOR applies existing authority provided by State Statute 39-101(6) to require repair, reconstruction or preservation of the highway including drainage facilities and Stormwater Treatment Facilities.
  - ✓ NDOR does not currently utilize contractors for maintenance of Stormwater Treatment Facilities. If contractors are utilized, enforceable authority will be required through contract agreement language.
  
- ▶ **Measurable Goal 5** - Enforce statutes, contracts and agreements for Treatment BMP and drainage feature maintenance.
  - ✓ Stormwater Treatment Facilities have not been constructed in areas that require enforcement of statutes, contracts or agreements to date.
  - ✓ NDOR State Statutes for maintenance of highway drainage features within Adjacent MS4s remain in place at this time.
  - ✓ NDOR does not require adjacent communities to report maintenance activities of any appurtenances, of which Stormwater Treatment Facilities, drainage ditches, storm drains and catch basins are considered, as a condition of compliance with State Statute.

**BMP 3: Highway Maintenance Activities and Operations**

- ▶ **Measurable Goal 1** - Develop highway and parking lot sweeping practices to include with NDOR Maintenance Manual.
  - ✓ Highway and parking lot sweeping activities are categorized by NDOR Maintenance Activity Code 2050 – Unspecified Roadway and Shoulder Maintenance
  - ✓ Suggested updates for Maintenance Activity Code 2050 to address Best Management Practices for sweeper operation, storage, and material handling remain recommendations during this period.
  - ✓ Time and materials provided for these activities are not summarized by the agency and no method currently exists to distinguish efforts of maintenance within and outside the MS4 boundaries.
  
- ▶ **Measurable Goal 2** - Review Agency maintenance activities and operations conducted within MS4s and update the NDOR Maintenance Manual with pollution prevention practices.
  - ✓ Maintenance Manual: A schedule for updating the Maintenance Manual is not established by the Operations Division. The last update to the manual added Chapter 11 – Environmental in 2010.
    - ▶ Suggested updates for Maintenance Manual Chapter 8 Winter Operations related to Equipment, Materials and Ice Control remain recommendations during this period. NDOR will retain a flexible approach to Winter Operations as icy surface treatment requirements vary throughout the State and within the season.
    - ▶ Suggested updates for Maintenance Activity Codes 2511, 2514 and 2521 remain recommendations during this period.
    - ▶ Suggestions to update Chapter 3 – Work Activities included in the Maintenance Manual remain recommendations during this period.
    - ▶ Supplemental recommendations for adding descriptions of stormwater management considerations to Maintenance Activity Code descriptions remain recommendations during this period.
  - ✓ Winter Maintenance Research: Best practices and engineered controls recommended and implemented by other DOTs were researched in 2014 to develop a framework for discussing programmatic recommendations with Districts and NDOR Operations. A synthesis of programmatic approaches adopted by Minnesota DOT was documented for best practices and engineered controls relating to enabling framework, purchasing practices, on-site management, equipment, material application and treatment practices.

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- ▶ **Measurable Goal 3** - Implement Agency maintenance and operation policies.
  - ✓ Highway and Parking Lot sweeping is conducted. NDOR does not maintain the means to report on the amount of sweeping conducted within the MS4 boundary.
  - ✓ Winter Maintenance activities occur. NDOR does not maintain the means to report on the implementation of winter maintenance procedures conducted within the MS4 boundary.
  - ✓ Vegetation management policies are applied. NDOR does not maintain the means to report on the implementation of vegetation management procedures conducted within the MS4 boundary.
  - ✓ Other high priority Highway Maintenance operation activities are completed. NDOR does not maintain the means to report on other high priority operation activities conducted within the MS4 boundary.
  
- ▶ **Measurable Goal 4** - Enforce statutes, contracts and agreements for pollution prevention required of contractors and Adjacent MS4s.
  - ✓ Nebraska State Statutes remain in effect to require maintenance of the Nebraska State Highway System.
  - ✓ Municipal Maintenance Agreements (MMA) are enforced with all Nebraska Phase I and II MS4 municipalities. They define highway segments where maintenance is not the obligation of the State.

**Summary of Pollution Prevention/Good Housekeeping Inspections**

**Table 4 Summary of Pollution Prevention and Good Housekeeping Inspections**

Site #	Site Name	FRCP AUDIT DUE	DATE OF LAST FRCP AUDIT
00100	HEADQUARTERS - OPERATIONS - THE HILL	2016	7/2/2013
10100	LINCOLN YARD - 302 SUPERIOR ST	2018	10/16/2015
10200	LINCOLN YARD - SALT VALLEY	2018	10/23/2015
10700	BEATRICE YARD	2018	8/05/2015
20100	OMAHA YARD - SOUTH 108TH	2016	10/8/2013
20300	OMAHA YARD - MORMON BRIDGE	2016	10/7/2013
20600	ELKHORN YARD	2016	10/2/2013
20900	OMAHA YARD - S 25TH ST	2016	10/7/2013
21100	FREMONT YARD - W 23RD	2016	10/2/2013
30200	NORFOLK YARD - ALASKA AVE	2018	9/23/2015
30300	NORFOLK YARD - SALT STORAGE	2018	9/23/2015
31000	COLUMBUS YARD	2018	9/23/2015
31300	DAKOTA CITY YARD	2018	9/24/2015
33600	SOUTH SIOUX CITY YARD	2018	9/24/2015
40300	GRAND ISLAND YARD - POTASH	2018	11/19/2015
42400	KEARNEY West YARD - HWY 30	2018	11/17/2015
42500	KEARNEY YARD - I-80	2018	11/17/2015
60300	NORTH PLATTE YARD - HWY 30	2018	6/30/2015
60400	NORTH PLATTE YARD - I-80	2018	7/1/2015
61700	LEXINGTON YARD	2018	11/17/2015

***Pollution Prevention and Good Housekeeping Activities Scheduled for 2016 and 2017***

- ✓ Comprehensive FRCP Program Review and Update
- ✓ Implement ECODatabase for all monthly FRCP inspections.
- ✓ Finalize Compliance Oversight Plan for FRCP Program.
- ✓ Finalize BMPs for salt handling & storage. Update Maintenance Manual.
- ✓ Distribute periodic environmental newsletter for Operations Division.
- ✓ Initiate a Re-evaluation of the Hazardous Waste Management Program.
- ✓ Develop Standard Operating Procedures for Catch Basin/Inlet Cleaning and Street Sweeping

## **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 7.1.1 of the MS4 Permit requires NDOR to evaluate SWMP compliance and the appropriateness of identified BMPs.

- ▶ The measurable goals NDOR has established in the SWMP provide appropriate targets and direction for complying with MS4 permit requirements to protect waters of the state from stormwater runoff.
- ▶ Because NDOR has implemented stormwater management BMPs that demonstrate progress toward each SWMP measurable goal, as documented in this Summary Report, NDOR is in compliance with conditions and requirements of the MS4 Permit.
- ▶ NDOR staff members actively participate in stormwater industry working groups and remain knowledgeable about appropriate BMPs and measurable goals related to transportation MS4s which are implemented through continuous improvement of Agency policies, procedures, and practices.
- ▶ NDOR made updates to the "State-Wide Stormwater Management Program: Enforceable Authority" document.

### **7.2 Proposed Changes to SWMP**

Either the Department or the Permittee may propose amendments that are consistent with the requirements in Part 6.1 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.

- ▶ No changes are proposed to the current SWMP.

### **7.3 Improvements or Degradation in Receiving Waters**

- ▶ 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 continues to partner with the Local Technical Assistance Program (LTAP) of the University of Nebraska to implement statewide stormwater training as well as FHU Consulting for MS4 permit compliance assistance.

### **7.5 Data Collection and Analysis**

- ▶ See Appendix D: Current Research Projects.

### **7.6 Annual Budget and Expenditures**

- ▶ See Appendix E: NDOR Annual MS4 Budget.



## APPENDIX A: NDOR MS4 BOUNDARY MAPS

The MS4 maps included in this Appendix document the boundaries of the regulated MS4 for NDOR where SWMP implementation is required. The regulated and planning boundary maps for the MS4 operated by NDOR are established using a combination of the following considerations:

1. Regulated Boundary - EPA Urbanized Area Maps (2010 Census)
2. Regulated Boundary - City Corporate Limits (2013)
3. Planning Boundary - City Extra Territorial Jurisdiction (ETJ) – Allows for consideration of future development.

The current Phase II MS4 Permit issued to NDOR regulates discharges from property or locations that are owned by NDOR within all regulated Municipal Separate Storm Sewer Systems (MS4s) designated by the Director of NDEQ in accordance with NDEQ Title 119, Chapter 10 002.02 within the State of Nebraska. The MS4 Permit provides coverage for any property owned by the NDOR, the Permittee, which is located within the regulated Municipal Separate Storm Sewer Systems (MS4s) throughout the State of Nebraska. Identification of regulated MS4s is determined by the NDEQ according to Title 119, Chapter 10 002.10.

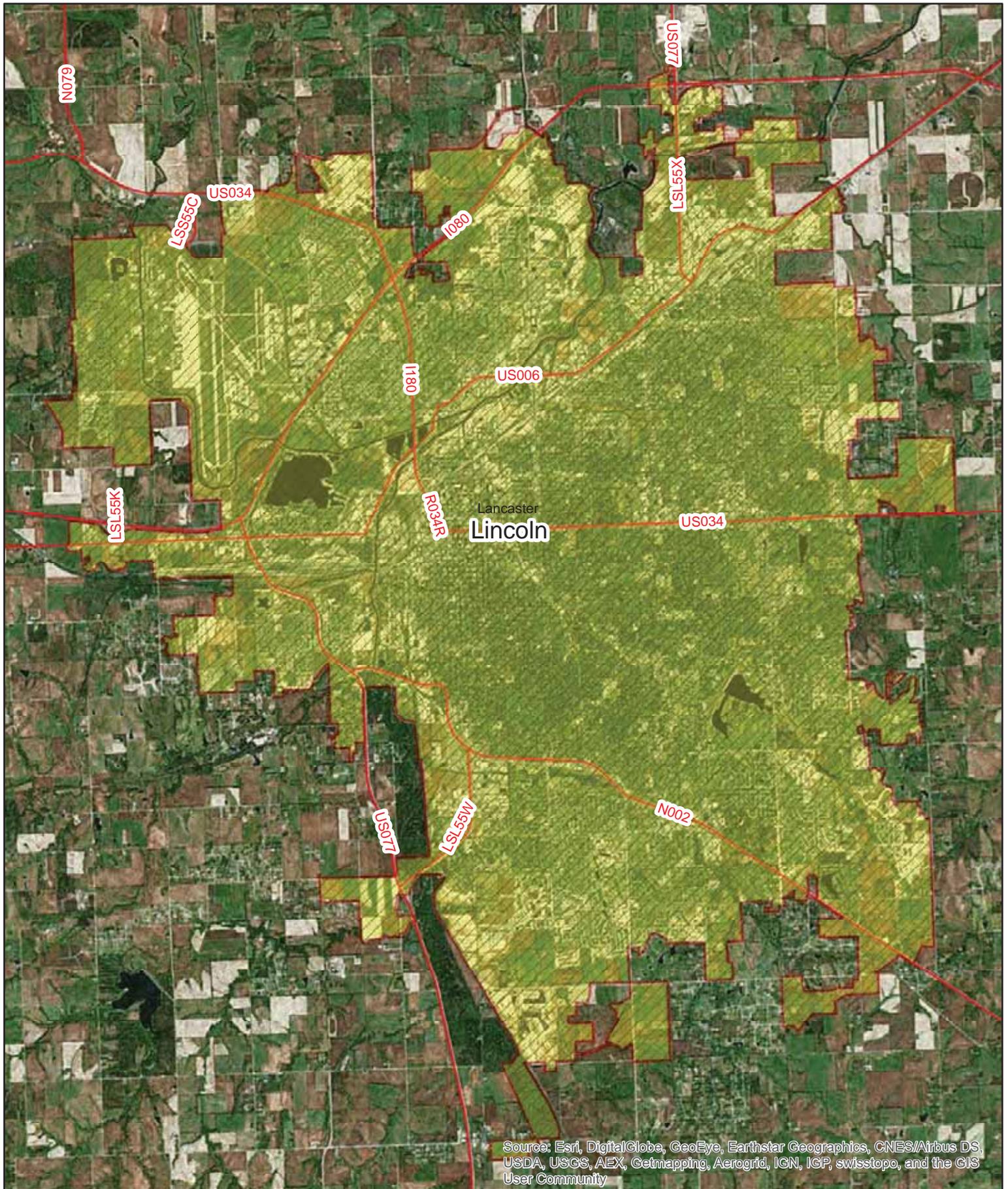
The MS4 maps that follow reflect the fundamental understanding that an MS4 is, “A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains.” An MS4 is NOT a jurisdiction. A jurisdiction is responsible, as owner/operator, of all or portions of an MS4. For this reason, a regulated MS4 may represent only a portion of a jurisdiction and a jurisdiction’s area of authority, in some circumstances, depending on the basis of designation made by NDEQ. This is particularly the case for special regulated MS4 designations and regulated MS4 areas operated by counties inside an Urbanized Area (UA) boundary.

NDOR may continue to plan for expansion of UAs and future regulated MS4 areas during planning and project development within the Extra-Territorial Jurisdiction (ETJ) of regulated MS4 municipal owners/operators where stormwater management standards, policies and programs may be in effect. A regulated MS4 county owner/operator, which has no ETJ, may also determine to apply stormwater management standards, policies and programs beyond the regulated MS4 boundary. In both situations, NDOR shall not be obligated by the NPDES permit to comply with MS4 program requirements beyond the regulated MS4 boundary to comply with the NPDES permit.

The regulated boundary is maintained (as demonstrated in this Appendix) for MS4 permit compliance. A planning boundary is observed (as demonstrated in the 2013 Annual Report) for anticipating future MS4 regulated areas caused by urban growth. For Post-Construction Stormwater Management only, NDOR may coordinate stormwater treatment with planning and project development evaluations within the urbanizing portions of a municipality or county as a cumulative and/or indirect impact. Previous maps submitted to NDEQ and EPA have demonstrated the nature of this concentric boundary. The attached maps reflect the regulated MS4 boundary only.



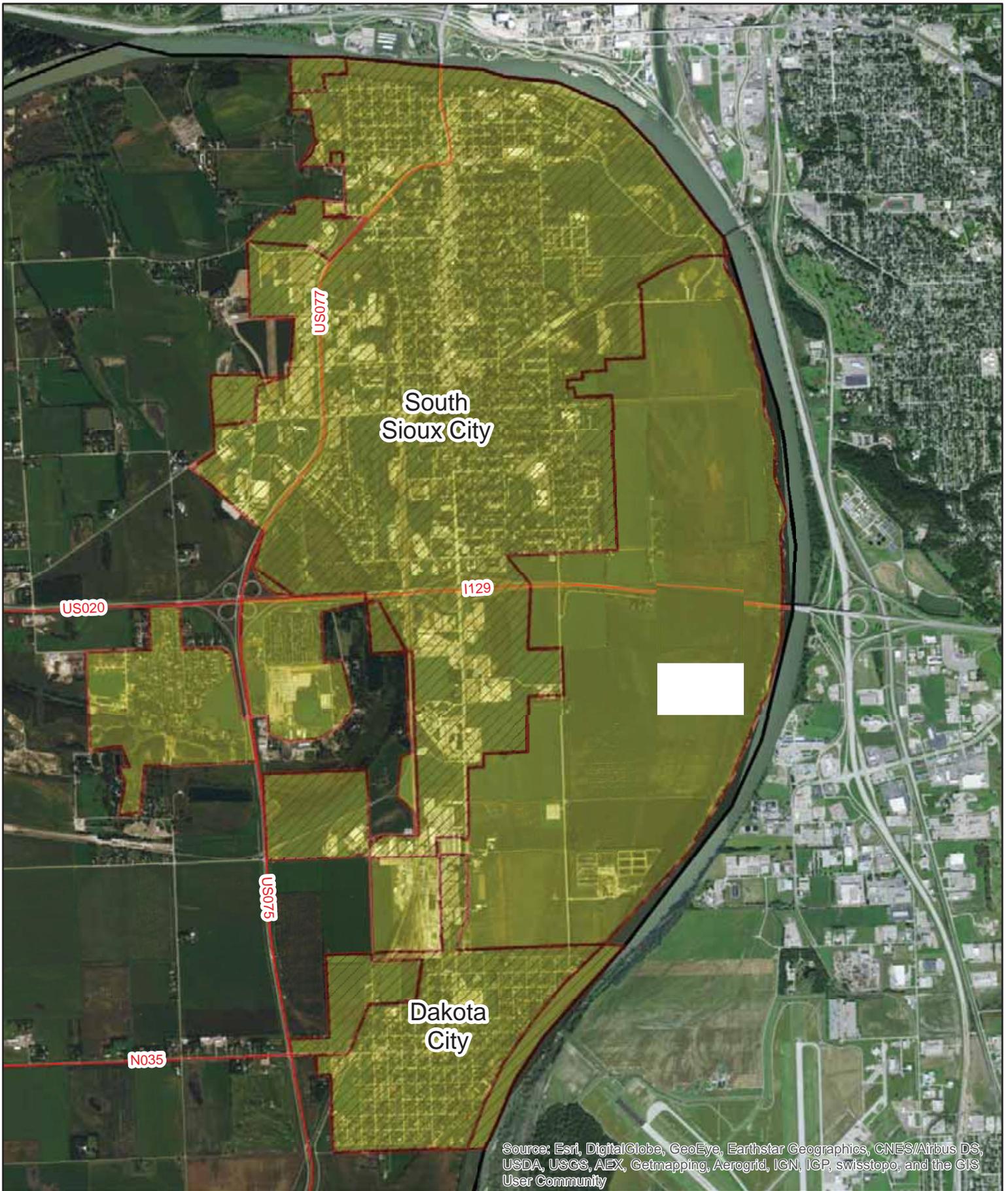




- Regulated MS4 Boundary
- NDOR Highway Network

# Lincoln

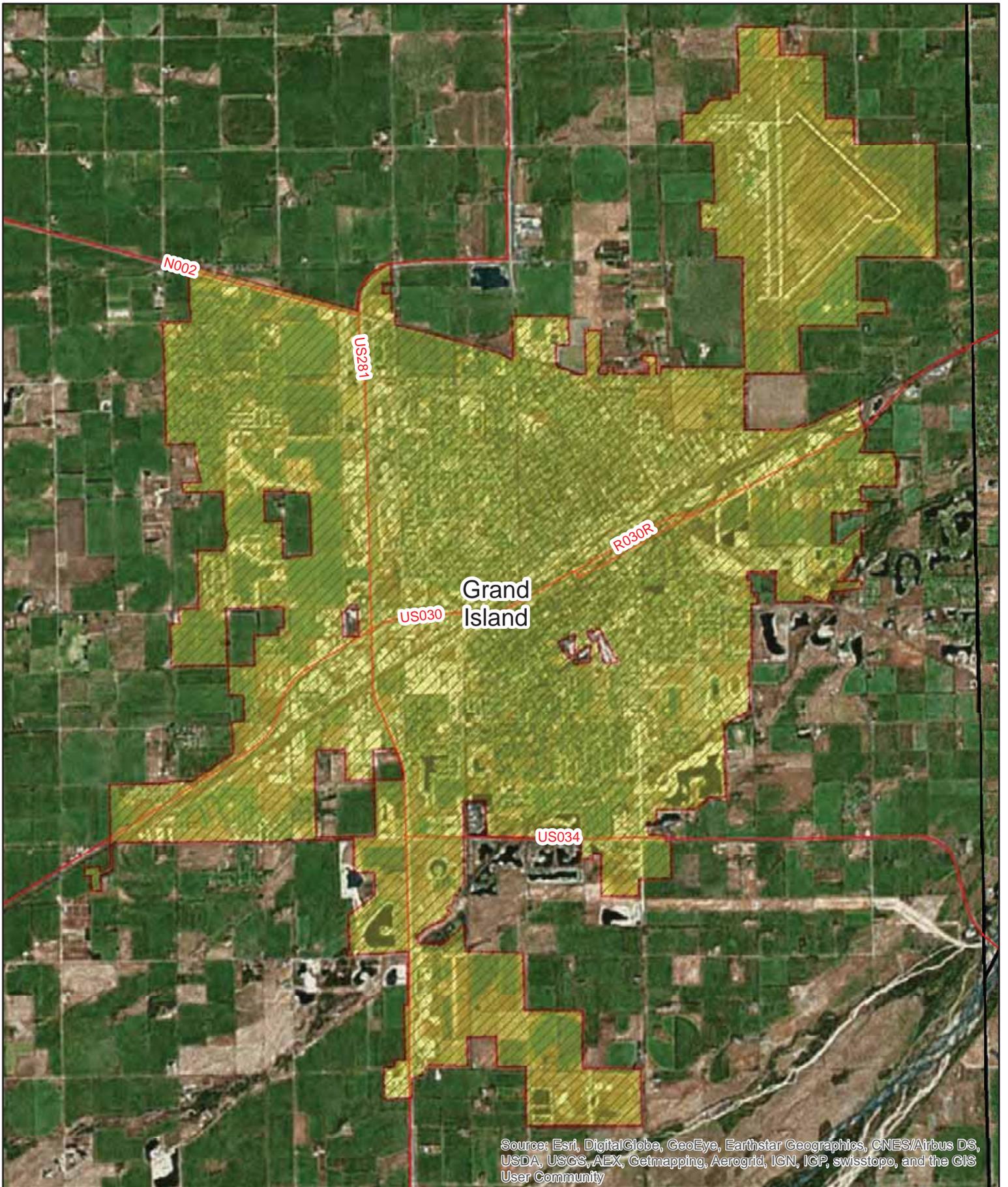
**NDOR Regulated MS4 Boundary**



# S. Sioux City Area

- Regulated MS4 Boundary
- NDOR Highway Network

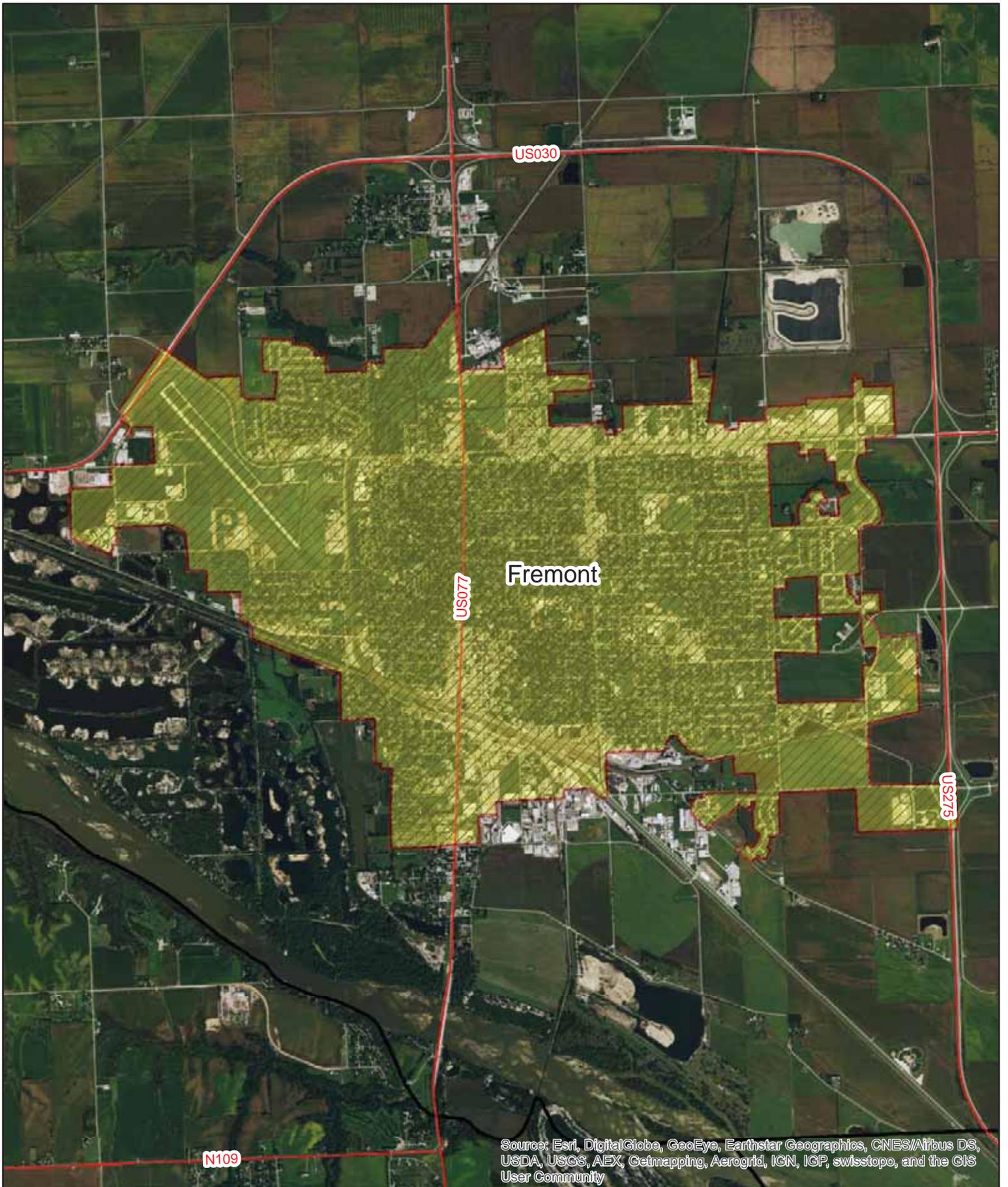
**NDOR Regulated MS4 Boundary**



-  Regulated MS4 Boundary
-  NDOR Highway Network

# Grand Island

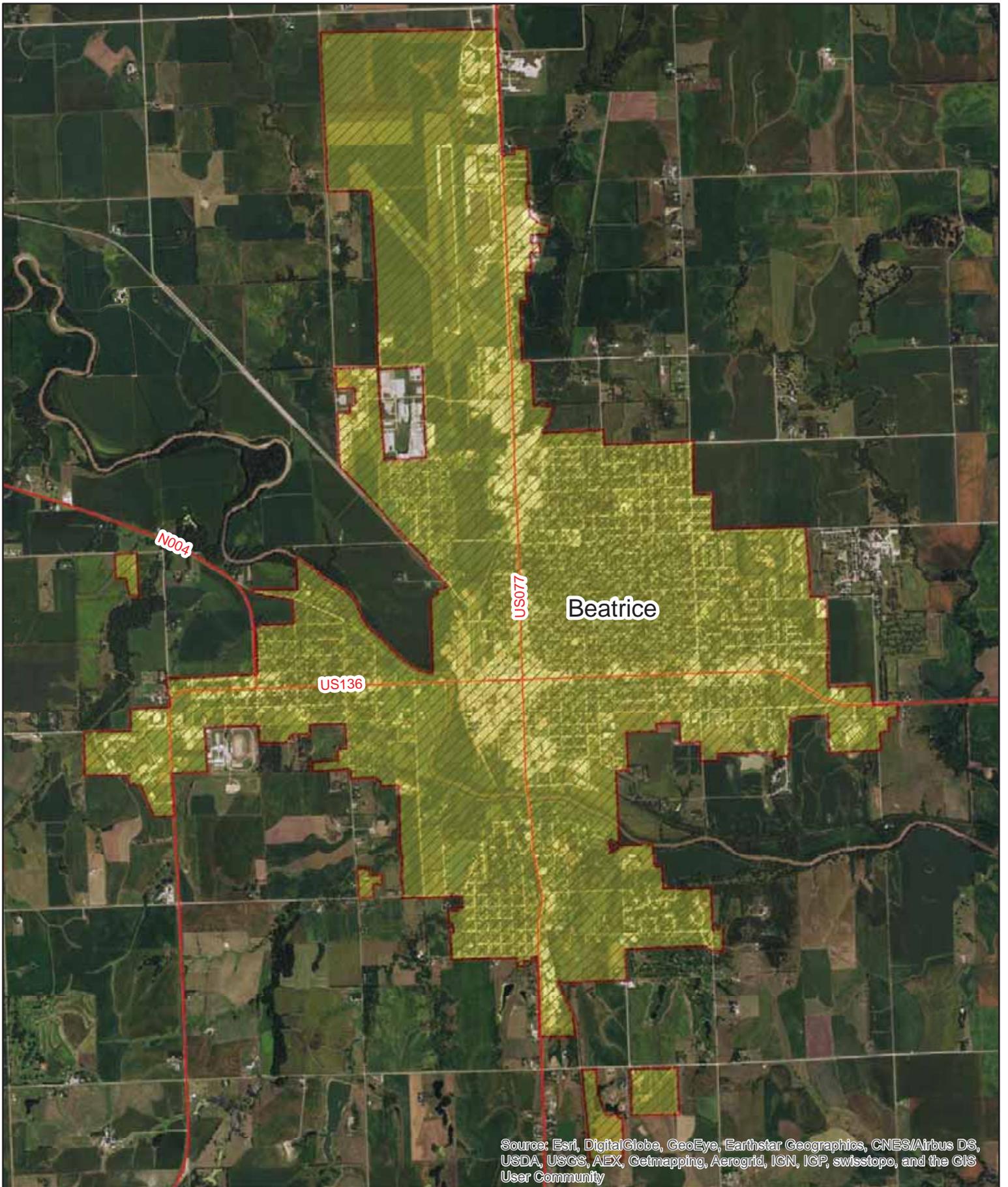
NDOR Regulated MS4 Boundary



- Regulated MS4 Boundary
- NDOR Highway Network

# Fremont

NDOR Regulated MS4 Boundary



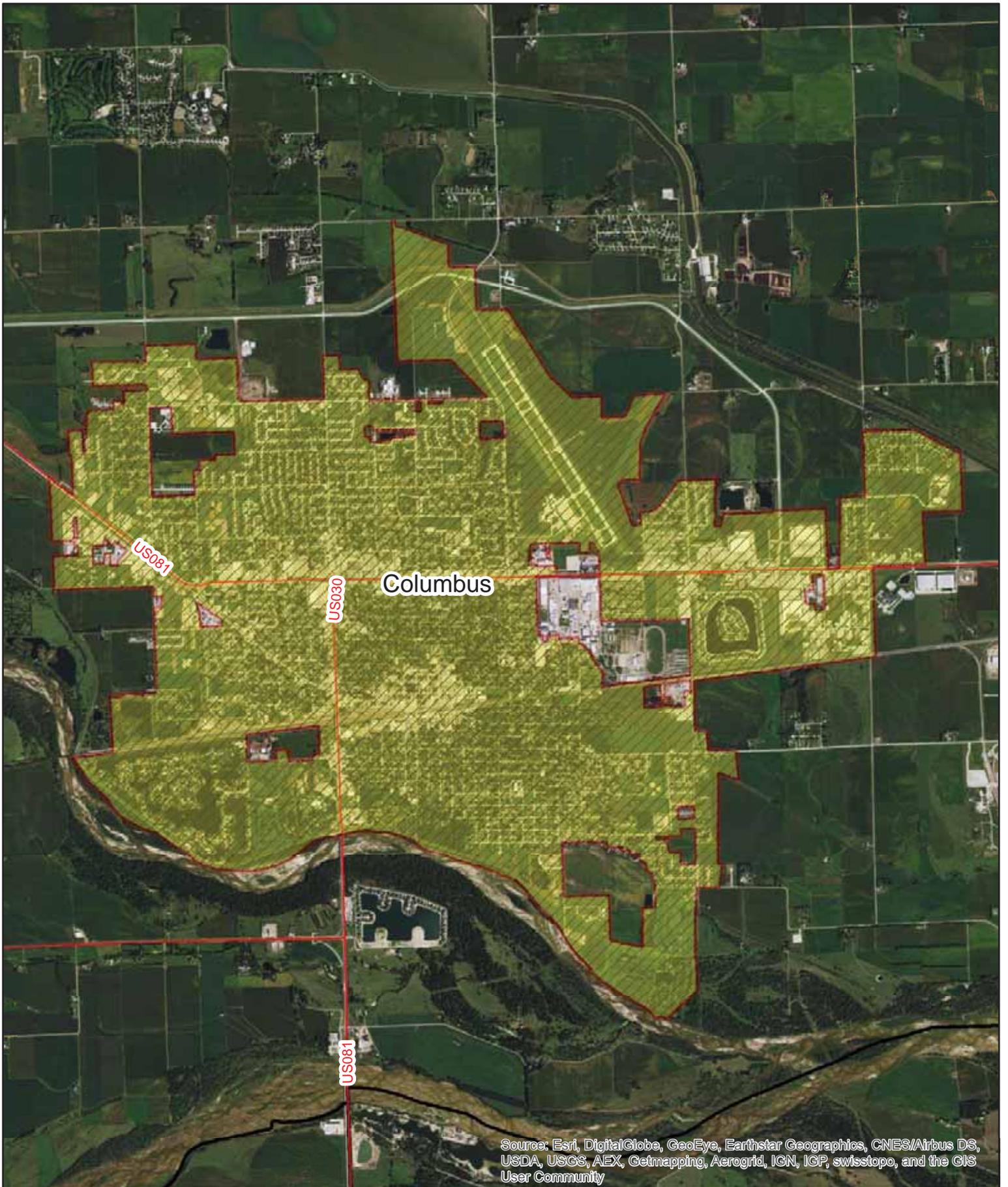
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



-  Regulated MS4 Boundary
-  NDOR Highway Network

# Beatrice

NDOR Regulated MS4 Boundary



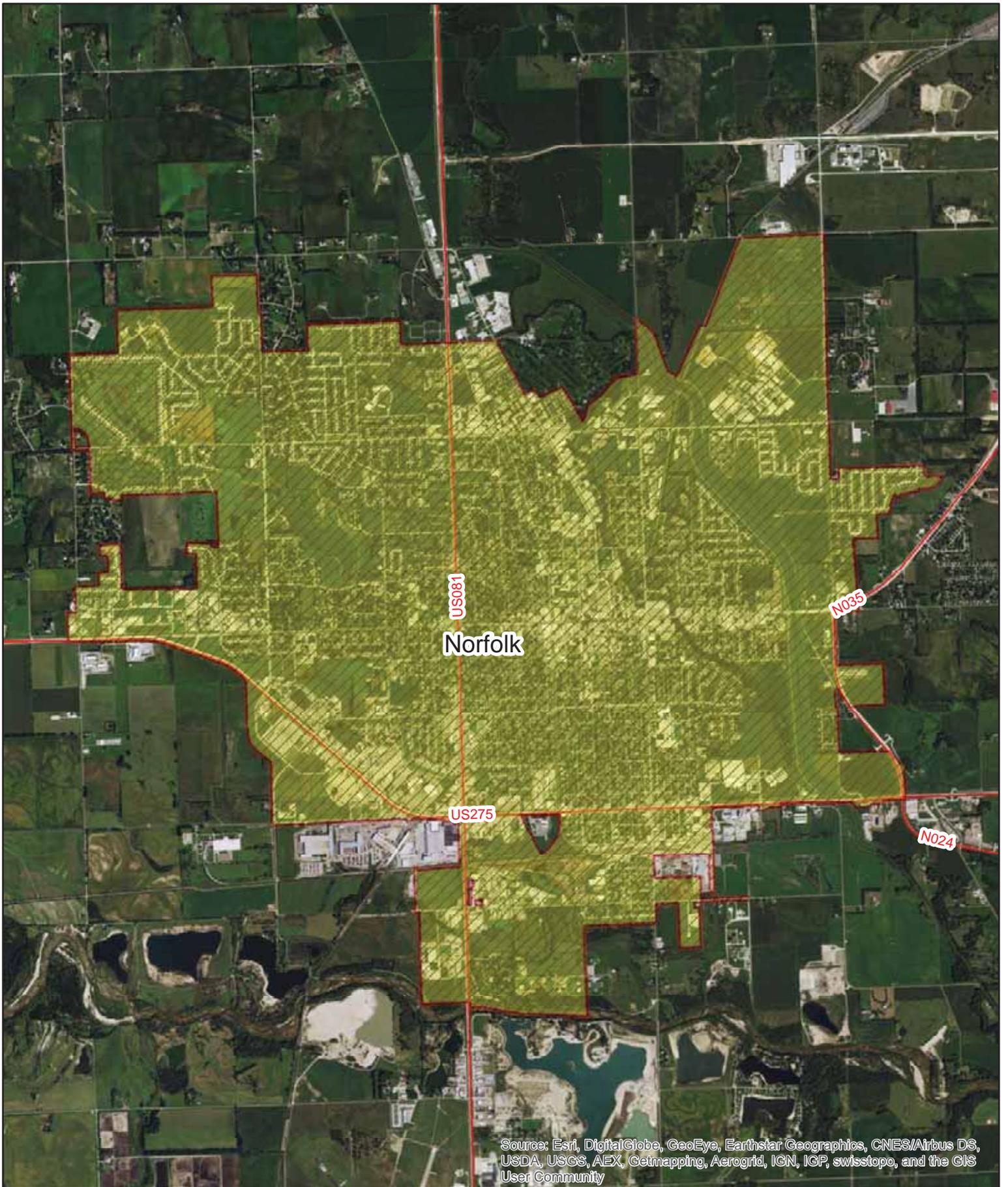
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0 0.5 1 2 Miles

-  Regulated MS4 Boundary
-  NDOR Highway Network

# Columbus

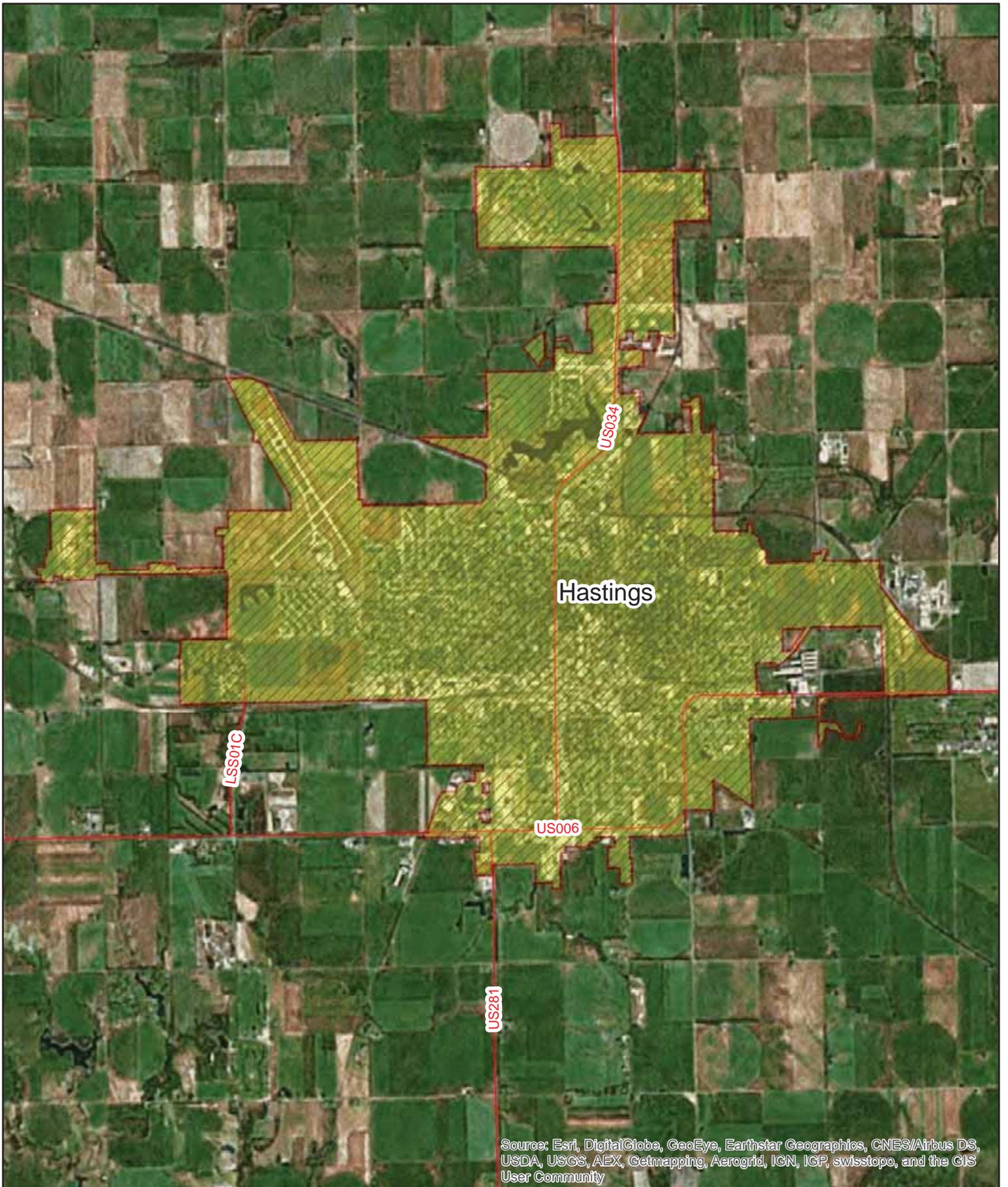
NDOR Regulated MS4 Boundary



-  Regulated MS4 Boundary
-  NDOR Highway Network

# Norfolk

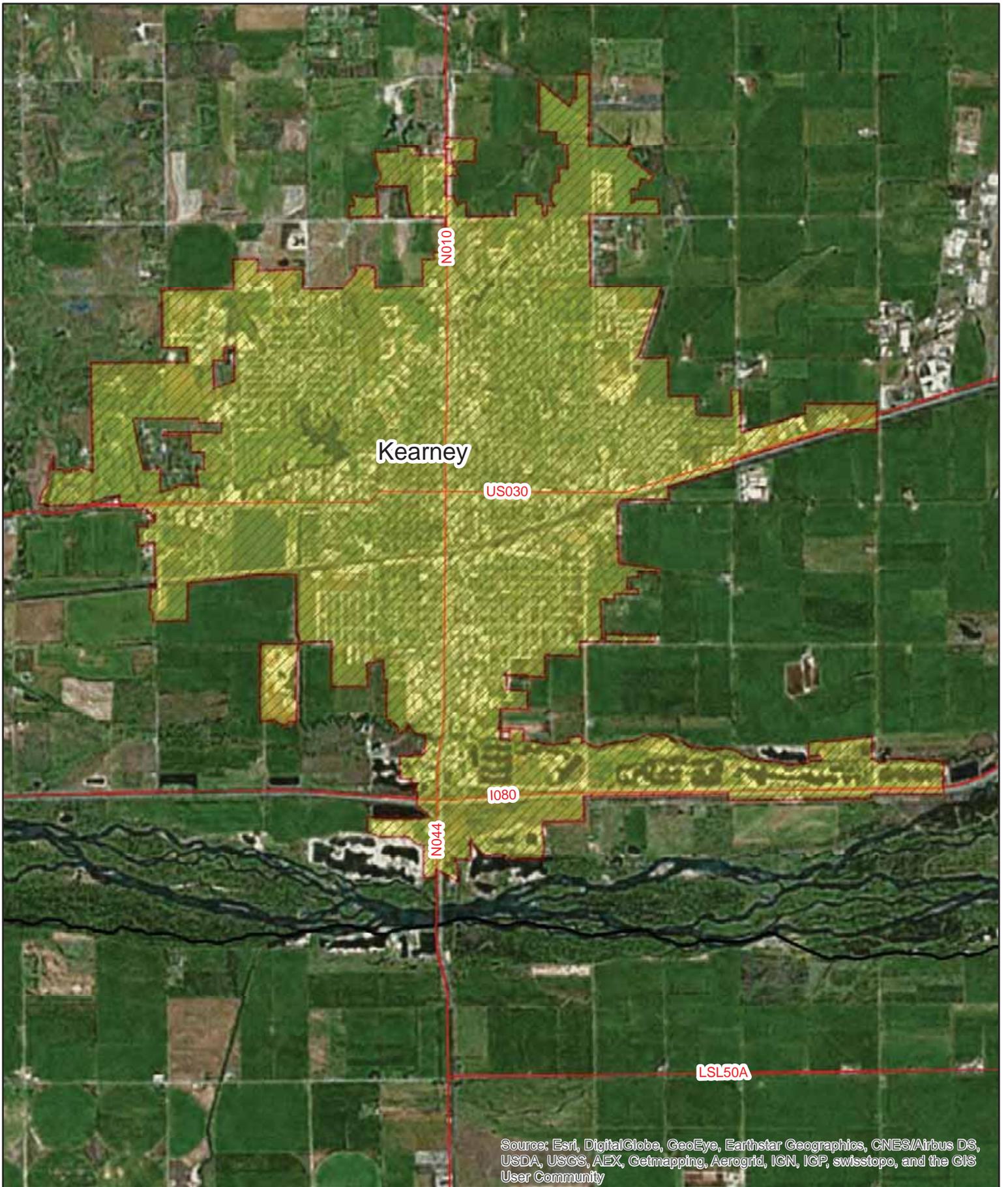
NDOR Regulated MS4 Boundary



-  Regulated MS4 Boundary
-  NDOR Highway Network

# Hastings

NDOR Regulated MS4 Boundary



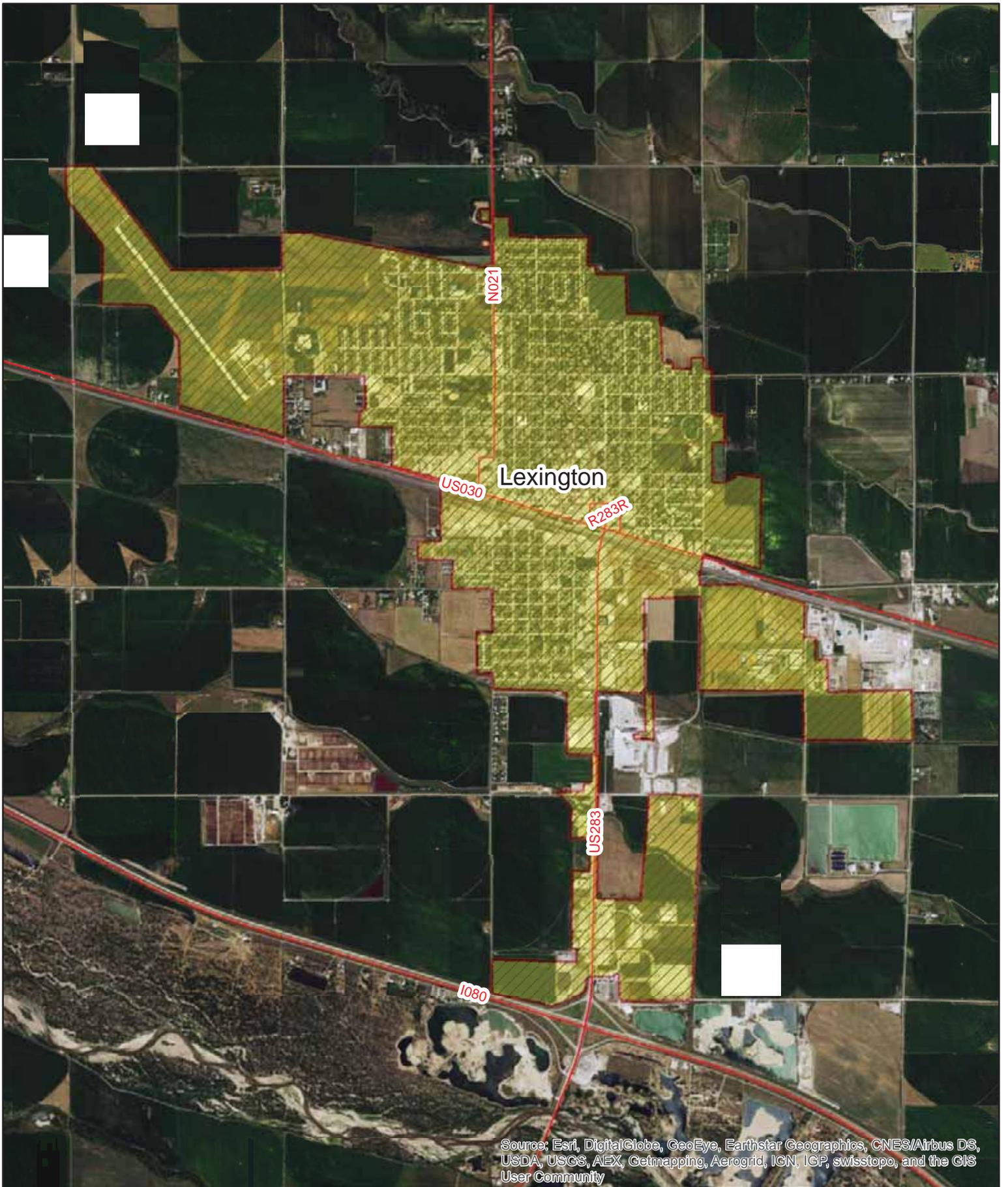
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



-  Regulated MS4 Boundary
-  NDOR Highway Network

# Kearney

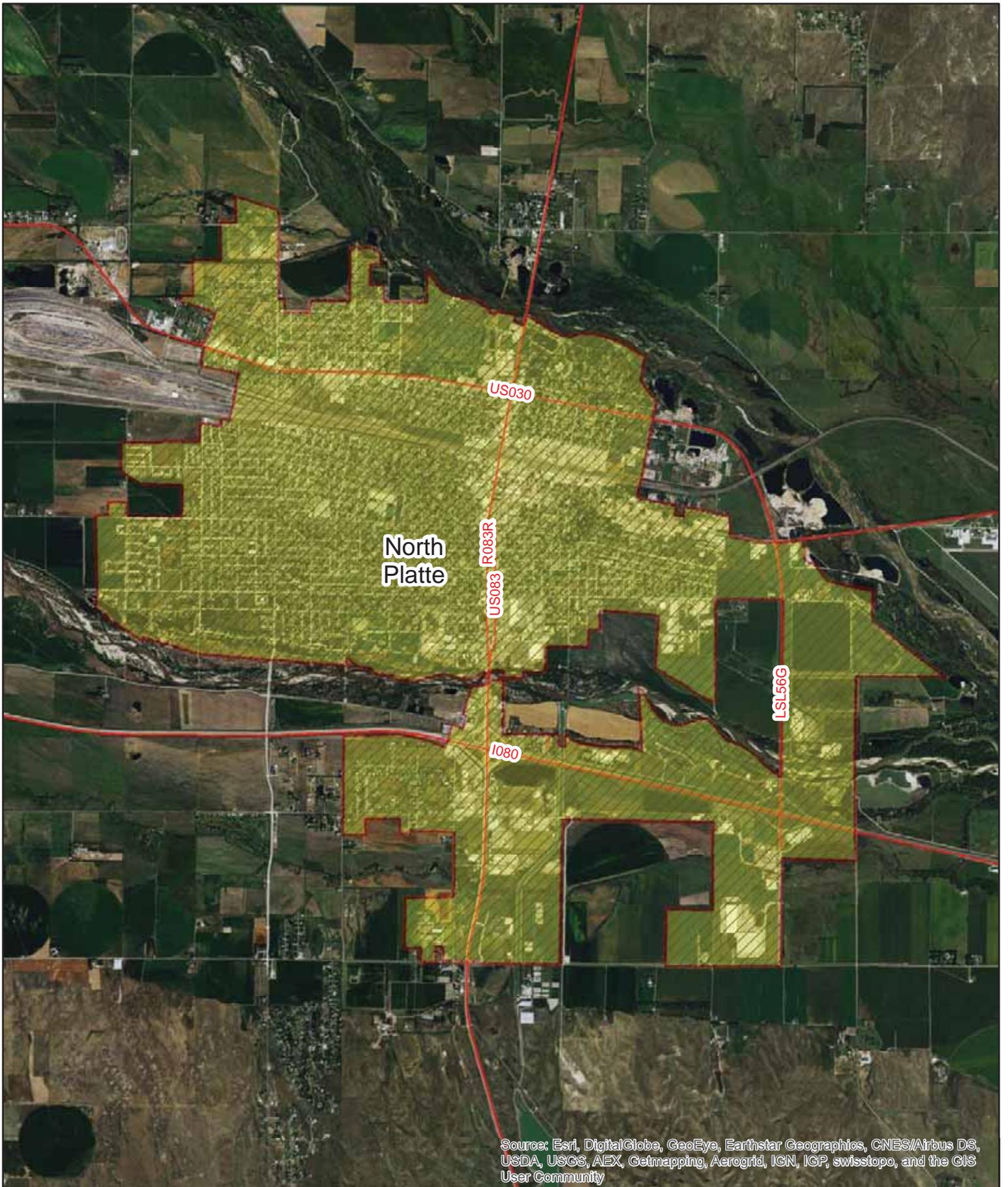
NDOR Regulated MS4 Boundary



-  Regulated MS4 Boundary
-  NDOR Highway Network

# Lexington

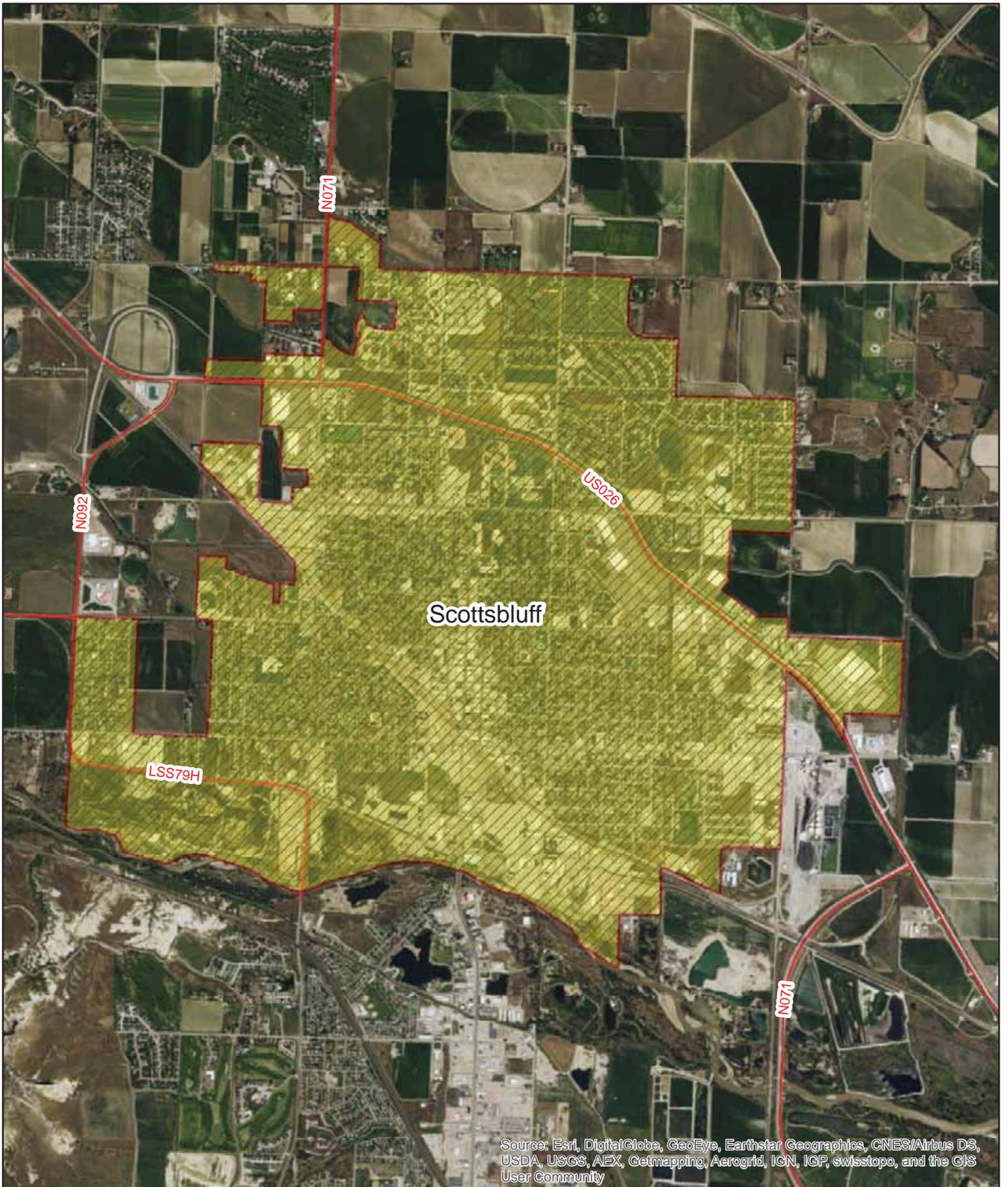
NDOR Regulated MS4 Boundary



-  Regulated MS4 Boundary
-  NDOR Highway Network

# North Platte

NDOR Regulated MS4 Boundary



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0 0.375 0.75 1.5 Miles

-  Regulated MS4 Boundary
-  NDOR Highway Network

# Scottsbluff

NDOR Regulated MS4 Boundary



**APPENDIX B: 2014 - 2015 STORMWATER ACTIVITIES AND EVENTS**

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
1/11/14, Lincoln, CTAG Stormwater Meeting	NDOR Employees	13 Attendees	Quarterly stormwater meeting of the MS4 Compliance Technical Advisory Group	X	X	X	X	X
1/23/2014, Norfolk, D3 Environmental Meeting	NDOR D3 Construction Project Managers and Inspectors	Approx. 40 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
1/23/2014, Norfolk, D8 Environmental Meeting	NDOR D8 Construction Project Managers and Inspectors	Approx. 25 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/3/2014, North Platte, D6 Environmental Meeting	NDOR D6 Construction Project Managers and Inspectors	Approx. 40 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/4/2014, Scottsbluff, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	22 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
2/4/2014, Gering, D5 Environmental Meeting	NDOR D5 Construction Project Managers and Inspectors	Approx. 30 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/5/2014, Holdrege, D7 Environmental Meeting	NDOR D7 Construction Project Managers and Inspectors	Approx. 35 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/6/2014, Grand Island, D4 Environmental Meeting	NDOR D4 Construction Project Managers and Inspectors	Approx. 40 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
2/7/2014, Lincoln, Environmental Training for New Maintenance Supervisors	NDOR Maintenance Supervisors	Approx. 14 NDOR Employees.	Presentation to New Maintenance Supervisors on Environmental Programs and Requirements for NDOR Facilities.	X	X			X
2/12/2014, Lincoln, D1 Environmental Meeting	NDOR D1 Construction Project Managers and Inspectors	Approx. 45 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/13/2014, Omaha, D2 Environmental Meeting	NDOR D2 Construction Project Managers and Inspectors	Approx. 40 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/19/2014, Omaha, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	24 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
2/25/2014, Holdrege, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	29 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
2/26/2014, Lincoln, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	36 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
2/27/2014, Mahoney State Park, NDOR Stormwater Treatment Design Course	NDOR Designers, Consultant Designers	30 Attendees, Handouts include plan sheets, Chapter 3 of Drainage Manual and Treatment BMP Design Guides	Full day training course to introduce designers to Chapter 3 of the NDOR Drainage Design and Erosion Control Manual titled "Stormwater Treatment within MS4 Communities."	X			X	
3/4/2014-3/6/2014, Kearney, NDOR Project Managers Conference	NDOR Employees and Contractors	Approximately 250 NDOR Employees	Annual Project Managers Conference. Includes presentations on Environmental Related Topics	X		X	X	
3/4/2014, Kearney, District Environmental Coordinators Meeting	NDOR District Environmental Coordinators and HQ Environmental Staff	Approx. 15 NDOR Attendees	NDOR Environmental Programs Coordination Meeting with District Environmental Coordinators	X	X	X	X	X
3/13/2014, Omaha, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	30 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
3/19/2014, Grand Island, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	33 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
4/1/2014, Omaha, Western Assoc. of State Highway Transportation Officials (WASHTO) Conference	DOT Representatives from Multiple States	Approx. 60 – 80 Attendees	NDOR provided presentations on ECO-Database Inspection Program and Stormwater Compliance Program.	X		X	X	
4/14/14, Lincoln, CTAG Stormwater Meeting	NDOR Employees	7 Attendees	Quarterly stormwater meeting of the MS4 Compliance Technical Advisory Group	X	X	X	X	X
4/15/2014, O'Neil, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	30 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
4/29/2014, S Sioux City, NDOR Maintenance Conference	NDOR Employees	Approx. 200 Attendees	Annual NDOR Operations/Maintenance Conference. Environmental topics discussed during general session and breakout session.	X	X			X
5/15/2014, Lincoln, NDEQ Environmental Update Conference	Cities, Counties, Businesses, State Agencies, Consultants	5 NDOR Staff Attended.	Routine Environmental Regulation/Permit Update Meeting hosted by NDEQ.	X	X	X	X	X
5/20/2014, Lincoln, NDOR Stormwater Program Update Meeting	NDOR Administration, Partner Agencies	Approx. 25 Attendees	Presentation to update NDOR administration and Partner Agencies on NDOR's Stormwater Program.	X	X	X	X	X

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
6/9/2014-6/12/2014, Lincoln, Midwest Peer Exchange	Kansas DOT, Iowa DOT, Missouri DOT, Colorado DOT, Minnesota DOT, North Dakota DOT, FHWA	20 Attendees	Midwest DOT meeting coordinated by FHWA to exchange ideas and share stormwater program information.	X	X	X	X	X
7/17/2014, Kearney, NeFSMA Floodplain and Stormwater Mgmt Conference	Consultants, Cities, Counties, NDOR Employees, Regulatory Agencies	5 NDOR Attendees	NeFSMA Stormwater Conference.	X		X	X	
7/16/2014, Kearney, NDOR Stormwater Treatment Design Course	NDOR Designers, Consultant Designers Cities, Counties	34 Attendees, Handouts include plan sheets, Chapter 3 of Drainage Manual and Treatment BMP Design Guides	Full day training course to introduce designers to Chapter 3 of the NDOR Drainage Design and Erosion Control Manual titled "Stormwater Treatment within MS4 Communities."	X			X	
7/29/2014, Lincoln, Environmental Training for New Maintenance Supervisors	NDOR Maintenance Supervisors	Approx. 18 NDOR Employees	Presentation to New Maintenance Supervisors on Environmental Programs and Requirements for NDOR Facilities.	X	X			X
7/29/2014-7/31/2014, Washington DC, AASHTO Stormwater Conference	DOT State Stormwater Representatives	2 NDOR Reps, Approx. 80 Total Attendees	National Stormwater Conference hosted by AASHTO to provide collaboration between state stormwater representatives.	X	X	X	X	X
8/12/2014-8/13/2014, North Platte, District Environmental Coordinators Meeting	NDOR District Environmental Coordinators and HQ Environmental Staff	18 NDOR Attendees	NDOR Environmental Programs Coordination Meeting with District Staff	X	X	X	X	X

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
8/12/2014, Lincoln, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	36 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
9/8/2014, Lincoln, CTAG Stormwater Meeting	NDOR Employees	10 Attendees	Quarterly stormwater meeting of the MS4 Compliance Technical Advisory Group	X	X	X	X	X
9/16/2014, Lincoln, Annual NDEQ MOU Meeting	NDOR/NDEQ/FHWA	Unknown	Discussion of current environmental compliance efforts across the state and proposed changes for 2015.					
9/25/2014, Lincoln, MS4 Audit Webinar	NDOR Employees	5 NDOR Attendees	AASHTO webinar to help DOTs prepare for EPA Audits.	X	X	X	X	X
10/10/2014, Statewide, Winter Maintenance BMP Poster Distributed to Districts	Maintenance Staff	Poster mailed to 153 yards for display	Poster depicts best environmental practices related to salt management at District Maintenance facilities.	X	X			X
11/6/2014, Statewide, EPA Webinar on Winter Deicing Operations	Maintenance Staff	6 NDOR Employees at Central. Distributed link to Districts to watch	EPA Webinar discussing best practices for de-icing operations.	X	X			X
12/2/2014, Mead, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	18 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
12/19/2014, Statewide, Environmental Stewardship Brochure Distributed to NDOR Maintenance Yards	Maintenance Staff	Copies Distributed to Operations and District Management to be distributed within facilities	Educational Brochure related to Environmental Stewardship for NDOR facilities. Information covered includes FRCP, IDDE, SPCC, Tier II, Title 200 and Good Housekeeping.	X	X			X
1/6/2015, Fremont, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	25 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
1/7/2015, Lincoln, ECOD Training for Operations (Hill) Staff	NDOR Facility Inspectors/Supervisors	15 Attendees, ECOD User Guides Distributed	ECOD Training for FRCP Inspectors	X	X			X
1/6/2015, Lincoln, DOMM Meeting	District Operations and Maintenance Managers	8 Attendees	Environmental Stewardship Presentation to District Management.	X	X			X
1/8/2015, Lincoln, NDOR CTAG Stormwater Meeting	NDOR Employees	9 Attendees	Quarterly stormwater meeting of the MS4 Compliance Technical Advisory Group	X	X	X	X	X
1/13/2015-1/14/2015, Grand Island, District Environmental Coordinators Meeting	NDOR District Environmental Coordinators and HQ Environmental Staff	Approx. 18 NDOR Attendees	NDOR Environmental Programs Coordination Meeting with District Environmental Coordinators	X	X	X	X	X
1/22/2015, Norfolk, D3 Environmental Meeting	NDOR D3 Construction Project Managers and Inspectors	Approx. 45 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
1/22/2015, Norfolk, D8 Environmental Meeting	NDOR D8 Construction Project Managers and Inspectors	Approx. 20 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
2/5/2015, Omaha, City of Omaha Erosion Control Seminar	Consultants, Cities, Counties, NDOR Employees, Regulatory Agencies, Contractors	20 NDOR Attendees	Sediment and Erosion Control Seminar hosted by the City of Omaha.	X		X	X	
2/9/2015, North Platte, D6 Environmental Meeting	NDOR D6 Construction Project Managers and Inspectors	Approx. 40 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/10/2015, Gering, D5 Environmental Meeting	NDOR D5 Construction Project Managers and Inspectors	Approx. 30 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/11/2015, Holdrege, D7 Environmental Meeting	NDOR D7 Construction Project Managers and Inspectors	Approx. 35 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/12/2015, Grand Island, D4 Environmental Meeting	NDOR D4 Construction Project Managers and Inspectors	Approx. 40 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
2/26/2015, Omaha, ECOD Training for District 2	NDOR Facility Inspectors/Supervisors	25 Attendees, ECOD User Guides Distributed	ECOD Training for FRCP Inspectors	X	X			X
2/26/2015, Grand Island, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	33 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
3/3/2015-3/5/2015, Kearney, NDOR Project Managers Conference	NDOR Employees and Contractors	Approximately 200 NDOR Employees	Annual Project Managers Conference. Includes presentations on Environmental Related Topics and Environmental Staff attend to collaborate with project staff.	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
3/9/2015, Lincoln, D1 Environmental Meeting	NDOR D1 Construction Project Managers and Inspectors	Approx. 45 NDOR Employees	ECO-Database/Environmental Update Meeting and Training for District Construction Staff	X	X	X	X	X
3/16/2015, Grand Island, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	28 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
3/17/2015, Lincoln, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	45 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
3/19/2015, Lincoln, ECOD Training for Operations Division, D1 and D4	NDOR Facility Inspectors/Supervisors	12 Attendees, ECOD User Guides Distributed	ECOD Training for FRCP Inspectors	X	X			X
3/26/2015, North Platte, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	33 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
4/10/2015, Omaha, District Stand Down	NDOR District Staff	156 Attendees	Presentation on Environmental Compliance.	X	X			X
4/21/2015, S. Sioux City, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	13 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
5/4/2015, Lincoln, CTAG Stormwater Meeting	NDOR Employees	11 Attendees	Quarterly stormwater meeting of the MS4 Compliance Technical Advisory Group	X	X	X	X	X
5/13/2015, Omaha, ECOD Training for D2	NDOR Facility Inspectors/Supervisors	10 Attendees, ECOD User Guides Distributed	ECOD Training for FRCP Inspectors	X	X			X
7/7/2015, Lincoln, NDOR Stormwater Treatment Design Course	NDOR Designers, Consultant Designers Cities, Counties	26 Attendees, Handouts include plan sheets, Chapter 3 of Drainage Manual and Treatment BMP Design Guides	Full day training course to introduce designers to Chapter 3 of the NDOR Drainage Design and Erosion Control Manual titled "Stormwater Treatment within MS4 Communities."	X			X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
7/24/2015-7/25/2015, Lexington, NDOR Tire Amnesty Event	Open to Public	Collected 500 Tons of Used Tires for Recycling.	Event to collect used tires for recycling. 500 tons collected using a grant from the NE Department of Environmental Quality.	X				
8/4/2015-8/5/2015, Valentine, District Environmental Coordinators Meeting	NDOR District Environmental Coordinators and HQ Environmental Staff	16 NDOR Attendees	NDOR Environmental Programs Coordination Meeting with District Staff	X	X	X	X	X
8/11/2015, Lincoln, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	26 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
10/6/2015, Lincoln, Environmental Section Meeting	NDOR Environmental Staff	Approx. 35 NDOR Employees	Routine update meetings to discuss upcoming projects and environmental programs.	X	X	X	X	X
10/6/2015, Grand Island, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	17 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
10/7/2015-10/8/2015, S Sioux City, NDOR Maintenance Conference	NDOR Employees	Approx. 200 Attendees	Annual NDOR Operations/Maintenance Conference. Environmental topics discussed during general session	X	X			X
10/26/2015-10/30/2015, Districts 1,2 and 3, EPA Audit of NDOR MS4 Program	NDOR MS4 Projects and Facilities	Varied	EPA audit of NDOR's MS4 Program (MCM 3,4,5,6). Audit consisted of records review, project and facility site visits.	X	X	X	X	X
11/18/2015, Grand Island, District Environmental Coordinators Meeting	NDOR District Environmental Coordinators and HQ Environmental Staff	15 NDOR Attendees	NDOR Environmental Programs Coordination Meeting with District Staff	X	X	X	X	X
12/8/2015, Lincoln, AASHTO Stormwater Web Forum	NDOR Employees	5 NDOR Attendees	AASHTO Web Forum on Post Construction BMPs and Project Delivery	X			X	
12/14/2015, Lincoln, CTAG Stormwater Meeting	NDOR Employees	12 Attendees	Quarterly stormwater meeting of the MS4 Compliance Technical Advisory Group	X	X	X	X	X

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
12/17/2015, Lincoln, NDOR Erosion Control Inspector Certification Training	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	27 Attendees, Handouts include Erosion Control Presentations & BMP Pocket Guide	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
2014-2015, Online, SPCC Training	NDOR Maintenance/Operation Staff	97 Attendees	Online Spill Prevention Control and Countermeasure Training.	X	X			X
2014-2015, Statewide, Erosion Control Training (Classroom)	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	521 Attendees	Erosion Control Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
2014-2015, Statewide, Erosion Control Training (Online)	Businesses, Contractors, Consultants, Municipalities, NDOR Employees, Utilities	325 Attendees	Erosion Control Re-Certification Course Sponsored by NDOR and Nebraska Local Technical Assistance Program (NE-LTAP)	X		X	X	
Routine Environmental Bulletin Distributed: Spring 2014, Summer 2014, Fall 2014, Winter 2015, Spring 2015	Contractors and NDOR Construction Staff	Approx. 200-500 people receive the Environmental Bulletin	Routine news bulletin to provide project managers and district environmental staff with current permit requirements, training opportunities and other environmental related guidance.	X		X	X	

Date, Location, Event	Target Audience	Attendance and Materials Distributed	Description	MS4 Program Addressed				
				Water Quality	IDDE	CSW	PCSW	PP/GH
Spring and Summer 2014 Environmental Bulletin Distributed	Contractors and NDOR Construction Staff	Approx. 200-500 people receive the Environmental Bulletin	Routine news bulletin to provide project managers and district environmental staff with current permit requirements, training opportunities and other environmental related guidance.	X		X	X	
Ongoing: Routine Post Construction CTAG Workgroup Meetings	NDOR Post Construction Program Work Group	6 NDOR Employees, 2 Consultant Employees	Regular Meetings to develop Chapter III of Erosion Control and Drainage Design Manual and Draft Treatment BMP Design Guides.	X			X	
Ongoing: Bi-Weekly MS4 Workgroup Meetings	NDOR Post Construction Program Work Group	6 NDOR Employees, 2 Consultant Employees	Regular Meetings to develop Chapter III of Erosion Control and Drainage Design Manual and Draft Treatment BMP Design Guides.	X			X	
Ongoing: Bi-Weekly ECOD Meetings	NDOR Staff/MS4 Consultant	2-6 Attendees	Routine MS4/ECOD development meetings.	X	X	X	X	X
Ongoing: NDOR Environmental Website Outreach	NDOR employees and the general public	Approx. 27,000 hits per month.	Contains information related to the Environmental Section. Training/Guidance Documents/Forms etc.	X	X	X	X	X

**APPENDIX C: CURRENT NDOR NPDES PERMITTED PROJECTS WITHIN MS4 AREAS**

<b>PROJECT NAME</b>	<b>PROJECT NUMBER</b>	<b>NPDES AUTHORIZATION #</b>	<b>PROJECT STATUS</b>
NW 56TH - US-77 S. INTERCHANGE, LINCOLN	IM-NH-80-9(862)	NER114214, NER114213	Construction
LINCOLN EAST	NH-HSIP-34-6(141)	NER114086	Establishment
GRETNA EAST	STPD-370-7(119)	NER111937	Establishment
I-80/480 - 60TH ST (WB)	S-80-9(1185)	NER113962	Establishment
126TH - 96TH ST, OMAHA	S-80-9(1189)	NER113961	Establishment
N OF CENTER ST - PACIFIC ST (NB), OMAHA	S-680-9(1190)	NER113960	Establishment
MISSOURI RIVER BRIDGE APPROACH, BELLEVUE	NH-34-7(118)	NER112498	Establishment
PLATTSMOUTH - BELLEVUE, NORTH OF PLATTE RIVER	S-75-2(1067)	NER112834	Construction
PLATTSMOUTH - BELLEVUE, PLATTE RIVER & SOUTH	NH-75-2(173)	NER112735	Establishment
144TH STREET, WEST DODGE - FRANKLIN, OMAHA	STPC-5001(15)	NER112555	Establishment
Ralston Viaduct	NH-85-2(111)	NER115479	Not started
N-92 EAST	RD-275-7(1041)	NER113506	Establishment
US-75 WEST IN BELLEVUE	NH-370-7(126)	CSW-201600093	Construction
EB I-80 TO NB I-680 BRIDGES, OMAHA	STR-80-9(1200)	NER115023	Construction
37TH ST - NORFOLK AVE, NORFOLK	HSIP-275-5(143)	NER114852	Construction
NORFOLK NORTHEAST	DPS-35-3(108)	NER113442	Construction
IN COLUMBUS	RD-30-5(1044)	NER114091	Establishment
KEARNEY WEST	STP-HSIP-30-4(154)	NER115345	Construction
1ST ST - 6TH ST, NORTH PLATTE	NH-83-2(128)	NER114568	Establishment
IN LEXINGTON	STP-21-2(111)	NER114853	Construction



**APPENDIX D: CURRENT RESEARCH PROJECTS**

Research Topic	Description	Status	2014 Expenditure
Development and Evaluation of BMPs for Highway Runoff Pollution Control	The goal of this research was to develop and evaluate BMPs that rely on bioretention, infiltration, and slow conveyance of stormwater, to ultimately provide improved water quality. The first objective was to find the combinations of native plant species and growth media that could be sustainable (cost and maintenance effective), while treating the first 0.5” Water Quality Volume. The second objective was to test the feasibility of using shredded tires as an available porous media in structural stormwater treatment BMPs such as infiltration and bioretention systems (BRSs), as well as aggregate media.	100% Completed	\$32,669.50
Passive Stormwater Samplers for Sampling Highway Runoff from BMPs: Feasibility Study	The objective of this research was to provide an overview and recommendation of samplers that would be optimal for the parameters of this project.	100% Completed	\$25,654.89
Diamond Grinding Slurry	Diamond grinding of highway surfaces is a one-time maintenance operation to extend the highway surface life. Concrete grinding residue (CGR) is the byproduct of diamond grinding and has high pH, calcium, potassium, magnesium, and sodium concentrations and small particle size. Disposal of CGR in Nebraska in 2012 changed from unregulated roadside discharge to needing a National Pollutant Discharge Elimination System (NPDES) permit. NDOR needs information regarding the application rates of CGR to roadsides that will maximize the weight applied to a given area, thus minimizing transportation costs for disposal, without causing detrimental impacts to soils properties (chemical and physical) or roadside vegetation.	In progress 75% completed	\$34,374

Research Topic	Description	Status	2014 Expenditure
Study of Bridge Deck Runoff from NDOR Highways	The objective of this research is to evaluate the quality of bridge deck runoff, and to determine the effects of bridge deck runoff on surface water bodies in Nebraska by evaluating water and sediment chemistry, as well as their effects on aquatic life. The goal of this research project is to identify the potential environmental impacts of bridge deck runoff on receiving streams, and to determine design criteria that can be used by NDOR or regulatory agencies to identify when structural controls for bridge deck runoff may be necessary to protect in-stream water quality and aquatic life.	Phase I complete. Phase 2 at 99% complete. Waiting for final report	\$110,732
Improving Wildflower Longevity in Roadside Seeding Areas	This study will test strategies for establishing and maintaining wildflowers in roadside vegetation stands. Wildflower establishment techniques will be tested in areas of new construction, and wildflower persistence will be tested by seeding into established stands of roadside vegetation and applying management practices such as mowing and interseeding. Drought conditions prevented installed plots from being successful in 2012 and 2013. New sites were selected and developed for the 2014 growing season.	40% complete	\$24,260
Identifying and Addressing Soil Property Issues Affecting Roadside Vegetation Establishment	This study will identify chemical and physical factors that lead to poor vegetation growth on roadway shoulders, especially within 2 feet of the pavement edge. Secondly, the research team will test for and recommend actions or material selections for new construction and remediation. These options may include engineering or biological approaches to improve soil conditions for improved plant growth for shoulder stabilization.	29% complete	\$2,165.56

Research Topic	Description	Status	2015 Expenditure
Improving Wildflower Longevity in Roadside Seeding Areas	This study is testing strategies for establishing and maintaining wildflowers in roadside vegetation stands. Wildflower establishment techniques are being tested in areas of new construction, and wildflower persistence is being tested by seeding into established stands of roadside vegetation and applying management practices such as mowing and interseeding. Drought conditions prevented installed plots from being successful in 2012 and 2013. New sites were selected and developed for the 2014 growing season, and researchers continue to gather data.	60% complete	\$14,684.23
Identifying and Addressing Soil Property Issues Affecting Roadside Vegetation Establishment	This study has identified chemical and physical factors that lead to poor vegetation growth on roadway shoulders, especially within 2 feet of the pavement edge. Secondly, the research team is performing tests to recommend actions or material selections for new construction and remediation. These options may include engineering or biological approaches to improve soil conditions for improved plant growth for shoulder stabilization.	85% complete	\$33,137.95
Diamond Grinding Slurry	Diamond grinding of highway surfaces is a one-time maintenance operation to extend the highway surface life. Concrete grinding residue (CGR) is the byproduct of diamond grinding and has high pH, calcium, potassium, magnesium, and sodium concentrations and small particle size. Disposal of CGR in Nebraska in 2012 changed from unregulated roadside discharge to needing a National Pollutant Discharge Elimination System (NPDES) permit. NDOR needs information regarding the application rates of CGR to roadsides that will maximize the weight applied to a given area, thus minimizing transportation costs for disposal, without causing detrimental impacts to soils properties (chemical and physical) or roadside vegetation.	100% completed	16,373.78\$



**APPENDIX E: NDOR ANNUAL MS4 BUDGET**

	<b>2014 Expended</b>	<b>2015 Expended</b>	<b>2016 Budgeted</b>
Education and Public Involvement	NDOR Staff: \$47,000 MS4 Consultant: \$104,000	NDOR Staff: \$47,000 MS4 Consultant: \$130,000	NDOR Staff: \$47,000 MS4 Consultant: \$120,000
Illicit Discharge	NDOR Staff: \$46,000	NDOR Staff: \$46,000	NDOR Staff: \$46,000
Construction Stormwater	NDOR Staff: \$160,000 MS4 Consultant: \$100,000 On-Call Consultants: \$29,000	NDOR Staff: \$160,000 MS4 Consultant: \$95,000 On-Call Consultants: \$20,000	NDOR Staff: \$160,000 MS4 Consultant: \$100,000 On-Call Consultants: \$20,000
Post-construction Stormwater	NDOR Staff: \$38,000 MS4 Consultant: \$40,000	NDOR Staff: \$38,000 MS4 Consultant: \$48,000	NDOR Staff: \$38,000 MS4 Consultant: \$50,000
Good Housekeeping	NDOR Staff: \$29,000 MS4 Consultant: \$63,000	NDOR Staff: \$29,000 MS4 Consultant: \$35,000	NDOR Staff: \$29,000 MS4 Consultant: \$50,000
Program Management	NDOR Staff: \$25,000 MS4 Consultant: \$40,000 Research \$230,000	NDOR Staff: \$25,000 MS4 Consultant: \$50,000 Research: \$66,000	NDOR Staff: \$25,000 MS4 Consultant: \$50,000 Research: \$100,000
<b>Total MS4 Program Cost</b>	<b>\$951,000</b>	<b>\$789,000</b>	<b>\$835,000</b>