City of Marion, Iowa

2017 ANNUAL REPORT
September 29, 2017

STORMWATER POLLUTION
PREVENTION & MANAGEMENT
PROGRAM

NPDES PERMIT NUMBER: 57-51-0-02

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Introduction

The City of Marion has completed its twelfth year of the Storm Water Pollution Prevention and Management Program as outlined in the City’s NPDES permit number 57-51-0-02. This annual report will outline and discuss the activities the city has performed in the past year to meet the requirements of the permit.

Marion is one of the Midwest’s fastest growing cities. Located in Linn County just minutes north of Cedar Rapids, Marion prides itself on being the best place in Iowa to raise a family and grow a business. Our city’s slogan is Reach higher and achieve more in Marion. With a current population of 38,023 and covering 17.5 square miles within the corporate limits, Marion is situated almost entirely within the Indian Creek Watershed, which discharges eventually to the Cedar River just south of the Cedar Rapids Central Business District and just north of US Highway 30.

2016 and 2017 have been extremely active years for growth and construction for Marion. We have been managing this growth partly through the utilization of a new integrated online system for project planning, permit tracking, and code enforcement called New World Community Development Software. This system automates tasks and make licensing and permitting processes more efficient. It allows Marion staff across multiple departments to track and access all related information from a single screen, including blueprints, maps, permits, code enforcement activities, address information and historical information. In addition to improving citizen service, the software will streamline workflow processes to help improve enforcement of NPDES and MS4 regulations. The software “went live” on September 6th, 2016, and is currently being used by the Marion Engineering, Building, Planning, and Finance Departments.

As Marion’s Stormwater Coordinator, I am responsible for compliance with the six Minimum Control Measures as defined in our NPDES permit:

- Public Education & Outreach
- Public Involvement & Participation
- Illicit Discharge Detection & Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management
- Pollution Prevention/Good Housekeeping

Additionally, I am responsible for responding to and investigating requests from residents, often times acting as mediator to facilitate solutions between private property
owners. Significant time and effort is required on a daily basis to interact with developers, builders, contractors, businesses, and homeowners, educating them on stormwater pollution prevention requirements, the Iowa Drainage Law, and best management practices that help to reduce stormwater runoff and improve water quality.

**Stormwater Utility**

The City of Marion continues to successfully administer an ERU (Equivalent Runoff Unit) based Stormwater Utility, which was implemented in October 2013. This ERU based system has been proven to be an equitable method of determining and collecting stormwater fees in that larger properties with greater amounts of impervious surfaces have a greater impact on stormwater runoff than properties that are smaller and/or have less impervious surfaces. Consequently, the larger properties have a larger Stormwater Utility Fee.

Impervious areas for these non-residential parcels were digitized using aerial photography and parcel data in both CAD and GIS, and this data is updated regularly using building permit information, recent aerial photography, and construction plans for new development.

The base ERU for Marion is 2,791 square feet, which is the statistical average impervious area of the residential living units within the City of Marion. The Stormwater Utility rate is $1.59 per ERU. Residential monthly charges are 1 ERU plus a $3.33 administrative service charge, or $4.92 per month. Stormwater Utility fees for non-residential parcels (Commercial, Industrial, and Multi-Family 5-Units or more) are calculated based on the parcel impervious area divided by the ERU times $1.59 plus a $3.33 service charge. There is a maximum monthly charge of $156.80 for any individual property. The City uses revenue from the Stormwater Utility to finance stormwater related capital improvements and initiatives that support our NPDES programs.

Stormwater Utility fees are collected through Marion water bills. However, owners of parcels that have impervious surfaces with no water account associated with them – such as parking lots – receive their bills as an invoice from the Marion Finance Department.

Non-residential parcels with storm water controls and Best Management Practices may be eligible for a credit on their Stormwater Utility Fee. Owners of a non-residential property with a detention basin controlling the quantity of water running off their site are eligible for a credit of up to 25% off their Stormwater Utility Fee. If the detention basin also treats the quality of water running off their site, the owner is eligible for another 25% off their Stormwater Utility Fee. Other Best Management Practices such as pervious pavers, bio-retention cells, or infiltration trenches can provide up to an additional 15% off Stormwater Utility Fees. The maximum credit for any property is 65%. The intent of the credit system is to encourage and reward those parcels who manage their stormwater in efficient, effective ways and to motivate others to do the same.

Property owners of non-residential parcels who are not currently getting a credit but believe they have proper stormwater controls have an opportunity to submit an application for credit. Marion has a Stormwater Utility Credit Committee to review these
applications and, if warranted, award this credit. Although residential accounts are not eligible to receive a credit on their Stormwater Utility Fee, the City of Marion implemented a rebate program for residential property owners who install rain gardens, rain barrels, or soil quality improvements. This program is described below.

Additionally, a property owner receiving a Stormwater Utility Fee can apply for an adjustment to their fee if they believe that the amount of impervious surface has changed, or if they would like their bill to be sent to a different mailing address.

As required in our Stormwater Utility Ordinance, a working group made up of Marion residents was developed to provide review of applications for credits and adjustments by non-residential properties. Members of the Stormwater Utility Credit Committee are appointed by City Council members and are educated on stormwater runoff issues and stormwater Best Management Practices. The Committee meets as necessary when credit applications are submitted. We did not receive any applications for Stormwater Utility credits since last year’s report, so the committee did not need to meet.

**Residential Stormwater Best Management Practices**

The City of Marion also continues the Residential Cost-Sharing Program to promote the construction of stormwater BMPs such as rain gardens, rain barrels, and soil quality restoration to capture and infiltrate stormwater in residential areas. Residential properties in Marion are not eligible for credits – or discounts – on their Stormwater Utility Fee. This program would reduce stormwater runoff, improve water quality, and increase local awareness of the importance of protecting our local streams and lakes.

Residents who install a rain barrel on their property are eligible to receive a one-time rebate of up to $50 per residence. Residents who install soil quality restoration on their property are eligible to receive a one-time rebate of up to $350 per residence. Residents who install a rain garden on their property are eligible to receive a one-time rebate of up to $400 per residence.

The one-time rebate will be granted to applicants after inspection of the BMP by a city staff member certified as Iowa Certified Inspection and Maintenance Program for Stormwater Practices (ICIMPS). Future routine inspections will then be made by city staff to ensure the BMPs are functioning properly.

The annual budget for the first year of this program is $5,000. Depending on program participation, this amount can be increased.

**Web-based Inspection System**

The City of Marion continues to utilize the mobile web-based Fulcrum inspection application to meet the needs of complete reporting and documentation of inspections related to MS4 program management and General Permit #2 stormwater pollution prevention. Fulcrum is a fully customizable GPS enabled web-based application for inspections and inventory data collection for SWPPPs, detention basins, outfalls, manholes, sidewalks, street signs, and more.
Several industry specific templates are available to use as-is, or they can be revised to meet a user’s specific needs. Forms can also be developed completely from scratch. Although there was an available template for construction site erosion and sediment control, a custom inspection app was developed based on specific guidelines and requirements of the IDNR’s General Permit #2, Marion’s MS4 permit, and the Iowa Department of Transportation.

In addition to a map showing the location of all inspections, reports can be generated that include the details – including photos – of each inspection. Reports can be saved as PDF for records management or to provide to permit holders or property owners to notify them of any required corrections that need to be made to stormwater controls. Data can also be exported for use in other databases, spreadsheets, GIS applications, or for data archiving.

More information on Fulcrum can be found on its website www.fulcrumapp.com. Sample reports of Marion’s inspections of outfalls, stormwater controls, and construction site SWPPPs can be found in Appendix B of this stormwater report.

**Finances**

The City had expenditures in the amount of $14,691.16 last year out of the Stormwater Pollution Prevention and Management Program account. This would include costs for training seminars, publications, meeting room expenditures, and the Iowa Stormwater Education and Outreach Program. The City budget for the coming year is $15,000.00, of which $7,500.00 is earmarked for residential stormwater Best Management Practices rebates.

The above amount does not include any staff time to create and administer our Stormwater Pollution Prevention and Management Program. Our staff salary in dollars devoted to this program is approximately $220,000.00.

The expenditure amount also does not include the donation of meeting rooms by Marion for organizations such as the Indian Creek Watershed Management Authority or the Iowa Stormwater Education Partnership.

Respectfully submitted,

Steve Cooper, GISP, ICCSPPI, ICIMPSP
Stormwater Coordinator, City of Marion
Part A: Public Education and Outreach

General Stormwater Education Brochures

The City of Marion receives support and information from the Iowa Stormwater Education Program (ISWEP). They continue to produce multiple informational stormwater management brochures to assist in educating the public and businesses served by Marion. The brochures, pamphlets, and bookmarks are available for the public to pick up at the Marion City Hall. Stickers, wipe on tattoos, coloring books, and pencils with stormwater themes supplied by ISWEP are available for children at the Engineering front desk.

Between the roll-out date of Marion’s New World permit management software in September 2016 and the publishing of this report, the City of Marion processed 265 new single family or multifamily building permits. Brochures and information packets are provided to builders and developers including information on stormwater pollution prevention, erosion and sediment controls, concrete washout use, and stormwater tips for swimming pool owners. A document called “Putting FAIR into Action: Recommended Guidelines for Infiltration-Based Practices to Achieve Better Water Quality in Metro Area Communities” is provided to all property owners who are in need of stormwater management guidance on their property. This booklet provides options on how to detain the 1” rain event over the site.

Telephone Hotline Number & Stormwater Web Page

The telephone number for Marion’s stormwater hotline is (319) 743-6340 and is listed on the City’s website. The phone number routes all calls to the Engineering Department. When a call is received, a complaint/investigation form is filled out by our administrative assistant and passed along to an inspector to follow up on the caller’s complaint or general question. Long-term issues that cannot be resolved right away on site are logged into a drainage complaint spreadsheet so they can be tracked.


Marion’s Stormwater Management web page has links to www.iowasudas.org, www.jamu.org, www.rainscapingiowa.org, and www.iowastormwater.org where the latest methods of BMP’s are available. The booklet called “Putting FAIR into Action: Recommended Guidelines for Infiltration-Based Practices to Achieve Better Water Quality in Metro Area Communities” is available to download. In addition, two instructional videos are posted to show what citizens can do to help maintain and protect Marion’s streams.

A printable form is available on this site to report illegal or illicit discharges of non-stormwater that is sent to the Engineering Department.
WORKSHOPS, CERTIFICATIONS, AND PUBLIC EVENTS

Iowa Stormwater Education Partnership

The City of Marion continues its leadership role in the Iowa Stormwater Education Program by serving on its Board of Directors and committees that work to further develop certifications and policies for water quality improvement and construction site stormwater pollution prevention. ISWEP separated from the Iowa Association of Municipal Utilities in early 2016, which provided an opportunity for the City of Marion to take a more active role with the organization. Marion’s ISWEP Board Representative attends several meetings each year for administration, training and development, and strategic planning.

Iowa Stormwater Summit and Iowa Certified SWPPP Designer Workshop

The City of Marion was host to ISWEP’s second annual Iowa Stormwater Summit, held at Squaw Creek Park’s Red Cedar Lodge on December 6th and 7th 2016. This summit was a combination of conference and training, and attendees had the opportunity to learn about how stormwater is being managed in communities across Iowa, network with community leaders and get updates from IDNR, and what to anticipate in the coming year.

Day 1 of the Summit included topics such as:

- Iowa Drainage Law in an Urban Context
- Mapping, Stories, and Green Infrastructure from the Iowa Economic Development Authority
- Stormwater solutions in public Right-Of-Way
- Technological Resources for Stormwater

Day 2 of the Summit was the workshop for the newly developed Iowa Certified SWPPP Designer. Marion participated in the development of a statewide Certification Program by ISWEP for those who prepare, design, review and approve SWPPPs in Iowa. The need for this ICSD certification was identified at the Stormwater Pollution Prevention Plan Design and Preparation Workshop, which was developed by ISWEP and hosted by the City of Marion at the Lowe Park Center in April 2015. Training content includes all facets of the SWPPP Design process from the first disturbance of soil to sodding or seeding and everything in between. Participants learn what is expected as they develop or review the SWPPP, which guides construction site runoff control and post-construction stormwater management including:

- NPDES & GP#2, Rules, Regulations & Required Documentation
The City of Marion participated in the discussion determining funding procedures for the Linn County Water and Land Legacy Bond. This meeting was held at the Wickiup Hill Learning Center on January 4th. Linn County was asking for input from area leaders to shape the vision of how best to develop water quality projects that will have the greatest impact for Linn County. Among the topics discussed were water quality goals and priorities, current initiatives in the area, and potential opportunities for partnerships.

**Letter to Concrete Companies**

In response to notice from the EPA about “sweeps” they may be conducting in Iowa looking for proper concrete handling procedures, the City of Marion spearheaded the development of a letter that was sent to more than 70 companies in the region that work...
with concrete. Stormwater officials in Cedar Rapids, Hiawatha, and Robins cosigned this letter.

This letter is included in Appendix B, as well as the list of companies the letter was sent to. This letter was also offered to ISWEP to be used by other cities.

**Ninth Annual Watershed Management Symposium**

Marion attended the Ninth Annual Watershed Management Symposium Urban & Agricultural Collaborations that was held on February 8th and 9th 2017 in Dubuque. This year’s symposium focused on both urban and agricultural ecosystem challenges as they relate to water quality and flooding. The symposium featured a diverse group of speakers and topics such as:

- Adoption of a progressive stormwater ordinance.
- Green infrastructure in urban transportation corridors
- Real-time Monitoring of Rivers, Streams, and BMPs
- Protecting Source Water in Agricultural Watersheds
- The Principles of Soil Health
- Soil Quality Restoration Community Grant Program
- Roundtable Discussions on Economic considerations, changes, and innovations in watershed management projects
- The Development of Iowa Nutrient Reduction Exchange
- Sustainable Iowa Land Trust (SILT)

**Plan Review & Approval processes Workshop**

Marion hosted a workshop on April 7th at City Hall to engage the development community on building and erosion control permits. The objective of the workshop was to develop clear understanding of review and approval processes along with a unified building and engineering requirements’ checklist. We also were seeking to improve the quality of plan submittals to avoid delays and complications once construction begins.

The topics covered in the workshop were:

- Discussion of the process and requirements for building permit applications
- Discussion of soil erosion and sediment control and stormwater pollution prevention regulations
- Describe plan review checklists and the complete set of drawings required for plan submittals
- Seeding and top soil requirements
- Recurring violations and communication
- Get feedback from the development community

Forty-four members of the Marion development community attended the meeting representing the following companies:

- Abode Construction
- Adam Stradt Construction LLC
- B Hancock Construction
- Academy Homes
- Ambient Outdoor Creations
- Ben Heath Construction
Capital Builders    Champion Custom Homes
Dahl Custom Homes    Davidson Homes
Donohoe Custom Homes    Frazier Homes LLC
Gangestad Custom Homes LLC    ICON Builders LLC
Integrity Custom Homes    J Murphy Homes
JW Home Builders    K & A Homes LLP
Mooney-Engle Land Company LLC    Morris/Wood
Platinum Development LLC    Platten Construction
Prestwick LLC    Rinkenberger Homebuilders
Robson Homes    Select Construction
Skogman Homes    ST Homes
Legacy Homes of Eastern Iowa LLC    Burger Homes & Development Inc
Casey Johannes Construction INC    Dream Builders of Iowa LLC
Legacy Developers INC    Martin Combs Custom Homes

2017 Iowa Water Conference

The City of Marion again attended the Iowa Water Conference held on March 22-23, 2017 at the Scheman Building in Ames, Iowa. This year’s theme was “Watershed Management: Partnerships for Progress,” to promote water resource management from a watershed perspective. Work in water often crosses the border of different towns, cities, and counties. The decisions made within these different entities have implications for urban and rural citizens at the local level. Presentations were centered on telling the success stories and lessons learned from new and continuing water partnerships among a variety of organizations. The conference agenda also included updates on the latest approaches to water management from an assortment of scientific sources.

The Iowa Water Conference is organized through a collaborative effort among Iowa-based institutions, government agencies, and natural resource organizations whose representatives serve on the planning committee, led by the Iowa Water Center. The conference serves as a centralized meeting place for the variety of stakeholders involved in water. The conference draws approximately 400 attendees who learn and discuss issues related to research, outreach, conservation, and policy.

IDNR Regions 1 & 6 MS4 Program Meeting

On Thursday April 13th, the City of Marion hosted a meeting at Lowe Park Pavilion for stormwater officials from the Iowa Department of Natural Resources and cities designated by IDNR as Municipal Separate Storm Sewer Systems (MS4) in eastern Iowa. The objective was to promote a working relationship that will enable MS4 cities and IDNR to effectively and consistently implement programs for the National Pollutant Discharge Elimination System (NPDES) and the IDNR General Permit #2 for Construction Activities. Topics covered
and discussed in this meeting included complaint investigation procedures, topsoil and stabilization requirements, MS4 assistance visits, GP#2 enforcement, and implementing higher compliance expectations. Nearly 50 representatives from IDNR, eastern Iowa cities, utility companies, and the development community attended the meeting to discuss policies for reducing stormwater runoff and improving water quality.

**EPA and IDNR “What to expect during an EPA audit of your MS4”**

On April 25th Marion participated in the presentation hosted by the Iowa DNR in Windsor Heights on the topic "What to expect during an EPA audit of your MS4”. This presentation was for stormwater managers throughout the state to learn about the MS4 Stormwater Permit audit process and steps that can be taken to be prepared for an EPA regulatory audit. The presentations covered Region 7’s approach to MS4 enforcement for Phase I and II programs and audit procedures that includes interviews, records review, field inspections, and tips for staying in compliance with MS4 permits.

**Indian Creek Nature Center’s “Soak It Up” workshop**

Marion was proud to have participated in the “Soak It Up” series of workshops at Indian Creek Nature Center in Cedar Rapids. The workshops were an opportunity for community members to become an advocate for the environment in a six week series focused on storm water management solutions for work or in their own backyard.

This series is designed for the homeowner, design professional, land developer or contractor. Different local guests and professionals lead a workshop and discussion each week of the series that educate residents about several stormwater best management practices, financial support options, and tools to successfully implement a stormwater project. Topics and presentations included green infrastructure design, native plant selection, urban and rural storm water runoff solutions, and more.

Marion presented on April 18th by presenting information on the Residential Cost-Sharing (Rebate) Program.

**Iowa Technology & Geospatial Conference**

The ITAG Conference is a joint effort between the Iowa Geographic Information Council (IGIC) and the Iowa Counties Information Technology (ICIT) organizations to combine annual conferences into one comprehensive technology and geospatial event. This Year’s conference was held in West Des Moines June 20th through 23rd. In total, there was more than 50 hours of educational content over the course of the conference. The purpose of both organizations is to promote education, training, and cooperation in regards to technology and GIS.
The City of Marion attended this conference as well as pre-conference training on Building Apps with Web AppBuilder, which provided training and hands-on experience on ESRI’s web GIS capabilities.

**Staff Certifications**

Engineering staff for the City of Marion maintain the following certifications pertaining to stormwater management and pollution prevention:

- IDOT Erosion Control Basic: 7 staff
- IDOT Certified Erosion Control Technician: 1 staff
- Iowa Certified Construction Site Pollution Prevention Inspector (ICCSPPi): 6 staff
- Iowa Certification For Inspection and Maintenance Program Of Stormwater Practices (ICIMPSP): 5 staff
- Iowa Certified SWPPP Designer: 4 staff
- Work Zone Safety: 10 staff

**MEDIA AND TELEVISION**

**ISWEP Public Service Announcements**

The Iowa Stormwater Education Partnership (ISWEP) developed four public service announcements to be used by member communities in their public education programs. These PSAs show a raindrop drawing attention to the different types of stormwater pollution such as oil, lawn fertilizer, and car wash soap, with a narrator explaining how underground pipes then carry those pollutants to the closest stream, river or lake, with no treatment in between.

The videos are available for viewing on the City of Marion stormwater web page:

**City of Marion Stormwater Educational Video**

MSA Consultants produced a 20-minute storm water video specifically made for the City of Marion, with scenes shot in the city and interviews/commentary from City and County staff. This video covers the basics in watershed drainage, basins, water quality issues, flooding, and explains where stormwater does go once it goes into an intake. The City gave copies of this video to both area school districts, and provided a YouTube link on the City’s website to view the video.

Part 1 of the video can be seen here:
https://www.youtube.com/watch?v=uYSsSW54Bv8&feature=youtu.be

Part 2 of the video can be seen here:
https://www.youtube.com/watch?v=uv4m3hUllZY&feature=youtu.be
Marion Messenger Newsletter

The Marion Messenger is a quarterly print newsletter mailed to all residents in the 52302 zip code and is distributed to new utility customers. 18,000 copies are printed each quarter, with extras stocked in brochure racks at City Hall, the library, and other City facilities. It contains stories that highlight events happening within the City, new developments, safety and traffic issues, stormwater pollution prevention for both residential and commercial properties, and other hot topics in Marion.

Part B: Public Involvement and Participation

Stormwater Advisory Committee

Marion’s Stormwater Advisory Committee consists of seven Marion residents from a variety of backgrounds: two Professional Engineers from private engineering firms (one is retired), a Licensed Land Surveyor who works with a local development company, a Stormwater Specialist with ISWEP, a local NRCS Official, and a City Planner.

As required by Marion’s NPDES permit, the Stormwater Advisory Committee meets annually to discuss current initiatives in stormwater management and public education/outreach, and provide guidance to City staff. This annual meeting was held on July 20th, 2017.

The Stormwater Advisory Committee also serves as the authority for Marion’s Neighborhood Drainage Assistance program. This program provides financial assistance, in the form of reimbursement for drain tile materials, to groups of residents who wish to alleviate areas with poor drainage that affect multiple properties. The residents complete an application for drainage assistance which is reviewed by the Stormwater Advisory Committee on a quarterly basis to determine if the proposed neighborhood drainage project is suitable and provide recommendations to staff. Although there were no applications submitted this year by Marion residents, the Stormwater Advisory Committee acknowledged during the meeting their role in this program and expressed their support for it should they be needed for it in the future.

Storm Sewer Stenciling with Marion High School

The City’s storm sewer intake stenciling program continued this year, with the help of Marion High School students. The City supplies the stencils and paint, while the school provides students to paint the “No Dumping, Drains to River” messages on the intakes.

This program teaches the students what a storm intake is and where the intake discharge actually
On May 15th, 2017, approximately 20 Marion High School held an entire day of service and volunteer work called One Day in May. The students broke into three teams lead by teachers and stenciled 430 storm sewer intakes in the Indian Creek and Squaw Creek watersheds, highlighted in the map below.

The map above shows the locations of storm sewer intakes that were marked with stencils

**INDIAN CREEK WATERSHED MANAGEMENT AUTHORITY**

The City of Marion continued its leadership role in ICWMA over the last year by serving on the Board of Directors as Treasurer and by working closely with the ECICOG to coordinate administration of the plan with all stakeholders in the Indian Creek Watershed.

The Indian Creek Watershed (HUC-10 0708020601) spans a 94-square mile area within Linn County, Iowa, and is fed by Dry Creek, East Indian Creek, and Squaw Creek, and ultimately drains to the Cedar River near the intersection of Otis Road SE and Bertram Road, south of Mt. Vernon Road SE. The City of Marion lies almost entirely within this watershed.

The Indian Creek Watershed Management Authority (ICWMA) was formed in August 2012 as a cooperative agreement among the jurisdictions within the watershed – Marion,
Cedar Rapids, Hiawatha, Robins, Linn County, and the Linn County Soil & Water Conservation District (Alburnett is the only jurisdiction in the watershed not participating) – to provide a framework for watershed level planning and management. The goal of ICWMA is to increase communication and coordination within the Indian Creek Watershed to reduce flood risk and improve water quality.

ICWMA is managed by Jennifer Fencl of ECICOG and the ICWMA board of directors is made up of public officials from jurisdictions within the watershed:
• Sandy Pumphrey, PE, CFM (Chair), Project Engineer, City of Cedar Rapids
• Les Beck (Vice-Chair), Director of Planning & Development, Linn County
• Steve Cooper (Secretary / Treasurer), Stormwater Coordinator, City of Marion
• Vince Bading, Public Works Superintendent, City of Robins
• John Bender, Engineering Coordinator, City of Hiawatha
• Bruce Frana (Chair), Assistant District Commissioner, Linn County SWCD

The ICWMA watershed assessment process embraced a cooperative, multi-jurisdictional planning approach facilitated by the East Central Iowa Council of Governments (ECICOG) in partnership with several local, state, and federal agencies for plan development. The resulting Indian Creek Watershed Management Plan (ICWM Plan) identifies strategies and recommendations for stormwater management and water quality protection, including specific implementation activities and milestones. The Plan was completed and presented to the public in June 2015 and adopted by all six of the ICWMA members at policy maker meetings during July and August of 2015.

The Plan is available on the ICWMA website [http://indiancreekwatershed.weebly.com](http://indiancreekwatershed.weebly.com) A link to the plan is also available on the Marion Stormwater web page: [http://www.cityofmarion.org/departments/engineering/stormwater-management](http://www.cityofmarion.org/departments/engineering/stormwater-management)
ICWMA as an organization, along with its Watershed Management Plan, provides a comprehensive watershed assessment program the City of Marion as well as other communities within the Cedar River watershed. The Indian Creek Watershed Management Plan outlines measures to be implemented which reduce flooding, reduce erosion in ditches and streams, improve water quality and reduce degradation of habitat for fish and wildlife.

Some of the highlighted efforts from the past year with ICWMA are the ArcSLAMM modeling project by the UNI GeoTREE Center, the development of the Lower Cedar Watershed Management Authority, and cooperation with Watershed Management Authorities of Iowa.

**ArcSLAMM/WinSLAMM Watershed Modeling by GeoTREE**

The Geoinformatics Training, Research, Education, and Extension Center (GeoTREE Center) at the University of Northern Iowa, with funding from the Iowa Department of Agriculture and Land Stewardship, completed urban stormwater modeling for portions of several urban watersheds in Iowa including a large portion of the Indian Creek watershed. The IDALS project was funded to further develop and improve a coupled GIS - urban stormwater modeling system. The GeoTREE Center has developed a set of customized geodatabases called ArcSLAMM (Source Loading and Management Model), custom ArcGIS toolbox (Python Script tools), and documentation. ArcSLAMM extends the ability to effectively use GIS with WinSLAMM, a leading urban stormwater modeling software program.

The overall objectives of the project were to:

- Quantify annual stormwater pollution discharged in the urban area of Indian Creek – Squaw Creek Watershed based on a representative annual rainfall file from Waterloo
- Develop maps and databases that can be used to identify areas that produce high volumes of runoff and pollutant loads coming from individual sub-catchments
- Develop a web mapping application which displays BMPs in the Indian Creek – Squaw Creek Watershed

The project will consist of digitizing detailed source areas (roofs, driveways, sidewalks, parking lots, grass, etc.) within the sub-watershed and then using LiDAR elevation data to delineate the smaller drainage areas. The result will be a map of the sub-watershed representing drainage areas according to how much runoff it produces as well as pollutant (sediment, P, and N) loads and concentrations. This will identify “hot spots” contributing more runoff or pollutants within the sub-watershed. BMPs can then be introduced into the
model of a specific drainage area to see conditions before the BMP and results after implementation (i.e. how much improvement).

The project resulted in a number of products that should be useful for management and planning purposes in the Indian Creek Watershed. The development of the detailed source area polygons in the geodatabase also provide the potential for modeling of even
more detailed sub-watersheds or for new simulations to be developed for existing BMPs or for potential what-if BMP simulations to be carried out in other areas. This is valuable information for the City of Marion and will be used to help guide private development and Capital Improvements Project planning and prioritization.

Results from the modeling project are available from the GeoTREE website here: [http://www.geotree.uni.edu/en/extension/arcslamm-modeling-results](http://www.geotree.uni.edu/en/extension/arcslamm-modeling-results)

### Lower Cedar Watershed Management Authority and Watershed Management Authorities of Iowa

The Lower Cedar Watershed Management Authority (HUC-8 07080206) was recently created to serve the counties of Cedar, Johnson, Jones, Linn, Louisa, Muscatine, and Scott with watershed level planning and water protection. It begins with the Indian Creek Watershed – at the downstream boundary of the Middle Cedar Watershed Management Authority – and ends where the Cedar River joins with the Iowa River just before they both enter the Mississippi River. With this WMA, the Cedar River is now the first continuous river in Iowa to be covered by watershed management authorities in its entirety.

Watershed Management Authorities of Iowa is an information network for WMA representatives and water-related professionals across the state, created as a formal organization to enable WMA-to-WMA exchanges and to be a resource for the latest news and research, funding opportunities, and curriculum in watershed work. Located within the Iowa Water Center, a research-based organization located on the Iowa State University campus, WMAs of Iowa is a resource of information for the latest water research and best practices in water-related work. The Iowa Water Center will be a facilitator and fulfill administrative tasks for WMAs of Iowa so that it may grow into a self-led organization in the future.

ICWMA and its member communities are eager to participate with these organizations to support the goal of maintaining and creating statewide partnerships in watershed work. Having public and private sector partnerships in watershed management across the state will enable successful work in engaging a multitude of diverse stakeholders. These partnerships will support specific conservation projects conducted at the local level and will assist in expanding the reach of WMAs of Iowa across the state and beyond.
Part C: Illicit Discharge Detection and Elimination

Storm Sewer System Map

The City of Marion has a complete Storm Sewer System map on our Geographic Information System. Inlets, outlets, and junctions have been shot in with survey grade GPS equipment. All storm structures in new subdivisions are added to the map as they are constructed. Reconstructed storm structures and systems are re-surveyed after the rehabilitation work is completed. Below is an example of our mapping system. Additionally, new GIS datasets are being developed that define drainageways, watersheds, sub-watersheds, and catchment areas in and upstream of Marion. This data provides both City staff and residents with a clearer picture of stormwater flows.

At left is the GIS Marion maintains that includes storm sewer pipes and structures as well as stormwater BMPs.

In the map at right, the solid blue lines are perennial flowing waterways, dotted blue lines are drainage ways with intermittent water, solid black lines are the borders of major watershed (Indian Creek, Squaw Creek, etc.), and dotted black lines are the boundaries of sub-watersheds.
Illicit Discharge Detection and Elimination Program

The City of Marion has continued to inspect our storm sewer outfalls for any illicit discharges. As required by our current NPDES permit, this summer we inspected 33 outfalls that had active subdivisions or project sites draining to them. 2017 inspections again utilized the mobile inspection app Fulcrum and included the following information:

- Outfall name or identification
- Outfall type (flared-end section, box culvert, etc.)
- Inspection date and time
- Location description of the outfall, as well as coordinates in latitude and longitude for GIS mapping
- Is there evidence of an illicit discharge?
- Overall structure condition
- Photos documenting the conditions of the BMP

The map below shows the location of outfalls that were inspected in 2017. No illicit discharges were found. Samples of the inspection reports can be found in Appendix B.

Although the Engineering Department was notified a few times about potential illicit discharges, investigations found that there were no instances of illicit discharges in Marion over the past year.
Part D: Construction Site Storm Water Runoff Control

Construction Site Review and Inspection Program

The City of Marion has been requiring detailed site plans and stormwater pollution prevention plans from developers since 2005. The City does not allow developers to commence on construction projects until proper runoff control measures have been reviewed and approved by our office, and are in place out in the field.

There is a $100 fee for the Major Erosion Control Permits in place, which are defined as sites greater than 1 acre. There is a $25 fee for individual homes and small business sites less than 1 acre in size called Minor Erosion Control Permits.

The Engineering Department inspects Capital Project sites, Commercial sites, and Subdivision sites larger than one acre. One acre or less single family dwelling sites are inspected by the Building Department. Public Services, Parks, or Water Department projects too small to require a NPDES permit from IDNR are monitored by the corresponding department.

As required by the Marion’s NPDES permit, the Engineering Department conducts quarterly SWPPP inspections on active construction sites in the city that hold a General Permit #2 from IDNR.

General Permit #2 information is downloaded each quarter using IDNR’s online stormwater database, and spreadsheets are created for both active and expired permits. Additionally, the City of Marion now also receives email stormwater alerts from the Iowa Department of Natural Resources Stormwater Program. Owners of expired permits are contacted to inform them to renew their permits or, if their site has no construction activity and is 70% stabilized, file a Notice of Discontinuation. Owners of active permits are contacted by inspectors to notify them of the quarterly SWPPP inspection, and an appointment is made to meet on-site.

A mobile form is used for SWPPP inspections (Fulcrum) that includes:
  • The project name and authorization number as stated on the GP#2 permit
  • Inspection date, time and weather conditions
  • Location coordinates (latitude, longitude) of inspection site
  • An onsite inspection to review all the BMPs
  • A review of the Owner’s weekly inspection reports and SWPPP to see if they are keeping up with the required paper work as well as maintaining appropriate BMPs
  • Pictures are taken to document site conditions, good or bad.
  • Deficiencies found and additions required, and the date they must be corrected

When the inspection is complete, an inspection report is generated in a PDF file and includes all observed conditions, notes, and photos taken of the site. This inspection report is then sent to the permit holder, general contractor, and/or SWPPP contractor. The date, time, and method of notification is included in the report. The reports are also kept electronically on the City of Marion’s network file server.
To ensure that stormwater pollution prevention practices are always in place and functioning properly, active construction sites in Marion are often visited and observed on a weekly or bi-weekly basis. If it is found during these site visits that erosion controls, sediment controls, or pollution prevention measures need to be addressed, permit holders and contractors are notified immediately.

Samples of quarterly GP#2 SWPPP inspection reports can be found in Appendix B.

**Part E: Post-construction Storm Water Management**

**Post-construction Site Runoff Control Policy Ordinance**

The City of Marion has a stormwater ordinance in the Municipal Code, effective since September of 2008. A copy of this ordinance is available upon request.

**Stormwater Detention Requirements**

In February 2016, the City of Marion officially adopted in full the Iowa’s State Urban Design and Specifications (SUDAS) for the design of the post-construction stormwater management. The minimum post-construction stormwater detention requirements for new development are:

- The post-development Best Management Practice (BMP) must have a release rate of the 5-year pre-development peak runoff or less.
- The difference between the 5-year pre-development and 100-year post-development storm run-off must be detained on site. Again, the 5-year pre-development peak runoff amount is the maximum the post-development site can release, so the volume difference between the two storm events will be used to size the BMP.
- The one-inch rainfall over the developed site shall be detained in the basin for a minimum of 24 hours. Known as the “first-flush events”, this standard will typically result in 60—80 percent of the total suspended solids being removed.

The city is also reviewing adopting the Iowa Stormwater Management Manual, with the goal of adopting and changing to these standards within the next year.

**BMP Manual**

The city of Marion has adopted the FAIR Approach (Filter – Absorb – Infiltrate – Retain) Best Management Practice (BMP) for our community. The FAIR Approach concept focuses on retaining the one-inch rainfall event on site using different BMP independently and combined if necessary to achieve absorption of the one-inch rain. We also use and reference the new SUDAS manual for additional BMP practices which is now located at the CTRE website. We currently reference both of these manuals on our city website.

**Inspections of Post-Construction Stormwater Best Management Practices**
As required by our current NPDES permit, the City of Marion conducts inspections of municipal stormwater control devices and structures. Since last year’s report, 68 stormwater controls and post-construction BMPs, both public and private, throughout the city. As with outfall inspections and construction site SWPPP inspections, a mobile inspection app was developed using Fulcrum. This form includes the following information:

- BMP name or identification
- BMP type (stormwater detention, retention pond, bioretention cell, etc.)
- Inspection date, time and weather conditions
- Ownership/maintenance (public or private)
- Location description of BMP, as well as coordinates in latitude and longitude for GIS mapping
- Condition of the BMP (vegetation, sedimentation, erosion, inlets, outlets, etc.)
- Photos documenting the conditions of the BMP

The map below shows the location of BMPs and stormwater control devices that were inspected in 2017. Samples of the inspection reports can be found in Appendix B.
**Topsoil Requirement**

The City of Marion complies with the language in the General Permit #2 that requires topsoil to be preserved unless it is not feasible to do so. Marion also adopted the State Urban Design and Specification (SUDAS) in February 2016 in its entirety. SUDAS Specification Manual Division 2: Earthwork, Section 2010: Earthwork, Subgrade, and Subbase provides details for stripping, stockpiling, and re-spreading topsoil. Additionally, the SUDAS Design Manual provides requirements for permanent seeding and sodding in Chapter 7 - Erosion and Sediment Control: 7E-25 Sodding and 7E-24 Permanent Seeding.

Marion Engineering Department staff reviews the plans for all proposed developments and building sites, and requires owners and contractors to comply with these regulations. Plans that do not meet SUDAS or General Permit #2 requirements do not get approved.

Many developers and builders that do work in the City of Marion understand the importance of topsoil, both for stormwater management as well as for customer satisfaction, and will make sure that soils on their building sites are adequate prior to sodding or seeding.

---

**Part F: Pollution Prevention/Good Housekeeping**

**Operation and Maintenance of MS4**

The City of Marion continues to improve its existing infrastructure by inspecting, maintaining and cleaning all components of the city’s storm sewer system. The Public Services Department does most of the minor maintenance to the system. Larger projects are designed and constructed under the direction of the Engineering Department.

Since last year’s report, the Engineering Department reported replacing or installing the following quantities of storm sewers with projects:
- 6,930 l.f. of RCP storm sewer pipe, ranging from 15” to 30” in diameter.
- 154 storm sewer intakes and manholes
- 8,629 l.f. of HDPE draintile, 6” diameter

**Pesticide and Fertilizer Management Program**

The goal of the City of Marion’s Pesticide and Fertilizer Management Program is to minimize the pollutant discharge associated with storage, application and disposal of fertilizers for municipal operations within city parks.

The City of Marion Parks Department handles and applies fertilizers. Proper training has been provided to the individuals who will be handling and applying these materials. No insecticides were used this year.
The fertilizer and chemical application rates charts and the stormwater good housekeeping inspections reports for this year are included in Appendix A.

City Facility BMPs

The City Hall site has porous pavers, bioswales, and small detention basins to treat the storm water runoff quality and reduce the quantity. In September 2013, the Parks Department removed and replaced the amended soils in many of the bioswales, which had been installed poorly when City Hall was initially constructed.

The Library overflow parking site has porous pavers and a small detention basin to treat the storm water runoff quality and reduce the quantity.

The Public Service facility has a rain garden to handle roof runoff, and has detention ponds in the back yard storage area to treat the storm runoff.

The Lowe Park A&E Building uses rain barrels and bioswales for the roof and parking lot, and has native vegetation throughout the site.

The Thomas Park Building Shop incorporated bioswales and soil amendments to improve storm water quality.

The Thomas Park splash pad discharges to a bio-swale located adjacent to a walking trail.

The new Police Department Building has numerous small detention basins to treat the storm water runoff quality and reduce the quantity.

City Facility Inspections

The following are the individual inspection reports for Public Service, Parks, and Water Department buildings. The Fire Department inspects their two fire stations daily, and formally document HAZ-MAT spills on their server. These records can be made available upon request.

Appendix A on the following pages include summaries and inspection reports from Marion’s Public Services Department, Parks Department, and Water Department on their stormwater pollution prevention activities in the past year.
2017 ANNUAL STORMWATER REPORT

APPENDIX A

- Public Services Department Pollution Prevention/Good Housekeeping Inspections
- Parks Department Pollution Prevention/Good Housekeeping Inspections
- Water Department Pollution Prevention/Good Housekeeping Inspections
Right of Way Maintenance – Right of way maintenance begins in the spring with the cleanup of heavy sand deposits on the right of ways of the designated snow routes. Mechanical brooms are used to clean sand deposits that are within the street and on the right of way areas. Personnel also collect debris and litter along the ROW in the spring as part of the continuing adopt a roadway beautification project. Street sweeping continues throughout the year into the residential areas.

INTERSECTION SWEEPING

<table>
<thead>
<tr>
<th>Intersection</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARKVIEW &amp; WEST 9TH AVENUE/DONNELLY DRIVE</td>
</tr>
<tr>
<td>PARKVIEW &amp; ALPINE/ELM/TERRACE</td>
</tr>
<tr>
<td>SOUTH 15TH STREET &amp; 3RD AVENUE/2ND AVENUE</td>
</tr>
</tbody>
</table>

MEDIAN CLEANING

<table>
<thead>
<tr>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWY. 151</td>
</tr>
<tr>
<td>7TH AVENUE @ 35TH STREET</td>
</tr>
<tr>
<td>CENTRAL BUSINESS DISTRICT</td>
</tr>
<tr>
<td>MARION BLVD.</td>
</tr>
<tr>
<td>EAST POST ROAD</td>
</tr>
<tr>
<td>TWIX TOWN RD.</td>
</tr>
<tr>
<td>LINDALE &amp; BLAIRSFERRY</td>
</tr>
<tr>
<td>HWY 100 &amp; MUNIER RD.</td>
</tr>
<tr>
<td>31ST STREET (8TH AVE/MCGOWAN)</td>
</tr>
</tbody>
</table>

RIGHT OF WAY CLEANUP

<table>
<thead>
<tr>
<th>Maintenance Route</th>
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<tbody>
<tr>
<td>PINK MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>GREEN MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>ORANGE MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>PURPLE MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>YELLOW MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>RED MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>BROWN MAINTENANCE ROUTE</td>
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<tr>
<td>BLUE MAINTENANCE ROUTE</td>
</tr>
<tr>
<td>Maintenance Route</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>Pink Maintenance Route</td>
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<tr>
<td>Green Maintenance Route</td>
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<tr>
<td>Orange Maintenance Route</td>
</tr>
<tr>
<td>Purple Maintenance Route</td>
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<tr>
<td>Yellow Maintenance Route</td>
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<tr>
<td>Red Maintenance Route</td>
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<td>Brown Maintenance Route</td>
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<td>Blue Maintenance Route</td>
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<td>Black Maintenance Route</td>
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</tbody>
</table>
**STORM WATER MAINTENANCE PROGRAM**
Catch Basin Cleaning and Inspections- Activity will include visual inspections, visual repairs, and cleaning of catch basins.

**STORMWATER LINES (INLETS & OUTLETS)**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOYSON ROAD BY THE POOL</td>
<td>CULVERT MAINTENANCE AND CLEANING</td>
</tr>
<tr>
<td>WINSLOW ROAD ON HUNTINGTON HILL</td>
<td>CULVERT MAINTENANCE AND CLEANING</td>
</tr>
<tr>
<td>LARICK DITCH SOUTH Side OF BOYSON</td>
<td>CULVERT MAINTENANCE AND CLEANING</td>
</tr>
<tr>
<td>GRAND AVE AND GRAND AVE CT</td>
<td>CULVERT MAINTENANCE AND CLEANING</td>
</tr>
<tr>
<td>CULVERT HWY 151 AND 44TH STREET</td>
<td>CULVERT MAINTENANCE AND CLEANING</td>
</tr>
<tr>
<td>2790 NEWCASTLE</td>
<td>BANK STABALIZATION</td>
</tr>
<tr>
<td>PEBBLE CREAK FLOW-WAY- EDGEBROOK TO INDIAN CREEK ROAD</td>
<td>REMIDIATE/ REGRADE/ STABALIZE FLOW-WAY</td>
</tr>
</tbody>
</table>

**DETENTION BASIN MAINTENANCE**- Activities include annual inspections, cleaning of basins, grading, and mowing.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>35TH ST/SUNBURST AVE</td>
<td></td>
</tr>
<tr>
<td>31ST ST/ABBY RD</td>
<td></td>
</tr>
<tr>
<td>31ST ST/SUNBURST AVE</td>
<td></td>
</tr>
<tr>
<td>LARICK DITCHES</td>
<td></td>
</tr>
<tr>
<td>ECHO HILL RD/BELLBOY DR</td>
<td></td>
</tr>
<tr>
<td>HILLCREST CT</td>
<td></td>
</tr>
<tr>
<td>MEADOW VIEW / EAST POST RD</td>
<td></td>
</tr>
<tr>
<td>S. 26TH ST/MEADOW RIDGE BLVD</td>
<td></td>
</tr>
<tr>
<td>44TH ST WETLANDS AREA</td>
<td></td>
</tr>
<tr>
<td>S. 22ND ST/EDGEWOOD CT</td>
<td></td>
</tr>
<tr>
<td>PARTRIDGE CT.</td>
<td></td>
</tr>
<tr>
<td>LENNON LANE</td>
<td></td>
</tr>
<tr>
<td>CHESTNUT LANE*</td>
<td></td>
</tr>
</tbody>
</table>
DRAIN TILE INSTALLATIONS
3150 9TH STREET NORTH TO 33RD AVENUE
10TH AVENUE NORTH TO 1164 29TH STREET
10TH AVENUE NORTH TO 1035 30TH STREET
1080 WESTVIEW

CATCH BASIN REPAIRS AND RECONSTRUCTION
805 50TH STREET
1525 HILLCREST CT.
1260 MEADOWVIEW
790 NEWCASTLE
95 GRAND AVE
3490 MONARCH AVENUE
40TH STREET AND CHARTER OAK
ALPINE AND WEST 14TH
2255 TIMBER CREEK DRIVE
2355 A-AVE.
50TH STREET AND HWY 151. CULVERT ON 151
1830 DOUGLAS CT
1750 5TH AVENUE

Floodplain and Waterway Maintenance—includes annual preventative and responsive maintenance activities within the floodplain that will encompass Storm Water Channel Maintenance, Erosion Control and Bank Stabilization, Floodplain Utility Maintenance, and some limited Land management. Specific areas of floodplain maintenance activities are primarily focused directly within the stream channels. Maintaining the maximum hydraulic flow and minimizing streamline debris buildup. Erosion Control along the stream banks and maintenance requirements with the sanitary sewer systems has been steadily increasing. Land management within the flood plain is kept to a minimum due to the fact that there is a mix of wetlands, grasslands, and dedicated park land that requires little maintenance from Public Services.

a. Storm Water Channel Maintenance-
Current floodplain maintenance activities include debris removal and streamline bank stabilization. Clearing of streamline channels occurs annually in the fall and winter months. Maintenance personnel are also required to remove beaver dams throughout the year in minor storm water channels. In addition to stream channel cleaning, removal of sediment and silt within culverts and storm water lines typically requires annual attention. Cleaning of these storm water systems is required at least every two years.

b. Erosion Control
Maintenance activities within the stream channels also include erosion control along streamline banks. Erosion control is necessary to preserve not only the existing characteristics of the streamline channel, but every effort is made to maximize hydraulic flow capability by minimizing erosion and the potential for tree loss along streamlines.

c. Land Management
The current policies of Public Service is to restrict the level of use for floodplain areas that are owned and maintained by the city. Much of the existing floodplain is currently dedicated grass or wetlands that require little maintenance. Public Services will continue to post dedicated green space signs in identified areas.
**Name of Facility:** Winter Deicer Facilities  
**Date:** 11-7-17  
**Time:** 9:00am

**Inspector Name:** R Miller  
**Signature:** ______________________

**Please check one of the following:**  
- [X] Dry Weather Inspection  
- [ ] Wet Weather Inspection

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
</tr>
</thead>
</table>
| Brine Production Facility    | Storage tanks empty  
                             | Brine tank empty  
                             | MG CL Tank Full (2500 gallons)  
                             | No leaks noted |
| Bulk Salt Storage Facilities | Storage Blocks Tipped  
                             | Salt spilled over |  
                             | Cleaned facility  
                             | Restocked winter deicers |
Name of Facility: MAIND FACILITY INSPECTION        Date: 11-8-16        Time: 10:30am

Inspector Name: R Miller       Signature: ________________________________

Please check one of the following:  X  Dry Weather Inspection       ☐ Wet Weather Inspection

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIL ROOM</td>
<td>NO LEAKS CLEAN</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>FUEL CABINETS</td>
<td>NO SPILLS OR LEAKS</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>TRAFFIC MARKING PAINT STORAGE</td>
<td>NO SPILLS NO LEAKS</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>EQUIPMENT INSPECTION</td>
<td>SOME MINOR OIL (HYDRAULIC) SPILLS ON FLOOR</td>
<td>PART OF WEEKLY SHOP AND FLOOR CLEANING. EQUIPMENT REPAIRS REPORTED AND ADDRESSED</td>
</tr>
<tr>
<td>FLEET MAINTENANCE FACILITIES</td>
<td>MINOR OIL SPILLS-CONTAINED INSIDE.</td>
<td>PART OF WEEKLY SHOP AND FLOOR CLEANING. SIGNIFICANT OILS SPOTS ARE CLEANED IMMEDIATELY</td>
</tr>
<tr>
<td>WASH BAY FACILITIES</td>
<td>WASH BAYS CLEAN</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>ON SITE STORM WATER FACILITIES</td>
<td>WATERWAYS CLEAR</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>Area/Equipment/BMP Inspected</td>
<td>Observations</td>
<td>Actions Taken</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>OIL ROOM</td>
<td>NO LEAKS CLEAN</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>FUEL CABINETS</td>
<td>NO SPILLS OR LEAKS</td>
<td>NO ACTION TAKEN</td>
</tr>
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<td>TRAFFIC MARKING PAINT STORAGE</td>
<td>NO SPILLS NO LEAKS</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>EQUIPMENT INSPECTION</td>
<td>SOME MINOR OIL (HYDRAULIC) SPILLS ON FLOOR</td>
<td>PART OF WEEKLY SHOP AND FLOOR CLEANING. EQUIPMENT REPAIRS REPORTED AND ADDRESSED</td>
</tr>
<tr>
<td>FLEET MAINTENANCE FACILITES</td>
<td>MINOR OIL SPILLS-CONTAINED INSIDE.</td>
<td>PART OF WEEKLY SHOP AND FLOOR CLEANING. SIGNIFICANT OILS SPOTS ARE CLEANED IMMEDIATELY</td>
</tr>
<tr>
<td>WASH BAY FACILITES</td>
<td>WASH BAYS CLEAN</td>
<td>NO ACTION TAKEN</td>
</tr>
<tr>
<td>ON SITE STORM WATER FACILITES</td>
<td>WATERWAYS CLEAR</td>
<td>SOME MOWING WILL BE NEEDED LITTER REMOVAL FOR SPRING</td>
</tr>
</tbody>
</table>
Name of Facility: Winter Deicer Facilities  Date: 4-18-17  Time: 10:00am

Inspector Name: R Miller  Signature: 

Please check one of the following:  X  Dry Weather Inspection  □ Wet Weather Inspection

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
</tr>
</thead>
</table>
| Brine Production Facility    | Storage tanks half full  
Brine tank-needs cleaning  
MG CL Tank Full (1000gallons)  
Leaks no-leaching outside | Cleaned all brine facilities.  
Drained all storage tanks.  
Repaired leaks |
| Bulk Salt Storage Facilities  | Storage Blocks Tipped  
Salt spilled over  
Some leaching-nothing outside of building | Cleaned facility  
Restocked winter deicers |
Name of Facility: COMPOST AREA  
Date: 11-10-16  
Time: 11:30AM  
Inspector Name: RMiller  
Signature: ____________________________

Please check one of the following:  
X Dry Weather Inspection  
☐ Wet Weather Inspection

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>YARD WASTE FACILITY</td>
<td>COMPOST FACILITY IS CONTAINED NO LEACHING OF ORGANIC MATERIALS IN WATERWAYS</td>
<td>MOVE COMPOST PILES AWAY FROM PROPERTY LINE</td>
</tr>
</tbody>
</table>
**Name of Facility:** COMPOST AREA
**Date:** 4-18-15
**Time:** 11:00AM

**Inspector Name:** RMiller
**Signature:** __________________________

Please check one of the following:  
- [x] Dry Weather Inspection
- [ ] Wet Weather Inspection

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>YARD WASTE FACILITY</td>
<td>COMPOST FACILITY IS CONTAINED NO LEACHING OF ORGANIC MATERIALS IN WATERWAYS</td>
<td>MOWING AND LITTER REMOVAL POSSIBLE SILT FENCE ON SOUTH PROPERTY</td>
</tr>
</tbody>
</table>

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**MS-4 Pollution Prevention Good Housekeeping Program**

*Annual Stormwater Site Inspection Form: Public Works Facilities*
**Name of Facility:** Water Dept Main Shop Site #4 & #1  
**Date:** 9-15-17  
**Time:** 9:00 am  
**Inspector Name:** Todd Steigerwaldt  
**Please check one of the following:**  
- [X] Dry Weather Inspection  
- [ ] Wet

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Area</td>
<td>Area Clean/No Spills</td>
<td>None</td>
</tr>
<tr>
<td>Wash Bay</td>
<td>Area Clean</td>
<td>None</td>
</tr>
<tr>
<td>Paint Storage Cabinets</td>
<td>Clean/ No Spills</td>
<td>None</td>
</tr>
<tr>
<td>Fuel Cabinet</td>
<td>Clean/ No Spills</td>
<td>None</td>
</tr>
<tr>
<td>Oil Room</td>
<td>Minor areas of oil on top of barrels</td>
<td>Area cleaned</td>
</tr>
<tr>
<td>Outside facility inspection</td>
<td>No chemicals stored outside</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>No run off observed</td>
<td></td>
</tr>
<tr>
<td>Rock, sand, dirt stockpiles</td>
<td>No erosion occurring. Stockpiles have perimeter containment measures installed.</td>
<td>None</td>
</tr>
</tbody>
</table>
Name of Facility: Well Site #3  Date: 9-16-17  Time: 9:30 AM
Inspector Name: Todd Steigerwaldt

Please check one of the following:  X  Dry Weather Inspection   □ Wet

<table>
<thead>
<tr>
<th>Area/Equipment/BMP Inspected</th>
<th>Observations</th>
<th>Actions Taken</th>
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</thead>
<tbody>
<tr>
<td>Equipment Area / pumps</td>
<td>Area Clean</td>
<td>None</td>
</tr>
<tr>
<td>Outside facility inspection</td>
<td>No run off observed. Final seeding to occur once tower overflow sump pit is installed.</td>
<td>None</td>
</tr>
<tr>
<td>Booster station not in use at this time.</td>
<td></td>
<td></td>
</tr>
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Name of Facility: Well Site #6  Date: 09-15-17  Time: 10:00 AM
Inspector Name: Todd Steigerwaldt

Please check one of the following:  X  Dry Weather Inspection   □ Wet

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<thead>
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<th>Observations</th>
<th>Actions Taken</th>
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<tr>
<td>Equipment Area / pumps</td>
<td>Area Clean</td>
<td>None</td>
</tr>
<tr>
<td>Outside facility inspection</td>
<td>No run off observed</td>
<td>None</td>
</tr>
</tbody>
</table>
**Name of Facility:** Well Site #5  
**Date:** 09-15-17  
**Time:** 10:30 AM  

**Inspector Name:** Todd Steigerwaldt

Please check one of the following:  
- [x] Dry Weather Inspection  
- [ ] Wet

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<tr>
<td>Equipment Area / pumps</td>
<td>Area Clean</td>
<td>None</td>
</tr>
<tr>
<td>Outside facility inspection</td>
<td>No run off observed. Painting contractor on site to paint 0.2 MG ground storage tank using full containment.</td>
<td>Daily inspections</td>
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**Name of Facility:** Lindale Water Tower  
**Date:** 9-15-17  
**Time:** 10:45 AM

**Inspector Name:** Todd Steigerwaldt

Please check one of the following:  
- [x] Dry Weather Inspection  
- [ ] Wet

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<th>Observations</th>
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<tr>
<td>Outside facility inspection</td>
<td>No runoff observed. Tower recently painted. Contractor is hired to remove erosion control measures once permanent seeding is established.</td>
<td>None</td>
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</table>
**35th Street Water Tower**

**Date:** 9-15-17  
**Time:** 11:00 AM  
**Inspector Name:** Todd Steigerwaldt

Please check one of the following:  
X Dry Weather Inspection  
☐ Wet

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<tr>
<td>Outside facility inspection</td>
<td>No runoff observed.</td>
<td>None</td>
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</tbody>
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**Well Site #7**

**Date:** 09-15-17  
**Time:** 11:15 PM  
**Inspector Name:** Todd Steigerwaldt

Please check one of the following:  
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<table>
<thead>
<tr>
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<table>
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<tr>
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**SEED**
- Athletic Interseed
- Pace Sporst Mix
- Pro Turf

**CHEMICALS**
- Trimec Plus

**CONDITIONING**
- Aeration
- Topdress mix
- Turface
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**FERTILIZER**

- Bloomers
- Baby Bloomers
- Deblooms
- Nat. grass tall
- Nat. grass short
- Plugs
- Annual Rye

**IRRIGATION**

- Monthly average

**CONDITIONING**

- Aeration
- Topdress mix
- Turface
- E- matting
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</table>
2017 ANNUAL STORMWATER REPORT

APPENDIX B

- Letter to Concrete Companies and mailing list.
- Report Examples of Quarterly SWPPP Inspections
- Inspection Report Examples of Post-Construction Stormwater Controls
- Outfall Inspection Report Examples
February 22, 2017

The Environmental Protection Agency (EPA) has given notice to communities in Iowa that they will be conducting “sweeps” or unannounced audits of cities, construction sites, and industrial activities with active IDNR General Permits. The purpose of these sweeps is to identify stormwater pollution violations. They will be conducted without prior notice to local governments or project owners. The EPA typically focuses their attention on construction sites or commercial activity where potential pollutants are being allowed (i.e. no best management practices in place) to enter storm sewers, ditches, drainage ways, creeks, and rivers.

One specific practice they will target is pouring and handling of concrete and concrete wash water on construction sites. A recent EPA sweep in Central Iowa resulted in an $8,000 fine. The EPA report noted “Piles of concrete were left onsite that were not part of the pavement project. This should have been in a concrete washout area or cleaned up after the project was completed for that day.” As you are aware, washout water for concrete and cement is corrosive and caustic. The pH of concrete is very high and is extremely harmful to vegetation, groundwater, and aquatic life.

Additionally, the IDNR and EPA have contacted Marion and Cedar Rapids recently regarding complaints made to from local residents who chose to bypass city government and report potential violations directly to state and federal authorities.

The purpose of this letter is to prevent violations and potential fines, and to provide a reminder of the importance of proper washout procedures and the potential of fines associated with permit violations. At any given time, an inspector from the City, IDNR, EPA, or even an informed resident can document improper practices that can result in penalties to your company.

Please make sure that your staff fully understands and practices best cleaning methods when handling and washing concrete equipment, no matter how small the job is:

- Wash out concrete materials and tools in properly constructed and maintained concrete washouts.
- If a washout is not available or overflowing, make sure to have your own washout available.
- Do not wash off the any part of vehicles, tools, boots, or materials in a street or anywhere the water can enter a storm sewer, ditch, or body of water.

Photo examples of potential violations are provided on the following pages.

Stormwater pollution violations in the City of Marion can result in a municipal infraction against your company, with penalties of $750 per day for the first offense and $1,000 per day for subsequent offenses. Iowa Code authorizes IDNR to issue penalties of up to $5,000 per day of violation for the National Pollutant Discharge Elimination System (NPDES) permit violations. The EPA may also issue a penalty of up to $27,500 per day for each violation.
If you have any questions, please feel free to contact local city Staff.

__________________________
Steve Cooper, GISP
City of Marion Stormwater Coordinator, Engineering Department
1225 6th Avenue, Suite 200
Marion, Iowa 52302
319-743-4736

__________________________
Cara Matteson
City of Cedar Rapids Stormwater Coordinator, Public Works Department
500 15th Ave SW
Cedar Rapids, IA 52404
319-286-5604

__________________________
John Bender, P.E.
City of Hiawatha Engineer
101 Emmons Street
Hiawatha, Iowa 52233
319-393-1515

__________________________
Vince Bading
City of Robins Building Official / Public Works Superintendent
265 S. Second St.
Robins, Iowa 52328
319-393-0588
Examples of concrete washout violations:

This operator was washing out the chute and the outside of the truck into a stormwater bio-retention area filled with native vegetation.

This roll-off concrete washout has not been maintained and is overflowing.
This builder has not provided adequate stormwater pollution prevention controls and has allowed contaminated water to flow off the site and into the storm sewer.

These operators allowed water contaminated with concrete to flow directly into a storm sewer.
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Company Name</th>
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</thead>
<tbody>
<tr>
<td>AEC Construction</td>
<td>Iowa Concrete Leveling</td>
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<td>Affordable Construction</td>
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<td>American Concrete Pumping</td>
<td>Iowa State Concrete (ISC)</td>
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<td>Atwater Concrete</td>
<td>Iowa Walls Concrete Construction Inc.</td>
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<tr>
<td>B &amp; B Concrete Construction</td>
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<td>Banes Construction Inc</td>
<td>JDM Concrete, LLC</td>
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<td>Banes Grading &amp; Construction</td>
<td>Kelly Concrete Company</td>
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<td>Bernet Construction Company</td>
<td>King's Material Ready Mix Division</td>
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<td>Bill Lane Construction Inc</td>
<td>L. L. Pelling Co.</td>
</tr>
<tr>
<td>Budda's 3M</td>
<td>Mc Allister Concrete Co</td>
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<td>Central States Concrete, LLC</td>
<td>MD Concrete Co Inc</td>
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<td>MidAmerica Basement Systems</td>
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<td>Classic Concrete Raising Inc</td>
<td>Midwest Concrete</td>
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<td>Clay Duncan Concrete Ink</td>
<td>MR Construction</td>
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<td>Concrete Design Concepts</td>
<td>Pate Asphalt Systems</td>
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<td>Concrete Gone Wild</td>
<td>PolishMaxx</td>
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<td>Concrete Professionals</td>
<td>Polyraise</td>
</tr>
<tr>
<td>Connolly Concrete &amp; Excavating &amp;</td>
<td>PolyRaise Of Eastern Iowa</td>
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<tr>
<td>Excavating &amp;</td>
<td>Pospisil Painting Inc</td>
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<tr>
<td>Croell, Inc.</td>
<td>Poured Walls of Iowa, Inc</td>
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<tr>
<td>Curtis Contracting</td>
<td>Progressive Concrete Inc</td>
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<tr>
<td>Cutter Construction</td>
<td>ProProperty Improvements</td>
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<td>Dan Sherman Custom Concrete</td>
<td>Quality One Construction</td>
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<td>DC Concrete</td>
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<td>REX Concrete Inc</td>
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<td>Dixon Concrete</td>
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<td>E &amp; F Paving Company</td>
<td>Rogers Concrete Construction</td>
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<td>Earthworks Concrete and Landscaping</td>
<td>Rude, Herry Concrete</td>
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<td>S &amp; M Concrete</td>
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<td>Eastern Iowa L.L.C. Excavating &amp; Concrete</td>
<td>Springville Ready Mix</td>
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<td>Eggleston Concrete Contractors, inc</td>
<td>Tschiggfrie Excavating</td>
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<td>Enos Bros Concrete Construction</td>
<td>Vector Construction Inc</td>
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<tr>
<td>Hawkeye Ready-Mix, Inc.</td>
<td>Weber Concrete Inc</td>
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<tr>
<td>Heim Bobcat &amp; Concrete, Inc.</td>
<td>Western Waterproofing</td>
</tr>
<tr>
<td>Hook Construction, Inc.</td>
<td>Winters Concrete Construction</td>
</tr>
<tr>
<td>Horsfield Construction Company</td>
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</table>
## EDGEBROOKE ADDITIONS & EDGEBROOKE EST 4TH/ NORTH - City of Marion Quarterly SWPPP Inspection

<table>
<thead>
<tr>
<th>Description</th>
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<td>EDGEBROOKE ADDITIONS &amp; EDGEBROOKE EST 4TH/ NORTH - City of Marion Quarterly SWPPP Inspection</td>
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<tr>
<td>IDNR Permit #</td>
<td>5290-5139, 20362-20130</td>
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<tr>
<td>Owner Name and Contact Info</td>
<td>MIDWEST DEVELOPMENT CO., 411 FIRST AVE. SE SUITE 410 CEDAR RAPIDS, IA 52401-1366 (319)363-8285</td>
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<td>Inspection Type</td>
<td>Marion Quarterly</td>
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<td>Inspection Time</td>
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<tr>
<td>Inspector Name</td>
<td>Steve Cooper, Stormwater Coordinator</td>
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<td>Temperature</td>
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<td>Weather Conditions</td>
<td>Some Clouds</td>
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<td>Erosion Controls</td>
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</tr>
<tr>
<td>Erosion Control Comments:</td>
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</tr>
<tr>
<td>Sediment Controls</td>
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<tr>
<td>Sediment Control Comments:</td>
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</tr>
<tr>
<td>Storm Sewer Inlet Protection</td>
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</tr>
<tr>
<td>Inlet Protection Comments:</td>
<td>Storm sewer intake protection must be installed and maintained while there is active construction throughout the site.</td>
</tr>
<tr>
<td>Post-Construction BMPs (i.e. detention basins):</td>
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</tr>
<tr>
<td>Post-Construction BMP Comments:</td>
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<tr>
<td>Concrete Washouts</td>
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<tr>
<td>Concrete Washout Comments:</td>
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<tr>
<td>Containment of trash, debris, and hazardous materials:</td>
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</tr>
<tr>
<td>Trash Containment Comments:</td>
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</tr>
<tr>
<td>Are streets clear of mud, siltation, vehicle tracking, etc.?</td>
<td>Yes</td>
</tr>
<tr>
<td>21/14 rule - Are areas not disturbed for 21 days stabilized?</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the SWPPP site map current?</td>
<td>Yes</td>
</tr>
<tr>
<td>Have all subcontractors/co-permitees signed the SWPPP?</td>
<td>Yes</td>
</tr>
<tr>
<td>Have contractor inspections been completed every 7 calendar days?</td>
<td>Yes</td>
</tr>
<tr>
<td>Is this site in compliance with topsoil requirements?</td>
<td>Yes</td>
</tr>
<tr>
<td>Are Transfer Of Ownership Agreements completed?</td>
<td>Yes</td>
</tr>
<tr>
<td>Where are SWPPP documents located?</td>
<td>Premier Homes office at 1044 Oak Park Trail in Marion.</td>
</tr>
</tbody>
</table>
Other Comments on the Site/Project: The site generally looks good. Construction is active only on individual lots and homes and sediment is contained. Minor sediment tracking in streets, but appears to get cleaned up in a timely manner.

Deficiencies Found and Additions Required: None at this time.

Contractor Notification (Name, Notification Date, and Time of Notification): Notified via email on 8/31/17: Kyle Skogman (kskogman@skogman.com), Andy Becker (abecker@skogman.com)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Inspector's Signature

STEVE COOPER

Signed 2017-08-18 00:36:00 UTC

Photos
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<td>IDNR Permit #</td>
<td>27584-27372</td>
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<td>Owner Name and Contact Info</td>
<td>DAN WHITLOW, 1225 6TH AVE. SUITE 200 MARION IA 52302 (319)743-6340</td>
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<td>Weather Conditions</td>
<td>Some Clouds</td>
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<td>Erosion Controls</td>
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<td>Erosion Control Comments</td>
<td>None at this time.</td>
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<tr>
<td>Sediment Controls</td>
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<tr>
<td>Sediment Control Comments</td>
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</tr>
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<td>Adequate</td>
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</tr>
<tr>
<td>Trash Containment Comments</td>
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</tr>
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<td>Yes</td>
</tr>
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</tr>
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</tr>
<tr>
<td>Have contractor inspections been completed every 7 calendar days?</td>
<td>Yes</td>
</tr>
<tr>
<td>Is this site in compliance with topsoil requirements?</td>
<td>Yes</td>
</tr>
<tr>
<td>Are Transfer Of Ownership Agreements completed?</td>
<td>Not Applicable for this permit</td>
</tr>
<tr>
<td>Where are SWPPP documents located?</td>
<td>With the City inspector for the project.</td>
</tr>
<tr>
<td>Other Comments on the Site/Project:</td>
<td>No construction activities since last inspections. Site is stable and in good condition.</td>
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<tr>
<td>Deficiencies Found and Additions Required:</td>
<td>None at this time.</td>
</tr>
<tr>
<td>Contractor Notification (Name, Notification Date, and Time of Notification):</td>
<td>Report is on file with the City on 8/31/17.</td>
</tr>
</tbody>
</table>
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Inspector's Signature

STEVE COOPER

Signed 2017-08-18 01:41:04 UTC

Photos
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<th><strong>Sunburst Avenue/35th St.</strong></th>
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<td><strong>Project</strong></td>
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<td><strong>Inspector</strong></td>
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<td><strong>Public or Private</strong></td>
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<td><strong>Current Weather Conditions</strong></td>
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<td><strong>Last Rainfall</strong></td>
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<td><strong>Basin Condition</strong></td>
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<tr>
<td><strong>Vegetation Height</strong></td>
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<tr>
<td><strong>Action Needed</strong></td>
</tr>
<tr>
<td><strong>Inlet conditions and notes</strong></td>
</tr>
<tr>
<td><strong>Outlet conditions and notes</strong></td>
</tr>
<tr>
<td><strong>Does the basin have a significant amount of debris in it?</strong></td>
</tr>
<tr>
<td><strong>Are tree removal practices required?</strong></td>
</tr>
<tr>
<td><strong>Basin capacity compromised due to sedimentation?</strong></td>
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</table>

**Photos**

![Image of green grass and garden area]
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tr>
<td>Project</td>
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<td>2017-07-31 15:36:38 UTC by Steve Cooper</td>
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<td>Updated</td>
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<tr>
<td>Outfall General Location/Description</td>
<td>Southernmost outlet in hunters field detention basin</td>
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<td>Steve Cooper, Stormwater Coordinator</td>
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<td>Overall Structure Condition</td>
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