

THE CITY OF CEDAR RAPIDS 2014 ANNUAL REPORT

CEDAR RAPIDS MUNICIPAL SEPARATE STORM SEWER SYSTEM

**Iowa NPDES Permit Number: 57-15-0-05
EPA Number IA0075566
PERMIT ISSUED February 14, 2011**



July 31, 2015

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A. PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The City of Cedar Rapids continues to implement a public education and outreach program to educate the public on the impacts of various activities and pollutants on stormwater quality and quantity, as well as measures that residents of the City of Cedar Rapids can implement to reduce pollutants in stormwater runoff.

1. GENERAL STORMWATER EDUCATION MATERIALS

The City of Cedar Rapids distributed stormwater advocacy materials using a variety of methods, as well as facilitated and participated in numerous stormwater educational events. The following is a list of the City's efforts and accomplishments with regards to its duty to promote stormwater management and pollution prevention practices:

- “Welcome Packets” continue to be distributed by the City to every new utility account customer. The packets detail stormwater management and water pollution prevention. The stormwater “welcome packet” was updated and distributed to 364 new residents in 2014.
- The City of Cedar Rapids continues its membership in the Iowa Stormwater Education Program (ISWEP). This program was created in 2004; resources provided by ISWEP include educational materials, technical services, watershed assessment, certification programs, training, workshops, and conferences. New outreach materials are received quarterly. Outreach materials include pamphlets, brochures, DVDs, pocket guides, and stormwater event paraphernalia.
- The quarterly City publication titled, “OurCR,” continues to publish articles of noteworthy value to the City's outreach goals, including in 2014: the iGreenCR initiative promoting the “Scoop the Poop” stormwater element, solicitation of community involvement for making improvements along the Cedar River through Greenway Work in selected City parks, promotion of the Earth Day celebration at Eco Fest where numerous booths were City-sponsored including one for stormwater, awarded funding that will focus efforts on improving and protecting water quality in the Cedar River Watershed, and methods that residents can adopt to improve water quality and reduce runoff in the Cedar River Watershed.



- The City of Cedar Rapids continues to participate in annual events where stormwater education material is distributed and/or stormwater topics are demonstrated. In addition, stormwater and other City staff attend various events throughout the year as they arise. Table 1 lists 2014 outreach events attended by City staff.
- The City continues to develop new educational materials that are made available at events, mailings, and via the City's Stormwater Program website. This includes new brochures covering:
 - Illicit Discharge
 - Resident Pollution Prevention
 - Emptying of Swimming Pools
 - Disposal of Yard Waste
 - Drainage Easements
 - Maintenance of Private Detention Basins
- New educational letters have been created that get distributed as part of various programs. These include:
 - Private post-construction stormwater facilities letter that outlines the role of these structures and the importance of their maintenance. This letter gets distributed to every owner whose private stormwater facility is inspected.
 - Yard waste disposal letter that outlines the impacts of improper disposal and provides proper disposal options. This letter gets distributed to addresses reported as disposing of leaves in the street.
 - General illicit discharge education letter that describes what an illicit discharge is, health, safety, and environmental implications, and how to recognize, prevent, and report illicit discharges. This letter gets distributed to illicit discharge violators as well as surrounding residents and/or businesses, when applicable.
- The City reviews and updates, where necessary, all educational materials on an annual basis. An outreach matrix has been put in place that outlines stormwater topics, avenues of outreach and communication, and annual scheduling of outreach and communication for each of the topics (Table 2).

Table 1: 2014 Stormwater outreach events attended by City staff.

Date	Event	Topic	Presenter(s)
January	Future City	General Stormwater	Tera Prucha
February	STEM Night at Library	General Stormwater	Tera Prucha
4/26/2014	Eco Fest	iGreenCR, Stormwater	Tera Prucha
4/7/2014	Recycling, Litter, Stormwater	Presentation to boyscouts	Megan Murphy-Salyer
4/9/2014	iGreenCR	Presentation to Iowa Parks & Recreation Association	Megan Murphy-Salyer, Daniel Gibbins
4/22/2014	iGreenCR	Ecofest	Megan Murphy-Salyer
4/17/2014	Kirkwood Community College Environmental Geology	Waste water treatment, storm sewers vs. sanitary sewers etc.	John Ernst (Speaker)
5/3/2014	iExplore STEM-McKinley Middle School	Promote STEM	Haley Roe
5/3/2014 & /5/17/2014	CeanUpCR	Disposal of household items, electronics, woodwaste, household hazardous materials, and scrap metal	Megan Murphy-Salyer
5/7/2014	Mt. Mercy University Environmental Health	Discuss medication disposal options in Linn County and how the facility supports public health	Mike Kuntz, Megan Murphy (Guides & Presenters)
5/22/2014	Water Quality	Presentation to 9th Grade Science class on water quality	Megan Murphy-Salyer
May	STEM Festival		Tera Prucha
5/28/2014	Washington High School AP Biology	Waste water treatment, storm sewers vs. sanitary sewers etc.	Kelly Seery (Presenter)
6/7/2014	Resident Appreciation Day/iGreenCR	General Stormwater Education	Megan Murphy-Salyer
6/12/2014	Water Quality	Scheduled Meeting/Outreach	Megan Murphy-Salyer

June	Resident Appreciation Day	General Stormwater	Various
7/14/2014	Sewer Pilot Study & Litter	Kenwood Park Ice Cream Social	Megan Murphy-Salyer
7/19/2014	Go Green Day	Water Wise and Litter Collection	
7/26/2014	DIY Rain Barrel Class	Chance for residents to build their own rain barrels	Holly Ruble
8/16/2014	Clean Stream and Waterways: Yes We Can	Inform public and spark interest in water quality of Indian Creek	Kasey Hutchinson
10/29/2014	CSC Open House	Scoop the Poop, Sewer Operations	Multiple
11/12/2014	Flash Flood Workshop	Discuss programmatic approaches by the City of Cedar Rapids	Kasey Hutchinson, Sandy Pumphrey (Presenters)

Table 2: Outreach matrix showing stormwater topics, selected outreach and communication tools, and scheduling of outreach and communication efforts.

Topic	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Automotive Repair	■											
Pollution Prevention/Good Housekeeping			■									
Resident Stormwater PP			■				■					
Volunteer Programs Promotion				■								
Volunteer Programs Recognition									■			
Lawn Care				■	■	■						
Janitorial Services				■								
EcoFest				■	■							
Stay P-Free					■	■						
Car Washing for Residents						■	■					
Clean Water Act Anniversary										■	■	
Swimming Pools								■	■	■		
Pesticide/Fertilizer Management		■										
Carpet Cleaning Services			■									
Erosion and Sediment Control			■									
Scoop the Poop			■	■								
Commercial Car Wash				■								
Food Service							■					
Residential Yard Waste									■	■		
ISWEP Metro Workshops												■
KEY												
Brochure	■					Press Release	■					
Website	■					Event	■					
Training	■					Neighborhood Newsletter	■					
Utility Insert	■					Social Media/Text Caster	■					
City E-Newsletter	■					NNL/SM/TC,	■					

2. WEBSITE

The City of Cedar Rapids Stormwater Program completed an overhaul of the website to update and incorporate new content. The website continues to be developed and maintained providing an easy portal to general stormwater information, guidance documents, community events, and city policies, and provide a tool to elicit community involvement. The Stormwater Program main page can be accessed at www.CityofCR.com/stormwater. Figure 1 is a screen capture of the updated Stormwater Program main page. Website visits for 2013 and 2014 are shown in Figure 2.

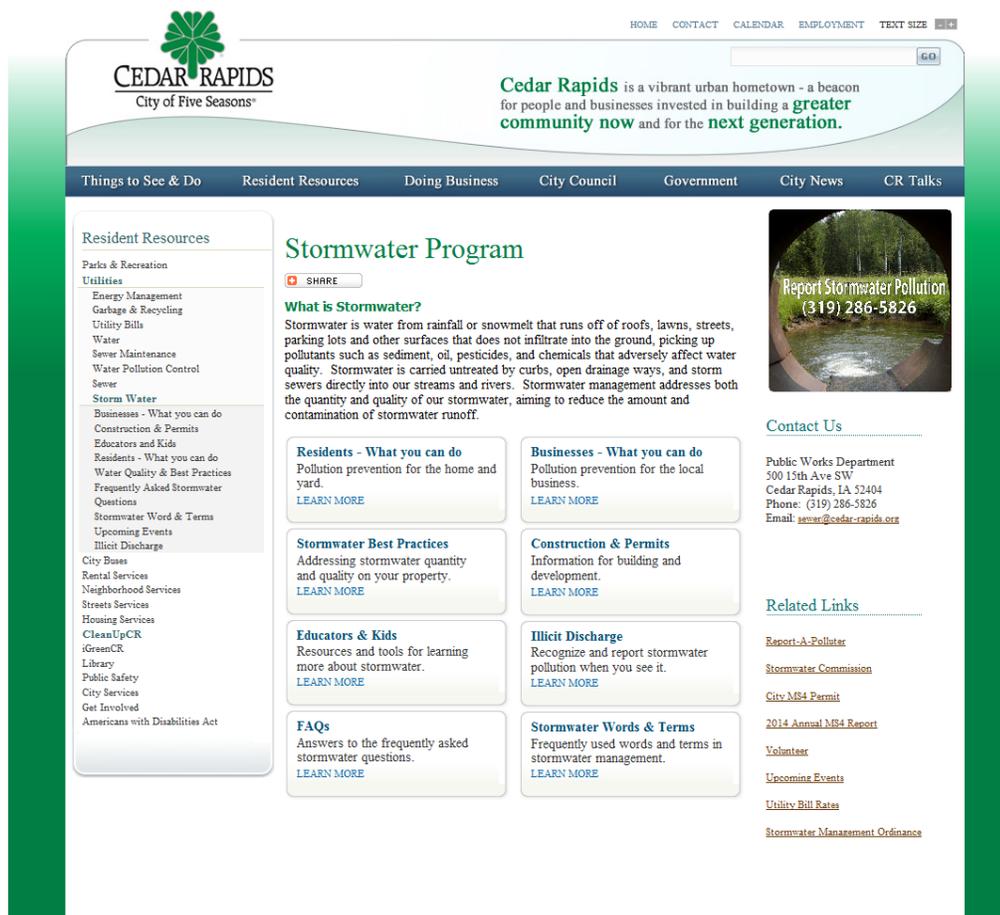


Figure 1: Screen capture of the City of Cedar Rapids Stormwater Program website, updated November 2014.

Month	Visits	
	2013	2014
JAN	134	52
FEB	115	61
MARCH	87	
APRIL	92	54
MAY	85	24
JUNE	81	16
JULY	79	21
AUG	46	23
SEPT	68	20
OCT	77	30
NOV	67	14
DEC	52	7

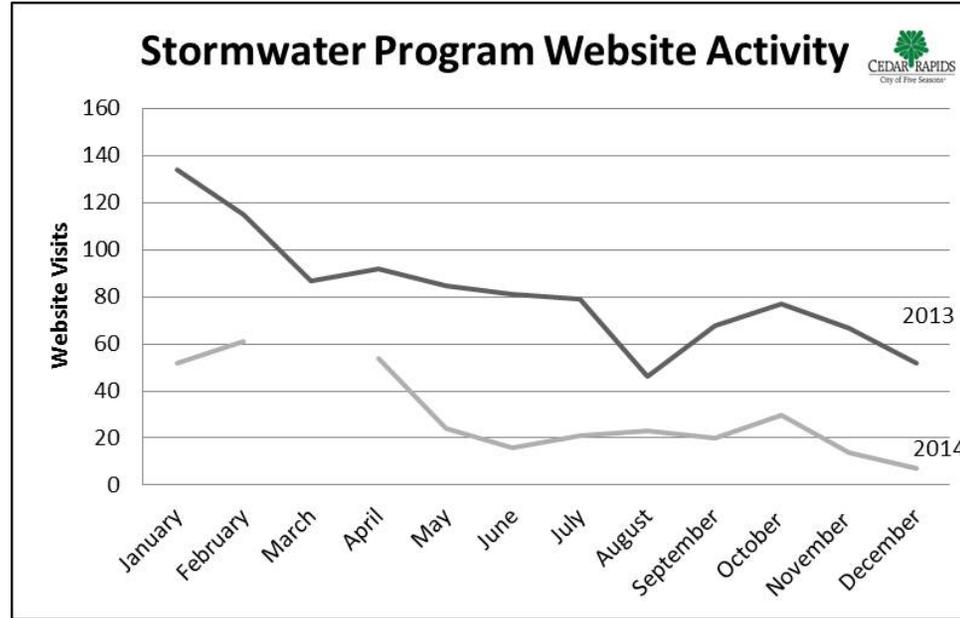


Figure 2: Table and plot of Stormwater Program website visits for 2013 and 2014.

3. PRIVATELY OWNED STORMWATER STRUCTURAL CONTROLS

The manual titled “Best Management Practice for Maintenance of Private Stormwater Facilities” was extensively modified and is posted on the City of Cedar Rapids Stormwater Program website. The manual includes a description of maintenance and inspection tasks that should be followed to ensure stormwater is flowing in and out of the structural control per design. The manual, and how it can be accessed, is noted in each letter that is mailed to private stormwater facility owners. In addition, a tier of basin letters was developed based on basin condition and level of maintenance required, including good, okay, Notice to Comply, and Notice of Violation. The letters describe the current status of the basin and any necessary maintenance or corrective actions recommended/required. In addition, the letter describes the role of stormwater structural controls and the importance of their maintenance. Starting in 2014, the owner of every private stormwater facility inspected receives a letter regardless of basin status. An educational private stormwater facility maintenance brochure, created in 2014, also accompanies every letter.

The Department of Public Works has a policy of consulting with private property owners, as time allows, on a wide range of drainage, erosion control, and stormwater management issues.

B. PUBLIC INVOLVEMENT AND PARTICIPATION

The City of Cedar Rapids continues to implement a public involvement and participation program.

1. STORMWATER POLLUTION HOTLINE

The 24/7 stormwater pollution hotline (319-286-5826) continued to be used by the public in calendar year 2014. The hotline number is prominently placed on the stormwater website, and is included in educational material. The hotline also receives feedback from residents on other municipal infrastructure. Received calls are logged in the maintenance department work order system as work requests. A total of 139 calls were explicitly assigned to either the Stormwater Coordinator or Erosion Control Specialists, as compared to 41 work requests in 2013 and 7 work requests in 2012. The increase in work requests is attributed to public education efforts and internal training of personnel to correctly identify feedback as stormwater related.

2. STORMWATER ADVISORY COMMISSION

The City of Cedar Rapids Stormwater Commission met every two months for a total of 6 meetings in 2014. All meetings are open to the public and posted on the City website. Agendas and minutes are also available on-line:
http://www.cedar-rapids.org/government/departments/public-works/engineering/stormwater/Pages/Stormwater_Commission.aspx

3. OTHER ACTIVITIES

In addition to the Stormwater Hotline and Commission, city staff participated in the following programs to facilitate public involvement:

- City of Cedar Rapids staff continued to participate in the Cedar River Watershed Coalition, a group of stakeholders and interested citizens that meet on a regular basis to facilitate cooperation within the watershed.
- Cedar Rapids staff continues to be integral members of the Indian Creek Watershed Management Authority (ICWMA), participating in both the ICWMA Board and Technical Committee. More information is available at: <http://indiancreekwatershed.weebly.com/>
- Cedar Rapids staff continues to work with various watershed groups in the City to support efforts and help identify resources for funding stormwater management. Most recent efforts include working with the Friends of Cedar Lake in promoting on-the-ground stormwater practices and identifying funding sources.

C. ILLICIT DISCHARGES

The City of Cedar Rapids continues to implement and enforce a discharge detection and elimination program.

1. ILLICIT DISCHARGE PROHIBITION ORDINANCE

The illicit discharge ordinance is provided by the City of Cedar Rapids Municipal Code chapters: 9-Streets, Alleys, and Sidewalks, 13-Wastewater Facilities, 71-Erosion and Sediment Control for Construction Sites, and 72-Stormwater Management Ordinance.

Chapter 9.09A of the Cedar Rapids Municipal Code stipulates:

- No person, firm, or corporation shall place or deposit any yard waste as defined in Section 24.01 of the Municipal Code, except to include stumps, in or on any street, alley, storm sewer, catch basin, or sidewalk, except leaves may be deposited and placed in streets for such time periods as determined by the City Manager. Limbs which are downed as a result of storms and placed at locations as defined in Section 24.06 of the Municipal Code may be picked up by the Street Department after storms but only at times authorized by the City Manager or his duly authorized representative. Nothing contained in this subsection shall alter or modify the provisions of Chapter 24 of the Municipal Code relating to municipal collection of solid waste.

Chapter 13.07(b)2 of the Cedar Rapids Municipal Code stipulates the following use of public storm sewers::

- No wastewaters except unpolluted waters and wastewater allowed by a NPDES permit shall be discharged to storm sewers.

Chapter 72.203(g) states:

- The City Engineer may inspect the site(s) at any time to determine compliance with [stormwater management] regulations.

Chapter 72.203(h) states:

- Upon determination that a site is not in compliance with [stormwater management] regulations, the City Engineer may issue an order to comply. The order shall describe the problem and specify a date whereby the work must be completed, and indicate the penalties to be assessed for further noncompliance.

Municipal Code definitions:

- Storm sewer
 - A public sewer that carries storm, surface and groundwater drainage but excludes wastewater other than unpolluted water. [13.01(h)4]

- Wastewater
 - The spent water of a community. It may be liquid or a combination of liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions, together with any ground, surface or storm water. [13.01(g)1]
- Unpolluted water
 - Water of quality equal or better than the applicable effluent criteria in effect under the State or Federal Act or water that would not cause violation of receiving water quality standards under the applicable act and would not be benefited by discharge to the sanitary sewers and wastewater treatment facilities provided. [13.01(g)5]
- Site
 - A lot, parcel, or tract of land, or portion thereof, where development is occurring, or has occurred, and may, or may not, require additional permits.
- Yard Waste
 - Materials, as designated by the City of Cedar Rapids and set out in Schedule "B," that would otherwise become solid waste that can be source separated, collected, processed, and returned to the economic stream in the form of raw materials or products.

2. ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM (IDDE)

Dry weather flow inspections of outfalls

The Illicit Discharge Detection and Elimination (IDDE) Program includes an annual dry weather flow inspection of all outfalls not already inspected since flows from newly developed or re-developed areas have been discharged from the outfalls, sampling and analyses of these dry weather flows, procedures to identify the sources of the dry weather flows and procedures for disconnecting illicit connections.

Outfalls are also known as a “point source”. A point source discharge as defined by 40CFR1.122.2 (2011) is the point where a municipal separate storm sewer discharges to waters of the United States.

In 2014, 67 outfalls were screened during dry weather conditions, versus 29 inspections in 2013. The results of these screening is contained in APPENDIX A: SUPPLEMENTARY INFORMATION.

Dry weather screening goals for 2015 will carry over from 2014; 65 outfalls will be inspected with half of these outfalls being geolocated to update the City GIS database. Additionally, a map will be generated that identifies all the current outfalls that are inspected on a rotating basis.

Illicit discharge elimination

All illicit discharges are eliminated within 21 days of discovery unless the IDNR is otherwise informed. In 2014, the City investigated 18 illicit discharge reports involving oil, car wash water, concrete wash water, roof coating, grass clippings and leaves, muddy debris, and unknown substances (Table 3). In all cases, the discharge was eliminated and cleanup was conducted where necessary. Educational letters, brochures, Notices to Comply, and Notices of Violation were issued accordingly. Training administered by City staff was provided in one case involving concrete wash water; this training has been offered to all local concrete ready-mix companies and will continue to be administered as necessary and requested. The City also co-administered Concrete Washout and Illicit Discharge training with ISWEP in December, open to the public.

A total of 14 sanitary sewer overflows were reported in 2014. Of these, three were bypasses to the environment, and the remaining were backups into homes. Of the three sanitary bypasses, two were caused by inclement weather.

The City Solid Waste Division began collecting addresses during leaf pick-up routes where grass clippings and leaves were placed in the street along the curb. Informative brochures were sent to all reported addresses.

Table 3: 2014 Illicit Discharge Investigation Inventory

Date	Nature of Violation	Address	Work Request No.	Actions/Results
2/21/14	Oil	5919 Purple Dr NE	None Created	Situation assessed by Fire Department; oil sheen observed, but no notable puddles to clean up. Speculated source (vehicle parked over winter) was removed from site. Flyers distributed to the 400 block of Crimson Dr.
4/10/14	Oil Saturated Soils	931 16th Ave SW	14-002046	Fire Department required responsible party to conduct clean up. Vehicle responsible for discharge removed from site.
4/10/14	Liquid from hose discharged into alley	2012 C Street SW	NA; No Actions Necessary	No illicit discharge observed.
6/10/14	Carwash	171 1/2 Jacolyn Dr NW		Notice of Violation issued; corrective actions including correcting the connection from storm to sanitary and discontinuing use of the outside wash area. Corrective actions completed.
8/27/14	Concrete Wash/Waste	1608 6th Ave SE	14-005673	Discharge Ceased; letter issued to both companies
8/29/14	Concrete Wash/Waste	1608 6th Ave SE	14-005673	Discharge Ceased; letter issued to both companies
8/12/14	Roof Coating	3421 Blairs Ferry Rd NE	14-005418	5 Seasons Mobile Home Park cleaned up contaminated area; issued letters to violator and surrounding residents
8/14/14	Oil-looking substance	Robins Lake NW	NA; No Actions Necessary	Substance investigated; determined to be algae
8/28/14	Grass Clippings in Street	29th Ave SW/Bowling St SW	14-005685	Issued letters to violators
9/1/14	Leaves in Street	2623 Wilson Ave SW	14-005734	Issued letters to violators

10/10/14	Fermentation Product	436 G Ave NW	14-006350	Diamond V stopped overflow, cleaned up parking lot
10/14/14	Grass Clippings in Street	302 Cobblestonr Dr NW	14-006324	Issued letters to violators
11/6/14	Oil Substance	1st St. NW	14-006649	CRFD placed floating booms at outfall to absorb oil; investigated, unable to locate source. Discharge discontinued.
12/2/14	Muddy Debris	1st St. SE	14-006895	Investigated, work was complete. Mailing letter to Trey Electric as first offense action.
12/9/14	Concrete Washwater	2060 Glass Rd. NE	14-006955	City staff investigated; discharge stopped. Educational outreach meeting scheduled with Croell in January.
12/16/14	Concrete Washwater	3rd St SE	14-007019	City staff observed a concrete truck entering an abandoned site; learned of intent to and prevented washout.
12/29/14	Leaves in Street	650 Staub Ct NE	14-007075	Mailed letter to resident

D. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

The City of Cedar Rapids implements and enforces a construction site stormwater runoff control program to reduce pollutants in any stormwater runoff from construction activities for which stormwater permit coverage is required.

1. CONSTRUCTION SITE RUNOFF CONTROL ORDINANCE

The City of Cedar Rapids Municipal Code maintains Chapter 71: Erosion and Sediment Control for Construction Sites as the ordinance governing construction site runoff.

Enforcement of City regulations continues to progress. New enforcement procedures were finalized in the fall of 2014 for sediment and erosion violations on construction sites. These procedures grant the Erosion Control Inspectors authority to assess monetary penalties, in the form of environmental infractions, for violations of the provisions of approved erosion control plans. Prior to this, the City utilized other alternatives as enforcement penalties including Stop-Work orders, performing corrective actions and assessing the cost to the owner, and withholding permits.

2. CONSTRUCTION SITE REVIEW AND INSPECTION PROGRAM

The City of Cedar Rapids construction site review and inspection program continues to grow alongside residential and commercial development with the hiring of an additional Erosion Control Specialist in 2014. The additional support in overseeing proper implementation of sediment and erosion control practices on all types of construction sites has elevated the City of Cedar Rapids from a reactive status, in many cases, to one that is proactive in the enforcement of General Permit No. 2 requirements and Chapter 71 Municipal Code. Data for 2014 inspections is presented in Table 4.

Another way in which the City's construction site review and inspection program continues to thrive is through the implementation and further development of the City's interactive Erosion Control website. In the fall of 2014 the City began the test phase, which entailed training developers and contactors on a continual site usage and how to provide feedback to make the site more compatible with their needs. The test phase has generated a number of functionality improvements that benefit both the City and the site's users. Website development is scheduled to be completed by the end of 2015.

Table 4: Inspection and mailings data for 2014

Inspections Performed		Year 2013
New Residential Lot Development SFD (Single Family Dwelling)		195
New Residential Lot Development MFD (Multi-Family Dwelling)		24
Estimated Sites Under a NPDES General Permit #2	~143/Qtr	~572
NPDES General Permit #2 Follow-up's	~45/Qtr	~180

NPDES General Permit #2 NOD's	~24
NPDES General Permit #2 NOI's	~40
Reports/ Notices Mailed Out	
NPDES General Permit #2 QTRLY Inspection Reports	~572
DEFICIENCY CORRESPONDENCE (SFD) (OFFICIAL EMAIL)	18
NOTICE TO COMPLY (SFD & MFD)	45
NOTICE TO COMPLY (NPDES GP2 Sites)	3
NOTICE OF VIOLATION (SFD or MFD)	7
NOTICE OF VIOLATION (NPDES GP2 Sites)	6

E. POST CONSTRUCTION STORMWATER MANAGEMENT

The City of Cedar Rapids continues to implement and enforce a program to address stormwater runoff from new construction and re-construction projects for which stormwater coverage is required. The program ensures that controls are in place that prevent and/or minimizes water quality impacts.

1. CONSTRUCTION SITE RUNOFF CONTROL POLICY ORDINANCE

The City of Cedar Rapids Municipal Code maintains Chapter 72: Stormwater Management as the ordinance to provide the means to enforce the operations and maintenance of runoff from developed sites. The ordinance contains a stormwater rate structure as well as requirements to maintain detention basin capacity and design outfall flowrates.

2. INSPECTION OF RUNOFF CONTROL DEVICES

City staff performs inspections of public and private runoff control devices. These devices include detention basins, conveyance structures, and street stormwater inlets. Public basins are inspected annually, with a focus on inlet and outlet structures, basin sedimentation loading, and proper vegetative maintenance. Private detention basins are inspected on a 10 year cycle. Similar attributes to the public basins are inspected; the results of the inspection are then communicated to the basin owner with the request for maintenance should any be necessary. Beginning in 2014, an inspection letter is sent to each private basin owner whose basin is inspected. These letters explain the role of detention basins and the importance of maintaining them, along with a request for maintenance actions resulting from the inspection. An educational brochure summarizing pertinent maintenance information accompanies every letter.

- Public basins inspected: 80/80
- Private basins inspected: 31/740
- Inspection inventories are listed in Appendix A

3. INSPECTION OF STRUCTURAL CONTROLS

A total of 2,094 storm sewer structures were inspected and labeled using GPS-based equipment. The collected information is then downloaded off the GPS equipment into GIS for processing and work order generation. A map of the inspected inlets from 2009 to present is in Appendix A.

The storm structure inventory goal for 2014 remains 2,000 structures which is approximately 10% of the total storm structures in the City.

4. WATERSHED ASSESSMENT PROGRAM

The City continues to focus on land use policies and programs to reduce flooding and erosion, and improve water quality and wildlife habitat. Some activities and initiatives that the City lead or participated in during 2014 to meet these goals include:

- The City of Cedar Rapids participates in the Indian Creek Watershed Management Authority in the capacity of board member and technical team members, as well as general participation in regular open-session meetings. A comprehensive watershed assessment was completed in 2014 with action items and initiatives currently under development as a result of the 2014 assessment results. The City of Cedar Rapids continues to attend meetings and assist in action and initiative development.
- City of Cedar Rapids staff participate in multiple forums and groups that support efforts to improve water quality and promote flood management practices, including the Cedar River Watershed Coalition and the Middle Cedar Partnership Project (MCP). The Cedar River Coalition includes legislators, city officials, county officials, soil and water conservation district commissioners, farmers, business peoples, environmentalists, and other concerned citizens. Led by the City of Cedar Rapids, the Middle Cedar Partnership Project (MCP) focuses on working with local conservation partners, farmers and landowners to install best management practices to help improve the water quality of the Cedar River Watershed.
- The Sewer Division formed an Alternative Funding Committee in fall 2014 whose main role is to identify and match City projects in need of funding, as well as known localized flooding and/or water quality issues, with appropriate funding opportunities. A couple goals of the committee are to collaborate with other entities or watershed groups in the City to implement flood mitigation/water quality improvement projects, fund watershed assessment efforts, and create additional WMAs to leverage future funding for assessment efforts.
- The City of Cedar Rapids completed and adopted "EnvisionCR," the City's comprehensive plan that outlines the vision for the City's future in the next 20 years. The plan outlines goals and initiatives for achieving this future vision. One of the goals of the plan is to practice sound resources management in

reaching the outlined vision. As part of the development of this goal, a number of watershed and habitat characteristics were combined and assessed to identify critical natural resource areas. These areas are designated as priority for preservation and to be protected through planning so as to maintain existing natural resource functions such as erosion prevention, watershed protection, some level of flood mitigation, wildlife and habitat protection.

- The Public Works Division continues to reconstruct the City Stormwater Master Plan. This plan identifies both near term and long term stormwater management needs, as well as outlines funding strategies and recommendations. The plan is constructed to address and support the City comprehensive plan objectives and Council goals.
- The long-term goal for the watershed assessment program continues to be formalization of the program with a focus on physical assessment, water quality monitoring, and real-time data processing and access. The more immediate goals for 2015 include:
 - Placement of rain sensors at various City locations.
 - Placement of a pilot in situ water quality monitoring station.
 - Coordinate annual water quality and assessment activities with local organizations to begin to build momentum and support for public participation in stewardship events.
 - Locate funding opportunities and assist and collaborate with local organizations to develop additional Watershed Management Authorities.

F. POLLUTION PREVENTION/GOOD HOUSEKEEPING

The City of Cedar Rapids continues implementing an operation and maintenance program, including a training component, that prevents and/or reduces pollutant runoff from municipal operations.

1. OPERATION AND MAINTENANCE OF MS4

Operation and maintenance of the approximately 520 miles of storm sewer and 670 miles of sanitary sewer is performed by the Cedar Rapids Public Works Sewer Maintenance Division. Maintenance personnel filed 957 storm sewer work orders in 2014 amounting to approximately \$1.8M of work. These efforts included but were not limited to, storm conduits and structure point repairs, ditching, and CCTV inspection.

Public Works Streets Maintenance Division is responsible for street sweeping approximately 620 miles of public streets. The Streets Maintenance Division continues to utilize a variety of methods to manage the amount of salt used on City streets during the winter. Stockpiles remain covered and stockpile sizes are managed to avoid having unnecessary amounts of salt on hand and limit runoff. The City uses a brine that is only about 38% salt. Application of the brine is restricted to hills, curves, and intersections, using the flow of traffic to help spread the material. In addition, the spreader trucks

direct the material to the desired locations by applying in targeted application streams versus broad application.

Multiple litter collection events continued during 2014 in conjunction with the City Manager's ongoing "1 Bag Challenge" helping to further reduce the amount of material entering into the storm sewer system. A total of 2,030 bags of litter were collected removing approximately 33 tons of illegally dumped items including 199 tires, 28 appliances, and 56 TV's.

2. PESTICIDE AND FERTILIZER MANAGEMENT PROGRAM

The Public Works Department's weed control program is limited to spot spraying of weeds on hard surfaced areas such as roadway medians. All application is performed by State-licensed applicators and in compliance with current State law and recommended practices for weather conditions, application, and cleanup. Personnel applying fertilizers and pesticides receive yearly training per State license requirements.

Standard Operating Procedures were developed in 2014 for all divisions that handle and apply pesticides and fertilizers. In addition, pesticide and fertilizer application assessment metrics were developed to be used by each division to determine if application rates may be reduced. These metrics include the installation of measures and adoption of practices that, when implemented, reduce required application rates. Many of these practices are currently being implemented by the various divisions. Assessment metrics will be reviewed, modified, and updated on an annual basis.

3. TRAINING PROGRAM FOR MUNICIPAL EMPLOYEES

Ongoing training and events were held throughout 2014 for municipal employees with job functions that could impact stormwater quality as well as the continued advancement of professional licensing and educational materials. The following is a list of highlights from 2014:

- December 17th, Construction Engineering staff participated in Stormwater BMPs for Concrete training, facilitated by ISWEP, the City of Marion, the City of Hiawatha, and the City of Cedar Rapids.
- December 3rd, Water Pollution Control and Construction Engineering staff participated in the Iowa Certified Inspection & Maintenance Program for Stormwater Best Management Practices Workshop, facilitated by ISWEP.
- November 5th, Sewer Maintenance staff participated in "Stormwater Best Management Tour: Water Quality & Flood Control Practices," sponsored by ISWEP.
- September 18th, Sewer Division staff participated in the Iowa Certified Inspection & Maintenance Program for Stormwater Best Management Practices Workshop certification and training facilitated by Pat Sauer and Stacie Johnson with ISWEP.

- September 30th, Sewer Division staff participated in the Iowa Certified Construction Site Pollution Prevention Inspector Training facilitated by Pat Sauer of ISWEP.
- April 11th, Sewer Division staff participated in RASCAL Watershed Assessment training facilitated by the IDNR.
- March 19th and 20th, various City staff participated in a webinar titled, “The Basics of Hydraulics and its Use in Streambank Stabilization.”
- March 3rd & 4th, various City staff attended the Iowa Water Conference, “Making Connections-Solving Problems,” held at Iowa State University.
- February 27th, Sewer Division staff participated in training titled, “Rain Gardens, Bioretention Cells, Bioswales: Design, Installation, Maintenance,” facilitated by ISWEP.
- Ongoing Hazard Communication training is held monthly at new hire orientation by the City Employee Safety Program Manager, Dave Beastron.

4. CITY FACILITIES BMPS

The Public Works facility was demolished in the fall of 2013. A new operations warehouse was completed in the fall of 2014. The SPCC plan is currently being updated for the new facility.

Every year, the Department of Public Works and the Water Pollution Control Facility hire an environmental consulting firm to conduct an inventory of onsite hazardous chemicals. Experts analyze the storage facilities and report findings.

The Water Pollution Control Facility has a formal Stormwater Pollution Prevention Plan outlining potential stormwater risks and the Best Management Practices implemented to address stormwater risks. While this is the only City facility required by the EPA to have a facility SWPPP, municipal facilities implement universally applicable BMPs, including covered dumpsters, prohibition of discharge of non-stormwater resulting from municipal activities to the storm sewer, covered salt storage, proper application of pesticides and fertilizers by certified applicators, and keeping spill kits on hand where necessary.

G. MONITORING INDUSTRIAL AND HIGH RISK RUN-OFF

Part II, Section G, of the Cedar Rapids NPDES MS4 permit, requires the city to have a program to monitor Industries and high risk run-off. Identified “313” Industries were obtained from the USEPA website; the list is dated 2014. Table 5 provides a summary of the information collected from each entity. A copy of the survey and letter utilized to obtain the below information is included in Appendix A.

Table 5: List of 313 Facilities for which survey information was collected for 2014.

313 Facility Name	Survey Returned to City	Subject to SARA Sec. 313	Storm Water Mgmt Plan	Sampling Completed for 2014	Last Year Sampled (prior to 2014)	Industrial Waste Discharge Permit	Storm Water Inspection by City
ADM CORM PROCESSING	Yes	Yes	Facility review 2014	Yes	2013	Yes	Date: 11/7/2014
ADM DRY GRIND FACILITY	Yes	Yes	Facility review 2014	Yes	2013	Yes	Date: 11/5/2014
BIO SPRINGER NORTH AMERICA CORP	No	Yes	Facility review 8/17/2011	Red Star samples the shared outlet w/ Bio Springer	2013	Yes under Red Star Yeast's Permit	Date: 8/28/2014
CARGILL INC. 411 6 TH ST NE	Yes	Yes	Facility review March 1, 2009	Yes	2013	Yes	Date: 10/1/2014
CARGILL CORN INC 1110 12 TH AVE SW	Yes	Yes	Facility review June 1, 2013	Yes	2013	Yes	Date: 9/12/2014
CARGILL INC (CORN MILLING 1710 16 TH SE)	Yes	Yes	Facility review Aug-11	Yes	2013	Yes	Date: 12/12/2014
CLIPPER WINDPOWER INC	No	No Exposure Cert. 1/7/2013	Facility review 10/2011	Yes	Not known	No	Date: 11/20/2014
DUPONT (GENENCOR INTERNATIONAL)	Yes	Yes	Facility review 7/31/2012	Yes	2013	Yes	Date: 9/17/2014
DIAMOND V MILLS INC.	Yes	Yes	Facility review 1/30/2010	Yes	IDNR Exclusion	Yes	Date: 4/2/2014
ELECTRO-COATINGS OF IOWA	Yes	Yes	Not known	Yes	2013	Yes	Date: 12/17/2014
HIGHWAY EQUIPMENT CO	No	Yes	No SWMP	Yes	2013	Yes	Date: 12/22/2014
INTERNATIONAL	Yes	Yes	Facility	Yes	2013	Yes	Date:

PAPER CO			review Oct-12				6/5/2014
IOWA SPECIALTIES INC	Yes	Yes	Facility review 9/1/2009	Yes	2013	Yes	Date: 12/15/2014
JE ADAMS INDUSTRIES LIMITED	No	Yes	No	No	No exposure cert.	No	Date: 11/6/2014
KLINGER PIANT CO	No	Yes	Facility review 7/2/1997	Yes	2013	Yes	Date: 11/18/2014
PENFORD PRODUCTS CO	Yes	Yes	Facility review Dec-12	Yes	2013	Yes	Date: 11/20/2014
PMX INDUSTRIES INC	Yes	Yes	Yes	Yes	2013	Yes	Date: 11/4/2014
PRAIRIE CREEK GENERATING STATION	No	Yes	Facility annual review	Sampling requiremen ts supplant 313	2012	Yes	Date: 12/5/2014
RED STAR YEAST COMPANY	No	Yes	Facility review Sep-09	Yes	2013	Yes	Date: 7/31/2014
ROCKWELL COLLINS, INC. C AVENUE FACILITY (400 Collins Rd NE)	Yes	Yes	Facility review Oct-13	Yes	2013	Yes	Date: 12/8/2014
SCHNEIDER ELECTRIC (Square D)	Yes	Yes	Facility review 9/18/200 6	Yes	2013	Yes	Date: 12/22/2014

2014 Dry Weather Screening Results

Outfall	Replaced O/F	Date	Time	Watershed*	Land use	Flow (cfs)	Odor	Color	Clarity	Flocculables	Deposits/debris	Vegetation	Biological	Copper mg/L	Detergents mg/L	Phenol mg/L	pH Field SU	Chlorine mg/L	Temp °C
SS036		8/13/2014	1:15 PM	WCR	Res/Comm	1.2	none	clear	clear	none	light staining	normal	ND	ND	ND	ND	7.9	1.5	20.1
SS036		8/14/2014	10:30 AM	WCR	Res/Comm	1.20	none	clear	clear	none	light staining	normal	ND	ND	ND	ND	7.9	ND	20
SS040		9/25/2014	8:30 AM	PC	Res/Comm	0.275	none	clear	clear	none	colored stain	normal	algae	ND	ND	ND	8.4	ND	20.8
SS040		9/25/2014	12:45 PM	PC	Res/Comm	0.28	none	clear	clear	none	colored stain	normal	algae	ND	ND	ND	8.4	ND	20.8
SS044		8/13/2014	12:15 PM	CH	Res	nominal flow	none	clear	clear	brown foam	light staining	normal	ND	ND	ND	ND	8.1	ND	20.3
SS044		8/14/2014	9:55 AM	CH	Res	nominal flow	none	clear	clear	brown foam	light staining	normal	ND	ND	ND	ND	8.0	ND	19.7
SS048		7/16/2014	2:30 PM	PC	Comm	0.06	none	brown	cloudy	trash, leaves	none	normal	fish	ND	ND	ND	8.5	ND	21.3
SS048		7/17/2014	9:30 AM	PC	Comm	0.06	none	brown	cloudy	trash, leaves	none	normal	fish	ND	ND	ND	8.6	ND	21.5
SS049		7/16/2014	3:05 PM	PC	Comm	0.06	none	clear	clear	none	none	normal	frogs	ND	ND	ND	8.1	ND	21.4
SS049		7/17/2014	9:45 AM	PC	Comm	0.06	none	clear	clear	none	none	normal	frogs	ND	ND	ND	8.3	ND	21.3
SS055		8/13/2014	10:45 AM	VV	Res/Comm	nominal flow	none	clear	clear	none	light staining	none	ND	ND	ND	ND	8.1	ND	19.9
SS055		8/14/2014	9:20 AM	VV	Res/Comm	nominal flow	none	clear	clear	none	light staining	none	ND	ND	ND	ND	8.1	ND	19.2
SS069		8/13/2014	4:20 PM	IC	Res/Comm	0.125	none	clear	clear	none	stream bed	normal	fish	ND	ND	ND	8.0	ND	19.1
SS069		8/14/2014	11:50 AM	IC	Res/Comm	0.125	none	clear	clear	none	stream bed	normal	fish	ND	ND	ND	8.0	ND	19.2
SS070		8/13/2014	4:00 PM	IC	Res/Comm	nominal flow	none	clear	clear	none	light staining	normal	ND	ND	ND	ND	8.0	1.3	21
SS070		8/14/2014	10:55 AM	IC	Res/Comm	nominal flow	none	clear	clear	none	light staining	normal	ND	ND	ND	ND	8.0	1.5	20.6
SS071		9/16/2014	3:30 PM	MR	Comm	0.2	none	clear	clear	none	none	normal	algae	ND	ND	ND	8.3	ND	20.3
SS071		9/17/2014	3:00 PM	MR	Comm	0.2	none	clear	clear	none	none	normal	algae	ND	ND	ND	8.3	ND	20.4
SS073		9/17/2014	2:20 PM	IC	Comm	nominal flow	none	brown	NA	none	none	none	algae	NA	NA	NA	NA	NA	NA
SS099		7/16/2014	3:30 PM	WCR	Unknown	nominal flow	none	brown	cloudy	none	none	normal	ND	ND	ND	ND	8.9	ND	21.3
SS099		7/17/2014	10:10 AM	WCR	Unknown	nominal flow	none	brown	cloudy	none	none	normal	ND	ND	ND	ND	8.9	ND	21.1
SS104		10/7/2014	2:50 PM	PC	Comm	ND	none	NA	NA	NA	none	normal	ND	NA	NA	NA	NA	NA	NA
SS128		9/16/2014	4:00 PM	MR	Comm	0.08	none	clear	clear	none	none	normal	algae	ND	ND	ND	7.9	ND	23
SS135		9/25/2014	8:55 AM	RR	Res/Comm	0.25	none	clear	clear	none	none	normal	frogs	ND	ND	ND	8.6	ND	21.3
SS134		10/9/2014	12:20 PM	ECR	Res/Comm	NA	none	NA	NA	NA	light staining	normal	ND	NA	NA	NA	NA	NA	NA
SS136		9/25/2014	1:55 PM	PC	Comm	ND	none	NA	NA	NA	none	normal	ND	NA	NA	NA	NA	NA	NA
SS143 East		10/7/2014	3:10 PM	RR	Res/Comm	ND	none	NA	NA	none	rust	none	ND	ND	ND	ND	8.3	ND	17.4
SS143 East		10/8/2014	1:45 PM	RR	Res/Comm	ND	none	NA	NA	none	rust	none	ND	ND	ND	ND	8.3	ND	17.3
SS143 West		10/7/2014	3:10 PM	RR	Res/Comm	ND	none	NA	NA	none	rust	none	ND	ND	ND	ND	7.9	ND	21.6
SS143 West		10/8/2014	1:45 PM	RR	Res/Comm	ND	none	NA	NA	none	rust	none	ND	ND	ND	ND	7.93	ND	21.2
SS144		9/16/2014	1:30 PM	VD	Res	ND	none	clear	clear	ever cutting	not see in	normal	ND	ND	ND	ND	7.3	ND	19.7
SS144		9/17/2014	12:20 PM	VD	Res	ND	none	clear	clear	ever cutting	not see in	normal	ND	ND	ND	ND	7.4	ND	19.7
SS147		9/29/2014	1:45 PM	CL	Comm	ND	none	NA	NA	NA	none	lets to rip r	ND	NA	NA	NA	NA	NA	NA
SS150		9/18/2014	9:10 AM	IC	Res	nominal flow	none	clear	clear	none	light staining	normal	algae	ND	ND	ND	7.68	ND	19
SS150		9/18/2014	12:30 PM	IC	Res	nominal flow	none	clear	clear	none	light staining	normal	algae	ND	ND	ND	7.71	ND	20.4
SS151		9/18/2014	9:25 AM	IC	Res	nominal flow	none	clear	clear	none	none	normal	algae	ND	ND	ND	8.24	ND	23.4
SS151		9/18/2014	12:45 PM	IC	Res	nominal flow	none	clear	clear	none	none	normal	algae	ND	ND	ND	8.24	ND	20.6
SS152		9/29/2014	2:35 PM	WCR	Comm	ND	none	NA	NA	NA	none	normal	ND	ND	ND	ND	ND	ND	ND
SS153		9/29/2014	1:25 PM	MR	Comm	ND	none	NA	NA	NA	none	lets under w	algae/fish	NA	NA	NA	NA	NA	NA
SS902		9/18/2014	3:35 PM	ECR	Comm	ND	none	ND	ND	ND	none	none	ND	NA	NA	NA	NA	NA	NA
SS903		9/18/2014	3:25 PM	ECR	Comm	ND	NA	NA	NA	NA	duckbill outfl	none	ND	NA	NA	NA	NA	NA	NA
SS904		9/18/2014	3:20 PM	ECR	Comm	ND	none	NA	NA	NA	light staining	none	algae	NA	NA	NA	NA	NA	NA

SS902		9/18/2014	3:35 PM	ECR	Comm		ND	none	ND	ND	ND	none	none	ND		NA	NA	NA	NA	NA	NA
SS903		9/18/2014	3:25 PM	ECR	Comm		ND	NA	NA	NA	NA	duckbill outfall	none	ND		NA	NA	NA	NA	NA	NA
SS904		9/18/2014	3:20 PM	ECR	Comm		ND	none	NA	NA	NA	light staining	none	algae		NA	NA	NA	NA	NA	NA
SS906		9/29/2014	12:20 PM	MR	Res/Comm		ND	none	NA	NA	NA	light staining	utlets to rip r	ND		NA	NA	NA	NA	NA	NA
SS905		10/7/2014	1:45 PM	ECR	Res		standing water	none	brown	cloudy	sheen	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS905		10/8/2014	1:20 PM	ECR	Res		standing water	none	brown	cloudy	sheen	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS907		9/29/2014	3:10 PM	MR	Comm		ND	none	NA	NA	NA	none	normal	ND		NA	NA	NA	NA	NA	NA
SS908		9/29/2014	3:00 PM	MR	Comm		ND	none	NA	NA	NA	none	normal	ND		NA	NA	NA	NA	NA	NA
SS909		9/18/2014	4:00 PM	KD	Comm		ND	none	NA	NA	NA	light staining	none	ND		NA	NA	NA	NA	NA	NA
SS910		9/25/2014	7:35 AM	MR	Comm		standing water	none	clear	clear	none	none	normal	algae		ND	ND	ND	7.96	ND	23.7
SS910		9/25/2014	3:25 PM	MR	Comm		standing water	none	clear	clear	none	none	normal	algae		ND	ND	ND	7.92	ND	23.9
SS911		8/12/2014	2:00 PM	DC	Comm		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS912		9/18/2014	12:00 PM	DC	Res		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS913		9/18/2014	12:15 PM	DC	Res		ND	none	NA	NA	NA	none	normal	ND		NA	NA	NA	NA	NA	NA
SS914		9/17/2014	4:10 PM	IC	Res/Comm		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS915		9/17/2014	4:10 PM	IC	Res/Comm		ND	none	NA	NA	NA	rust	normal	ND		NA	NA	NA	NA	NA	NA
SS916		9/17/2014	4:10 PM	IC	Res/Comm		nominal flow	none	clear	clear	none	light staining	normal	ND		ND	ND	ND	7.77	ND	21.9
SS916		9/18/2014	10:25 AM	IC	Res/Comm		nominal flow	none	clear	clear	none	light staining	normal	ND		ND	ND	ND	7.94	ND	17.6
SS917		9/17/2014	3:35 PM	IC	Res		ND	none	NA	NA	NA	light staining	normal	ND		ND	ND	ND	ND	ND	ND
SS918		9/29/2014	11:15 AM	CL	Comm		ND	none	NA	NA	NA	light staining	none	ND		NA	NA	NA	NA	NA	NA
SS919		9/18/2014	1:40 PM	WCR	Res/Comm		ND	none	NA	NA	NA	none	normal	ND		NA	NA	NA	NA	NA	NA
SS920		9/16/2014	1:00 PM	VD	Res/Comm		ND	none	NA	NA	NA	none	none	ND		NA	NA	NA	NA	NA	NA
SS923		9/16/2014	12:00 PM	VD	Comm		not known	none	not known	not known	none	not known	none	ND		ND	ND	ND	9.6	ND	19.4
SS923		9/17/2014	11:45 AM	VD	Comm		not known	none	not known	not known	none	not known	none	vegetation		ND	ND	ND	9.6	ND	19.5
SS924		9/16/2014	12:00 PM	VD	Res/Comm		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS925		9/16/2014	10:50 AM	MC	Res		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS926		9/16/2014	10:40 AM	MC	Res		ND	none	NA	NA	NA	light staining	normal	algae		NA	NA	NA	NA	NA	NA
SS927		9/16/2014	10:30 AM	MC	Res		ND	none	NA	NA	NA	light staining	none	fish		NA	NA	NA	NA	NA	NA
SS928		9/16/2014	10:20 AM	MC	Res		ND	none	NA	NA	NA	light staining	none	ND		NA	NA	NA	NA	NA	NA
SS929		9/16/2014	10:10 AM	MC	Res		ND	none	NA	NA	NA	light staining	none	ND		NA	NA	NA	NA	NA	NA
SS930		9/16/2014	10:00 AM	MC	Res		ND	none	NA	NA	NA	light staining	none	ND		NA	NA	NA	NA	NA	NA
SS931		9/16/2014	12:35 PM	VD	Res		ND	none	NA	NA	NA	none	normal	ND		NA	NA	NA	NA	NA	NA
SS933		9/16/2014	9:40 AM	MC	Res		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS940		9/25/2014	9:40 AM	RR	Comm		nominal flow	none	clear	clear	none	none	sampled from N	frog in basin		ND	ND	ND	7.47	ND	21.4
SS940		9/25/2014	12:05 PM	WCR	Comm		nominal flow	none	clear	clear	none	none	sampled from N	frog in basin		ND	ND	ND	7.47	ND	21.6
SS941		8/14/2014	3:30 PM	RR	Comm		ND	none	NA	NA	NA	algae	normal	algae		NA	NA	NA	NA	NA	NA
SS943		8/14/2014	2:40 PM	PC	Comm		ND	none	NA	NA	NA	light staining	normal	ND		NA	NA	NA	NA	NA	NA
SS945		8/14/2014	2:20 PM	PC	Comm		ND	none	NA	NA	NA	light staining	normal	algae		NA	NA	NA	NA	NA	NA
SS955		9/29/2014	3:40 PM	RR	Res		ND	none	NA	NA	NA	lined with r	normal	ND		NA	NA	NA	NA	NA	NA
SS957		7/9/2014	10:55 AM	RR	City Park		ND	none	NA	NA	NA	none	normal	ND		NA	NA	NA	NA	NA	NA
SS958		10/7/2014	2:30 PM	PC	Comm		standing water	none	brown	cloudy	sheen	light staining	normal	ND		ND	ND	ND	8.21	ND	17.8
SS958		10/8/2014	2:00 PM	PC	Comm		standing water	none	brown	cloudy	sheen	light staining	normal	ND		ND	ND	ND	ND	ND	ND
SS969		9/29/2014	3:05 PM	WCR	Comm		ND	none	NA	NA	NA	none	utlets to rip r	ND		NA	NA	NA	NA	NA	NA
SS989		9/17/2014	1:40 PM	MR	Res/Comm		nominal flow	none	clear	clear	none	none	normal	ND		ND	ND	ND	7.46	ND	ND
SS989		9/18/2014	10:00 AM	MR	Res/Comm		nominal flow	none	clear	clear	none	none	normal	ND		ND	ND	ND	7.64	ND	14.9
31214S-005	SS901	7/9/2014	10:20 AM	WCR	Res		ND	none	clear	clear	none	none	normal	bacteria/algae		NA	NA	NA	NA	NA	NA
32203S-035	SS921	7/10/2014	9:50 AM	WCR	Res		ND	none	clear	clear	none	none	normal	bacteria/algae		ND	ND	ND	7.6	ND	24.9
132325S-135	SS922	7/10/2014	9:45 AM	DC	Res		nominal flow	none	clear	clear	none	none	normal	bacteria/algae		ND	ND	ND	7.4	ND	20.7

13232S-135	SS922	7/10/2014	9:45 AM	DC	Res	nominal flow	none	clear	clear	none	none	normal	bacteria/algae	ND	ND	ND	7.4	ND	20.7
13232S-005	SS934	7/10/2014	12:30 PM	DC	Res	ND	none	NA	NA	NA	none	normal	ND	NA	NA	NA	NA	NA	NA
23344S-190	SS935	7/10/2014	10:55 AM	MC	Res	nominal flow	none	clear	clear	none	none	normal	bacteria/algae	ND	ND	ND	7.3	ND	20.1
24353S-005	SS936	7/9/2014	11:40 AM	MC	Res	0.16	none	clear	clear	none	none	normal	bacteria/algae	ND	ND	ND	6.1	ND	20.9
24353S-005	SS936	7/10/2014	9:30 AM	MC	Res	0.16	none	clear	clear	none	none	normal	bacteria/algae	ND	ND	ND	6	ND	20.7
15292S-235	SS940	7/9/2014	2:40 PM	UF	Res	ND	none	NA	NA	NA	none	normal	ND	NA	NA	NA	NA	NA	NA

ND: No Detect

NA: Not Applicable

Watershed Abbreviations:

CH	Cleveland Heights	OA	O Avenue
CL	Cedar Lake	PC	Prairie Creek
DC	Dry Creek	RR	Rockford Road
ECR	East Side Cedar River	TD	Teresa Drive
IC	Indian Creek	UF	Ushers Ferry
KD	Kenwood Ditch	VD	Vinton Ditch
MC	Morgan Creek	VV	Van Vechten
MR	McLoud Run	WCR	West Side Cedar River

Basin ID	Basin Address	Date of Inspection	COMMENTS
<u>101</u>	114 TEAKWOOD LN NE	9/17/2014	Tree Removal is need on the south portion of the basin
<u>102</u>	7814 PIN TRAIL DR NE	9/16/2014	
<u>103</u>	7700 PIN TRAIL DR NE	9/16/2014	Geo Grid needs to be replaced with Rip rap due to water volume.
<u>104</u>	1319 FOX TRAIL DR NE	9/16/2014	
<u>105</u>	7403 CATTAIL CT NE	9/16/2014	Tree removal needed on East end of basin.
<u>106</u>	6915 WALDEN RD NE	9/16/2014	3/8-1/2 sediment filled outlets. Fill and repair sink hole on SW corner.
<u>109</u>	1229 ENGLISH LN NE	4/7/2014	Basin to me maintained by Contractor responsible for sedimentation. Will be complete spring 2015
<u>110</u>	1219 ROLLING CREEK DR NE	4/7/2014	Tile will be cleaned as a part of basin 109 reconstruction by ALM builders.
<u>111</u>	802 WHITE IVY PL NE	9/17/2014	Sediment filled/plugged area inlet
<u>112</u>	1012 WHITE IVY PL NE	9/17/2014	Honeycomb inlet structure is not fastened at all (SAFETY ISSUE)
<u>113</u>	NOELRIDGE PARK	9/17/2014	Erosion is occurring under the walking bridge on the NE corner of the retention basin
<u>114</u>	6409 GIBSON DR NE	9/17/2014	
<u>115</u>	5150 BLAIRS FOREST WAY NE	11/21/2014	Vegetation is over 6ft tall.
<u>120</u>	8025 TURTLE RUN DR NE	9/14/2014 9/14/2014	Sinkhole south of the basin's inlet structure
<u>124</u>	5719 SHILOH LN NE	9/17/2014	Sedimentation has occurred in the basin
<u>125</u>	6324 GIBSON DR NE	9/17/2014	Sedimentation has occurred in the basin
<u>126</u>	5121 WINDY MEADOW CIRCLE NE	9/17/2014	Trees need to be removed from South end of basin.
<u>201</u>	4121 PARADISE CT NW	9/29/2014	Entire basin has 1-2ft of sediment accumulation throughout it
<u>202</u>	718 ROCKVALLEY LN NW	9/25/2014	Floodplain
<u>203</u>	525 LIMEROCK DR NW	9/25/2014	

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<u>204</u>	136 LIMEROCK CT NW	9/25/2014	Install emergency overflow grate on the inlet structure (Safety Issue)
Basin ID	Basin Address	Date of Inspection	COMMENTS
<u>205</u>	5637 1ST AVE NW	4/24/2014	Remove sand deposited within the concrete flumes
<u>206</u>	1310 11TH ST NW	10/2/2014	
<u>207</u>	319 BEZDEK DR NW	11/18/2014	Prairie Restoration - Living Road Trust
<u>208</u>	3572 JOHNSON AVE NW	4/23/2014	Remove sediment from in front of the NW outlet structure, West end of the basin perimeter
<u>209</u>	2918 E AVE NW	4/25/2014	
<u>210</u>	907 MOOSE DR NW	9/29/2014	FLOODPLAIN
<u>211</u>	4201 JUPITER DR NW	9/29/2014	Sediment in front of outlet and Major bank erosion (Floodplain)
<u>212</u>	7915 SANDHURST DR NW	11/18/2014	Basin is still being utilized as a sediment trap
<u>213</u>	614 FIRST AVE WEST	11/18/2014	Remove silt fence along 80th St
<u>214</u>	2808 SUE LN NW	10/13/2014	
<u>215</u>	6708 COUNTRY RIDGE DR NW	10/2/2014	
<u>216</u>	6806 BLUE STONE CT NW	9/25/2014	
<u>218</u>	341 STONEY POINT RD NW	4/24/2014	
<u>219</u>	1403 WOLF DR NW	9/29/2014	
<u>220</u>	1319 WOLF DR NW	9/29/2014	
<u>223</u>	6803 Valley View Ct NW	10/2/2014	Major sink hole South of inlet. Sink hole has been repaired in the past.
<u>301</u>	4004 WINDHAM WOODS CT SE	4/7/2014	
<u>302</u>	3832 OAK RIDGE DR SE	4/7/2014	Remove trees from the rocked spillway
<u>305</u>	55 12TH AVE SE	9/25/2014	
<u>401</u>	4618 PUEBLO ST SW	11/18/2014	The north flared end outlet is full of sediment
<u>402</u>	344 UNDERWOOD AVE SW	4/24/2014	
<u>403</u>	2141 25TH ST SW	10/15/2014	Capacity has been compromised due to sedimentation

Basin ID	Basin Address	Date of Inspection	COMMENTS
<u>404</u>	2612 SUMMERWOOD CT SW	10/15/2014 10/15/2014	Remove sediment from in front of the SW and SE outlet structures
Basin ID	Basin Address	Date of Inspection	COMMENTS
<u>405</u>	3225 27TH ST CT SW	9/25/2014	North outlet structure is buried, SW and NE outlets have sedimentation in front of them
<u>406</u>	70 FLORIDA AVE SW	10/10/2014	
<u>407</u>	402 66TH AVE SW	10/10/2014	Basin erosion issues have been repaired. Minor sedimentation located at N outlet.
<u>408</u>	9203 LAWRENCE DR E SW	10/13/2014	
<u>409</u>	9204 LAWRENCE DR E SW	10/13/2014	
<u>410</u>	2429 1ST ST SW	8/14/2014	
<u>411</u>	1334 EDGEWOOD RD SW	11/17/2014	Channel Reconstruction was performed during the fall of 2010
<u>413</u>	2708 HANDLEY CT SW	8/14/2014	
<u>414</u>	6601 HOOVER TRAIL RD SW	8/14/2014	
<u>415</u>	6426 COLORADO DR SW	11/17/2014	Neighboring Developing Site is causing minor sediment buildup in the basin
<u>416</u>	3620 BANAR DR SW	9/25/2014	
<u>417</u>	3617 BANAR DR SW	9/25/2014	
<u>418</u>	5021 COTTON CT SW	10/16/2014	
<u>419</u>	1523 WHEATLAND CT SW	8/14/2014	
<u>420</u>	2121 ARTHUR COLLINS PKWY	10/13/2014	
<u>421</u>	1300 STONEY POINT RD SW	4/24/2014	
<u>422</u>	1220 AUBURN DR SW	10/15/2014	
<u>423</u>	7530 PRAIRIE HAWK DR SW	10/10/2014	Gas line installed through basin this fall. Basin needs seeded and mulched at this time.
<u>429</u>	3520 QUEEN DR SW	9/25/2014	Channelization, Sedimentation and trash all need to be addressed.
<u>430</u>	3409 ROYAL DR SW	9/25/2014	NW outlet has large sediment deposit in front of it

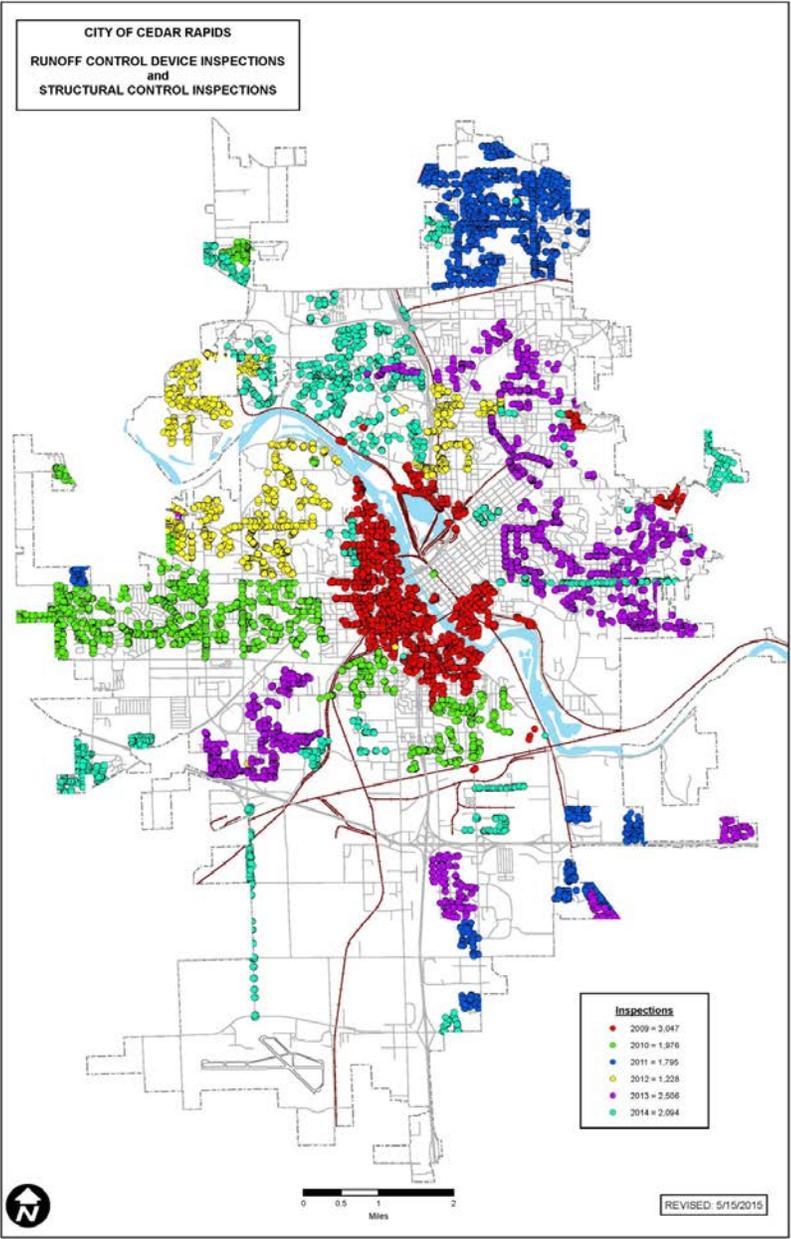
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<u>437</u>	3519 ROYAL DR SW	9/25/2014	NW outlet 3/4 full of sediment
<u>438</u>	9505 18TH ST SW		
<u>439</u>	9505 18TH ST SW		
<u>440</u>	9220 WRIGHT BROTHERS CT SW	10/13/2014	The 2 north outlets are completely full of sediment and debris
<u>441</u>	118 ROCKHURST DR SW	4/24/2014	3/4 Sediment Filled NOT A DETENTION BASIN
Basin ID	Basin Address	Date of Inspection	COMMENTS
<u>445</u>	2905 HILLSBORO CT SW	10/16/2014	Sedimentation has occurred on the north end of the basin

Basin ID	Basin Address	Project Number
5	6429 QUAIL RIDGE DR SW	47-97-050
15	4502 1ST AVE NW	48-97-117
16	4325 12TH AVE SW	
51	5826 CHERRY PARK CT NW	47-06-019
90	1528 BOBCAT DR NW	47-04-043
149	4706 M AVE NW	47-00-032
175	200 CHERRY PARK DR NW	47-06-019
197	121 JACOLYN DR, NW	
245	2975 F AVE NW	48-03-112
259	225 SHELLEY LN NW	48-01-050
292	6300 42ND ST NE	
293	6300 42ND ST NE	48-07-104
343	4210 JOHNSON AVE NW	48-05-080
366	2204 26TH ST NW	48-04-093
376	6455 E AVE NW	48-04-056
377	6455 E AVE NW	48-04-056
378	6455 E AVE NW	48-04-056
478	4220 16TH AVE SW	48-95-085
483	112 JACOLYN DR SW	48-99-019
577	3515 E AVE NW	48-97-128
688	1220 JACOLYN DR SW	48-00-158
765	1510 BURDETTE DR SW	47-97-050
1163	6300 42ND ST NE	48-97-067
1195	4404 MEGAN CT NW	47-99-056
1204	4814 M AVE NW	47-07-024
1236	1014 BLACK GRANITE RD NW	47-10-001
1244		47-05-044
1263	4900 Oak Grove Rd NE	47-10-020
1264	2144 SUGAR CREEK DR NW	47-10-020
6103	2030 Bristol Dr	47-11-012
18134	411 1st Ave SE	47-13-008



DATE: Sampling year 2014

TO: Cedar Rapids Industrial Facilities & Customers – Potentially subject to Section 313 of Title III of SARA (Form R), municipal landfills, hazardous waste treatment facilities, disposal and recovery facilities, and any specific industrial category subject to annual storm water sampling requirements under NPDES General Permit #1 (Industrial Activities).

RE: City of Cedar Rapids Municipal Separate Storm Sewer (MS4) NPDES Permit #57-15-0-05. Requirements for Industrial Facilities subject to Section 313 of Title III of SARA (Form R) **annual storm water sampling and Industrial Facilities Survey requirements.**

The MS4 NPDES permit for Cedar Rapids requires under Part II, section I (Monitoring Industrial & High Risk Run-Off) that **Section 313 Industries, municipal landfills, hazardous waste treatment facilities, disposal and recovery facilities, and any specific industrial category subject to annual storm water sampling requirements under NPDES General Permit #1 (Industrial Activities) shall collect and analyze storm water samples of their industrial storm water effluent once per calendar year.**

The following parameters shall be analyzed, any pollutant limited in an existing NPDES permit for the facility, oil and grease, chemical oxygen demand, pH, biochemical oxygen demand (5 day), total suspended solids, total phosphorus, total kjeldahl nitrogen and nitrate plus nitrite nitrogen.

A minimum of one grab sample shall be taken during the first one hour of discharge of a storm event resulting in 0.10 inches or more of rainfall. The storm event shall have occurred at least 72 hours since the previous storm event.

The City is required to obtain from each industrial facility a certification that by December 31, 2013 the industrial facility complies with applicable storm water management plans and with the facility's storm water permit. Complete the **Section 313 Industrial Facilities Survey, certification statement** (attached with this letter) and **sampling results** for CY 2014 and return to the Cedar Rapids Water Pollution Control Facilities (CRWPCF) no later than **December 31st, 2014**. If you will require more time to complete, please submit a written request to CRWPCF.

Please review the Iowa Department of Natural Resources website to determine if your facility might be able to apply for a "storm water no-exposure certification". The following link will direct you to the IDNR storm water permitting section to help you with your facility's no-exposure determination. <http://www.iowadnr.com/water/stormwater/who.html>

Please take this opportunity to review the NPDES General Permit #1 & #2 requirements. Please develop or update Storm Water Pollution Prevention Plans if you have not already done so.

If you have not sampled the storm water effluent for your facility and do not qualify for a no-exposure certification, a storm water effluent sample for industrial activities at your facility must be collected no later than December 31, 2014. Sampling results must be submitted to CRWPCF no later than February 15, 2014.

If you have any questions or require additional information, please call me at 319-286-5286 ext.4634.

Steve Salyer
Environmental Specialist
s.salyer@cedar-rapids.org

Section 313 Industrial Facilities Survey

CITY OF CEDAR RAPIDS MS4 Storm Water Permit

IDNR NPDES Permit No. 57-15-0-05

**Part II. Storm Water Pollution Prevention & Management Program
Section J. Monitoring Industrial and High Risk Run-Off**

General Facility Information

Business Name: _____

Business Address: _____

Mailing Address: _____

City & Zip: _____

Phone: _____

Contact Name, Phone & Fax #, e-mail (if available): _____

Date Completed: _____

SIC code: _____

Survey Questions

A. Facility Section 313 Applicability:

Does Facility utilize the Cedar Rapids separate storm sewer system? Yes / No (circle one)

Is Facility subject to SARA Section 313? Yes / No (circle one)

If yes, list most recent year Section 313 (Form R) report was submitted: _____

List on-site chemicals subject to section 313:

Chemical Name	Last Reported Annual Usage (in pounds)	Chemical exposed to storm-water? (yes/no)

Survey (Continued)

Facility IDNR NPDES Information:

Note: Facility Permit Type, Permit Discharge Authorization Number, and Expiration Date of any applicable IDNR NPDES Permit

General Permit No.1 (Industrial Activity):

General Permit No.2 (Construction Activity):

Direct Discharge:

C. Storm-water management plan on-site? (Yes / No)
Date of most recent storm water management plan update.

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D. Storm-water analysis results available? (Yes / No)
List the date and all parameters that were analyzed during the rain event, and if available, attach results of most recent storm water run-off sample.

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Certification:

"I certify that based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete."

_____ Date: _____
Signature & Title