



City of Norman

Phase II MS4 Annual Report

Reporting Period 7/1/2018 to 6/30/2019



**Phase II Small Municipal Separate Storm Sewer
System (MS4) General Permit (OKR04)
Authorization No. OKR040015
September 1st, 2019**



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Section 1. Compliance Status

1.1 Executive Summary

The FYE 2019 Phase II MS4 Annual Report for the City of Norman (City) is submitted as required by Part V.C.1 of the Oklahoma Department of Environmental Quality Phase II Municipal Separate Storm Sewer System (MS4) General Permit, OKR04, Authorization No. OKR040015, and covers the reporting period of July 1, 2018, through June 30, 2019. As part of these requirements, the City conducted an assessment of permit compliance, including an assessment of the appropriateness of Best Management Practices (BMPs), progress toward the goal of reducing the discharge of pollutants, and achieving measurable goals for each Minimum Control Measure (MCM). The City's assessment indicates that it is in compliance with permit requirements.

On November 29, 2005, the City received Authorization No. OKR040015. General Permit OKR04 expired on February 9, 2010, but was administratively continued until its reauthorization, which became effective on November 1, 2015. A Notice of Intent (NOI) and other permit application material were submitted as part of the OKR04 application on January 29, 2016. On March 17, 2017, the City received Authorization No. OKR040015.

Some of the major accomplishments during the FYE 2019 reporting period include removing pollutants from the MS4 through street sweeping, spill response, dry weather field screening, and infrastructure maintenance; educating the public on the importance of stormwater pollution prevention through public clean-up events, meetings, discussions, and the Artful Inlets program; and enhanced inspections of construction sites. The City's two stormwater inspectors conducted 1,564 inspections of 115 sites during the reporting period. During the City's annual Household Hazardous Waste Collection event, held on October 20, 2018, over 90,000 pounds of materials were collected and properly disposed.

A continuing requirement for this reporting period involves implementation of the Lake Thunderbird Watershed Total Maximum Daily Load (TMDL) Compliance and Monitoring Plans. On November 10, 2013, ODEQ issued a TMDL for the Lake Thunderbird watershed, which established a waste load allocation for the Cities of Norman, Oklahoma City, and Moore, and required that each city submit Compliance and Monitoring Plans. The City's Compliance and Monitoring Plans were approved by ODEQ on September 21, 2016, and subsequently adopted by the City Council on October 25, 2016. Monitoring began in March 2016, and implementation of non-structural BMPs outlined in the Compliance Plan is currently underway.

As an example of non-structural BMP implementation, throughout the month of October 2018, the Stormwater Division hosted the Lake Thunderbird Watershed Clean-up Blitz, which culminated in the Third Annual Lake Thunderbird Watershed Workshop and Clean-up Event at Lake Thunderbird State Park. The goal of the blitz was to educate Norman citizens on the impact stormwater has on Lake Thunderbird's water quality and to engage the public to participate in the protection of



the watershed. In addition, everyone who came took an active role in removing pollution, in the form of trash, from the watershed. Approximately 70 people attended at least one event, and several attended more than one. Trash was collected from various parks located within the watershed. At every event, awards were given for the largest amount of recyclables removed and for the most unusual item found. Overall, the volunteers collected almost 200 pounds of trash and recyclables that may otherwise have ended up in Lake Thunderbird.

An additional non-structural BMP that continued during the reporting period was the City's participation in the Lake Thunderbird Watershed TMDL Technical Working Group, now known as the Lake Thunderbird Watershed Partnership. The Cities of Norman, Moore, and Oklahoma City established the Lake Thunderbird Watershed Partnership to coordinate activities related to the Lake Thunderbird watershed. The group currently meets on a quarterly basis and is working together to implement the Blitz throughout all three cities within the Lake Thunderbird Watershed.

The Stormwater Division implemented another phenomenal non-structural BMP during this reporting period. As a part of our stormwater pollution prevention educational campaign, we partnered with the Norman Arts Council and Public Arts Board to host the 2019 Artful Inlets program on April 11 and 12, 2019. During the City's April Second Friday Art Walk (a monthly event to promote local arts), five local artists transformed five storm drain inlets into artwork as part of the inaugural event. Local artists Rachel Stout, Laura Nelsen, Derrick Adams, Jazmin Crawford and Ginna Dowling were selected to paint five inlets along Main Street, and Art Walk patrons were able to watch the artists in action as they created works of art that also educate the public about the harmful effects that pollutants in stormwater runoff can have on our local waterways. On April 17, 2019, then Mayor-elect Breea Clark and City Councilmember Kate Bierman led a tour of the artwork that ended with a celebration of the effort sponsored by Benvenuti's, a restaurant in front of which one of the art pieces was located.



"Cumulonimbliss" by Rachel Stout



"Choose Wisely" by Laura Nelsen



"Every Drop Counts" by Derrick Adams



"Do Something" by Jazmin Crawford



"Runoff Pollutes" by Ginna Dowling

As with all things, challenges and successes go hand-in-hand. The major challenge encountered by the City of Norman during the FYE 2019 reporting period was the failure to approve a Stormwater Utility Fee (SWU) to provide a dedicated funding source for the Stormwater Division. Beginning in May 2017 and continuing through January 2018, a Stormwater Citizen Committee met biweekly to develop a new, citizen-led stormwater funding strategy. They recommended a fee structure and two alternative options plus a general obligation bond package to fund major stormwater infrastructure repair to Council on April 10, 2018. Council unanimously voted to send a tiered-rate utility and bond package to voters on January 22, 2019. These two items were bundled with a transportation bond package as Vision for Norman. After numerous open houses and civic club and association educational meetings, the two stormwater initiatives in Vision for Norman failed.

1.2 BMP Implementation and Evaluation

The City considers the BMPs as submitted to ODEQ on January 29, 2016, as part of the permitting process to be appropriate and effective during this reporting period. Evaluation of the BMPs will be on going, and if any are found to be no longer effective or appropriate, the BMP will be amended, deleted and/or replaced.

An assessment of the BMPs currently being implemented by the City is presented in the tables in Section 1.3.

1.3 MCM Measurable Goals

Progress in achieving the measurable goals for each BMP of the six MCMs is presented in the following tables. Supporting documentation for each MCM is attached in Appendix A.

Public Education and Outreach MCM

BMP	Goal	Frequency/ Implemented	Comments
Distribute informational brochure with utility bills	One brochure to 75% of all utility accounts	Annually	Distributed six utility bill inserts: 1. Stormwater Citizen Committee Open Houses July 2018 2. Yard Waste Tips August 2018 3. Fertilizer Use Tips November 2018 4. Rain Barrel Promotion February 2019 5. Vision for Norman February/March 2019 6. Know Your Flood Risk April 2019

BMP	Goal	Frequency/ Implemented	Comments
Add stormwater pollution prevention information to city web site	Information posted	Annual review/update	Major revisions to the City's website including the addition of information on all aspects of the Stormwater Division's responsibilities were made in June 2018. Information on Stormwater Citizen Committee Open Houses, rain barrels, and public events were posted on the City's main page throughout FYE 2019.
Operate Action Center Hotline	Receive and respond to 90% of verified complaints	Annually	Action Center complaints are received and responded to throughout the year. In FYE 2019, the Stormwater Division responded to 450 citizen calls. Response rate was 100%.
Public stormwater education event	Coordinate with Environmental Services for Earth Day event	Annually	The Stormwater Division participated in the annual Earth Day event on April 28, 2019.
Educational event & materials for schools	Supply material to 2 elementary schools annually and participate in Public Works Week event at local school	Annually	Public Works Week activities were cancelled due to inclement weather. Demonstrated the EnviroScape watershed model to the following classes: <ol style="list-style-type: none"> 1. Terra Verde 5th Grade October 3, 2018 2. Terra Verde 7th Grade April 19, 2019 Distributed stormwater educational materials to local elementary schools through the City's Environmental Control Advisory Board's (ECAB) "Water's Worth It" annual poster contest in 2019. Poster contest packets are distributed to teachers at approximately 22 public and private elementary schools within Norman city limits. Posters are displayed during April's Second Friday Art Walk. During the reporting period, these events occurred on April 12, 2019.

BMP	Goal	Frequency/ Implemented	Comments
Newspaper ads	Quarterly ads in local paper with water quality, pollution prevention or watershed protection information	Annually	<p>Six stormwater topics were placed as ads in the Norman Transcript in FYE 2019:</p> <ol style="list-style-type: none"> 1. Stormwater Committee Open Houses July and August 2018 2. Scoop the Poop-Pet Waste July and August 2018 3. Don't Blow It-Yard Waste December 2018 4. Rain Barrel Promotion January, February, and March 2019 5. Vision for Norman Open Houses March 2019 6. We Drink Our Stormwater May 2019 <p>Additionally, four stormwater topics were placed as ads in special magazine editions of the Transcript:</p> <ol style="list-style-type: none"> 1. The Stormwater Division is Here for You-Norman Magazine July/August 2018 2. Recycle the Rain-Norman Magazine November/December 2018 3. Vision for Norman Open Houses-Norman Magazine March/April 2019 4. You Can Be the Difference in Our Water Quality-Norman Magazine May/June 2019
Develop stormwater pollution prevention brochure for fertilizer use	Distribute to 75% of all utility accounts	Once	Completed in 2016. Brochure sent to landscape professionals in April 2019.
Develop Spanish language SWPP brochure	Develop Spanish language stormwater pollution prevention informational materials	Once	<p>Completed in 2016. Brochure sent to landscape professionals on April 19, 2019.</p> <p>Additional Spanish language informational materials have been created for the Yard</p>

BMP	Goal	Frequency/ Implemented	Comments
			Waste program and the Construction Stormwater program related to proper disposal of leaves and grass clippings and proper maintenance of BMPs, respectively.

Public Participation and Involvement MCM

BMP	Goal	Frequency/ Implemented	Comments
Establish web site link for receipt of email regarding stormwater issues	Respond to 90% of all emails received	Annually	pwstormwater@normanok.gov has been established for receipt of email regarding stormwater issues. Response rate was 100%.
Environmental Control Advisory Board (ECAB)	A stormwater quality representative will meet with ECAB quarterly to provide information on stormwater pollution issues.	Annually	Stormwater Division representatives have attended ECAB meetings on a monthly basis and have worked with the group on several stormwater issues and events.
Operate Action Center Hotline	Receive and respond to 90% of verified complaints	Annually	Action Center complaints are received and responded to throughout the year. In FYE 2019, Stormwater Division responded to 450 citizen calls. Response rate is 100%.
Public meeting for stormwater issues	Hold one public meeting annually	Annually	Six Stormwater Citizen Committee Open Houses and eight Ward meetings were held between June and December 2018 to provide information on the Committee's recommendations for stormwater funding to Council and to gather community feedback on the preferred rate structure. The Stormwater Citizen Committee reconvened for a final meeting on November 13, 2018 to discuss the input received and discuss next steps. This meeting was open to the public. The Norman City Council held a discussion and voted on the

BMP	Goal	Frequency/ Implemented	Comments
			<p>Vision for Norman package on January 22, 2019. They voted unanimously to send the package to voters.</p> <p>Ten Open Houses, 5 Ward meetings, and 19 civic group presentations were held in March 2019 to provide information on the funding package and answer any questions.</p>
Public Stormwater Education Event	Coordinate with Environmental Services for one event annually	Annually	<p>Participated in annual Earth Day event on April 28, 2019 with Environmental Services.</p> <p>Environmental Services Coordinator discussed the Household Hazardous Waste Collection Events with volunteers at the Third Annual Lake Thunderbird Workshop and Clean-up Event on November 3, 2018.</p>
Blue Thumb/Oklahoma Conservation Commission Partnership	Maintain working relationship with Blue Thumb and coordinate for one stormwater public education event annually	Annually	<p>Blue Thumb volunteer, Karen Chapman, hosted a booth at the event and discussed her monitoring experience with Bishop Creek at the Lake Thunderbird Workshop and Clean-up Event on November 3, 2018.</p> <p>The Stormwater Division also coordinated a creek clean-up with Blue Thumb volunteers on May 6, 2019. Hitachi employees attended as well.</p>
Lake Thunderbird TMDL public meeting	Hold one public meeting annually for education and discussion of the Lake Thunderbird TMDL	Annually	Third Annual Lake Thunderbird Workshop and Clean-up Event held on November 3, 2018.

Illicit Discharge Detection and Elimination MCM

BMP	Goal	Frequency/ Implemented	Comments
Operate Action Center Hotline	Receive and respond to 90% of complaints received	Annually	Action Center complaints are received and responded to throughout the year. In FYE 2019, Stormwater Division responded to 450 citizen calls.

BMP	Goal	Frequency/ Implemented	Comments
			Response rate was 100%
Household Hazardous Waste Collection Day	Provide annual event for the public to drop off unwanted household waste and report amount of waste collected	Annually	Conducted on October 20, 2018.
Dry Weather Field Screening	90% of visual screening points inspected each year	Annually	63 outfalls were inspected in FYE 2019.
Illicit Discharge Investigations	Perform source investigation on all identified illicit discharges and connections	Annually	Conducted throughout the year as identified. Ten illicit discharges were found and eliminated in FYE 2019. Additionally, 115 grass clipping door hangers and warning letters were issued in FYE 2019.
Enforcement Actions	Take enforcement actions as allowed by City regulations where responsible parties for illicit discharges are identified	Annually	Enforcement actions are taken as necessary to eliminate illicit discharges. None were required in FYE 2019.
Inspect MS4 System	Visually inspect open channels and camera enclosed conduits. Inspect 10% of system each year	Annually	During the reporting period, 21,437 inlets were inspected and 7,355 were cleaned, resulting in the removal of over 200 tons of debris and material. Additional channels and pipes are inspected and maintained as time and resources allow.

Construction Site Runoff Control MCM

BMP	Goal	Frequency/ Implemented	Comments
Earth Change Permit	Permit 90% of all earth disturbing operations over 1 acre in size	Annually	19 Earth Change Permits were issued in FYE 2019.
Construction site inspection	Inspect 90% of sites within 30 days of permit issuance and at least monthly. Perform enforcement actions as needed	Annually	95% of sites were inspected within 15 days. 1,564 inspections were conducted at 115 sites in FYE 2019.
Education event for construction/development	Hold two events for developers, construction crews, utility contractors and engineering companies	Annually	Builders Workshops were held on December 11, 2018 and June 19, 2019. Additionally, a Brown Bag meeting with builders and

BMP	Goal	Frequency/ Implemented	Comments
			developers was held on July 12, 2018.
Water Quality Protection Zone Ordinance (WQPZ)	Implement requirements of the Water Quality Protection Zone Ordinance including establishment and maintenance of streamside buffers	Annually	WQPZ ordinance has been established, and zones are identified as property is platted on an ongoing basis.
Lake Thunderbird TMDL building/development workshop	Hold annual workshop for the building and development community on the Lake Thunderbird TMDL compliance requirements and Lake Thunderbird watershed protection	Annually	Discussion of the Lake Thunderbird TMDL compliance requirements and Lake Thunderbird watershed protection was held at the Builders Workshops on December 11, 2018 and June 19, 2019.

Post-Construction Site Runoff from New/Redevelopment MCM

BMP	Goal	Frequency/ Implemented	Comments
Review/amend City engineering and development regulations	Remove any barriers to Low Impact Development (LID)	Review every 5 years	Review of engineering and development criteria and city ordinances is ongoing.
Implement WQPZ ordinance	Establish water quality protection zones in riparian areas	Annually	WQPZ ordinance has been established, and zones are identified as property is platted.
Fertilizer Ordinance	Implement the Manufactured Fertilizer Ordinance to educate the public and commercial fertilizer applicators on proper fertilizer use	Annually	Letters regarding the Manufactured Fertilizer Ordinance were sent to public and commercial applicators on April 19, 2019.
Stormwater impoundment inspection	Inspect 50% of stormwater impoundments	Annually	Three stormwater impoundments were inspected in FYE 2019.
Post-Construction Events	Include information on post-construction BMPs in construction/development events listed for MCM 4	Annually	This is ongoing.

Municipal Good Housekeeping MCM

BMP	Goal	Frequency/ Implemented	Comments
Develop employee training program	Provide one training session for 75% of targeted employees	Annually	<p>This BMP is under development. Due to limited resources, current staff have been unable to fully implement this task. Management team employees at municipal facilities deemed to have the potential to pollute stormwater runoff were educated about effects of polluted stormwater runoff and how to mitigate it during April and May 2019.</p> <p>Staff Open House events were held during the Vision for Norman educational campaign. During these events, staff were educated about the MS4 components, the effects of stormwater runoff pollution, various BMPs to mitigate any damage, and the Vision for Norman solution package. Those staff-centric events were held on January 31, February 1, 4, 6, 7, 22, 25, and 26, 2019. Attendees included Council, management, and staff.</p> <p>Finally, pertinent employees were encouraged to attend the Builders Workshops held on December 11, 2018 and June 19, 2019 where they learned about BMPs for erosion and sediment control and for Low Impact Development (LID), as well as basic water quality protection. Staff from Engineering, Line Maintenance, and Streets attended these events.</p>

BMP	Goal	Frequency/ Implemented	Comments
Street Sweeping	Sweep at least 2,500 curb miles annually to prevent sediment, debris and pollutants from entering the MS4	Annually	4,559 lane miles were swept in FYE 2019.
City facility stormwater inspections	Inspect half of all facilities identified as potential sources of stormwater pollution	Annually	In preparation for our Screening Evaluation, 100% of all municipal facilities identified as potential sources of stormwater pollution were inspected in April and May 2019.
Map City facility storm sewer (SS) systems	Locate all SS inlets and outfalls at two City facilities every year	2 facilities annually until complete	SS inlets and outfalls were identified at the North Base facility, the Westwood Golf Course, and Parks Maintenance in May 2019.
Spill Kits	Provide spill containment kits to 25% of City vehicles	Annually	Spill kits were purchased and made available to Fleet, Line Maintenance, Parks, and Sanitation vehicles and facilities during the reporting period.
Employee Newsletter	Distribute stormwater pollution prevention information to City Employees through the newsletter once each quarter	Annually	Stormwater pollution prevention information was placed in the following editions of the employee newsletter: July 2018, August 2018, October 2018, December 2018, February 2019, March 2019, and June 2019.
Employee education on Lake Thunderbird TMDL	Incorporate Lake Thunderbird TMDL requirements into City employee training events.	Annually	Lake Thunderbird TMDL requirements were incorporated into the hands-on Builders Workshop on June 19, 2019. Additionally, Lake Thunderbird and its impairments were discussed at the Vision for Norman staff-centered Open House events held in January and February 2019.

1.4 Pollutant Reduction

The City of Norman believes that BMPs currently implemented have resulted in a reduction in the discharge of pollutants to the storm sewer system. The effectiveness and efficiency of all current BMPs will be reviewed annually and used in the development of the Minimum Control Measure BMPs for the next five-year permit term. Pollutant recovery/reduction activities are shown below.

Street Sweeping:

3,376 tons of material were removed from the MS4 during FYE 2019.

Storm Drain Inlet Cleaning:

7,335 inlet cleanings were done during FYE 2019.

218 tons of debris were removed from the MS4 during the reporting period.

Litter Removal:

44.6 tons of trash were removed from the MS4 during FYE 2019 through the City's litter control program.

1,900 pounds of trash were removed from the MS4 during FYE 2019 through clean-up events throughout the City.

Hazardous Waste Collection Event:

31,000 pounds of chemicals collected

8,000 pounds of used oil and antifreeze collected

23,000 pounds of paint collected

25,000 pounds of e-waste collected

150 tires collected

100 automotive batteries collected

Spills:

Approximately 50 gallons of oil, fuel, and antifreeze were recovered during spill response operations associated with 5 spills that occurred during the reporting period.

Section 2. Information/Activities

2.1 FYE 2019 Reporting Cycle

MCM #1: PUBLIC EDUCATION AND OUTREACH AND **MCM #2: PUBLIC PARTICIPATION AND INVOLVEMENT**

The City hosts and attends several public education and outreach events throughout the year. Some of the ways stormwater messages are provided to Norman residents include utility bill inserts, newspaper ads, public meetings, Council meetings, social media, and public events like ScienceFest, Home and Garden Show, Earth Day and the Household Hazardous Waste Event.



The *Runoff Roundup*, a quarterly email newsletter, is sent to a self-selected list of stormwater stakeholders. Beginning in June 2018 and continuing through August 2018, Stormwater Citizen Committee Open Houses were held at various locations throughout the City in an effort to educate Norman residents about the Committee's recommendations to Council regarding stormwater funding and to gather community feedback on the preferred rate structure. After Council unanimously voted to send the Vision for Norman package to voters on January 22, 2019, Vision for Norman Open Houses were held in March 2019, and presentations were given to various stakeholder groups including events geared specifically toward City of Norman staff in February and March.

In 2016, ODEQ approved the Lake Thunderbird Watershed TMDL Compliance and Monitoring Plans. In order to satisfy certain requirements of the Compliance Plan, the City must educate the public on the requirements of the Lake Thunderbird TMDL. Throughout the month of October 2018, the City of Norman Stormwater Division hosted the Lake Thunderbird Watershed Clean-up Blitz, which culminated in a workshop and clean-up event at the lake itself. The event satisfies public education requirements in the City's Stormwater Management Program and Lake Thunderbird TMDL Compliance Plan. The goal of these events was to educate Norman citizens on Lake Thunderbird water quality and the role stormwater plays and to have them play an active role in removing pollution, in the form of trash, from the watershed. The parks chosen for this series of events were as follows: Griffin Community Park (September 30), Crestland Park (October 14—cancelled due to inclement weather), Little Axe Community Center Disc Golf and Park (October 28), and Lake Thunderbird State Park (November 3). Approximately 60 people participated in these events, and several attended more than one event. A total of one hundred ninety-three (193) pounds of trash and recyclables were removed from the watershed.

At the workshop, awards were given for most material collected, most unusual item found, and for two special Blitz All-stars. Cub Scout Pack 233 collected the most trash (38 pounds) by one team. The most unusual item found was a jewelry box filled with earrings, pins and perfume, and it was discovered by the Eco Warriors. Our two Blitz All-Stars were Mary Hogan and Karen Chapman who attended every Blitz event for two straight years.



From left to right, Participants learning about erosion, OWS' Jeri Fleming discussing programs and opportunities & Pack 233 with their trash and award.

In addition to receiving information on the connection between stormwater runoff and Lake Thunderbird's water quality, participants received valuable information on other water quality-related activities and volunteer opportunities with the Oklahoma Water Survey, Oklahoma Conservation Commission's Blue Thumb Program, Keep Oklahoma Beautiful, and the City of Norman's Environmental Services Program.

During this reporting period, the City implemented an exciting new BMP: Artful Inlets. Developed in partnership with the Norman Arts Council and Public Arts Board, and by customizing methods created across the country, the Stormwater Division and its partners

commissioned five pieces of educational art to be installed on five storm drains along the Main Street thoroughfare by five local artists. The selected artists were chosen by a competitive process from twelve submissions.



From left to right, maintenance staff Braden Begolka and Adam Sheets prepping a canvas, map of Artful Inlet locations & Artist Jazmin Crawford interacting with patrons.

Stormwater Division Maintenance staff prepared the canvases by washing and priming them. The art was then installed during the 2nd Friday Art Walk on April 12, 2019. Attendees were able to interact with the artists and their Stormwater Division staff assistants. These pieces not only beautify public infrastructure, they also raise awareness of stormwater pollution in the minds of residents and visitors alike.

MCM #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

The City's Illicit Discharge Detection and Elimination Program primarily consists of dry weather field screening, responding to citizen complaints, and addressing spills or leaks that have the potential to enter the storm sewer system.

The City has identified sixty-three (63) outfalls for dry weather field screening (see map below for locations). All outfalls were inspected during the reporting period. Outfall inspection forms were completed and photos taken at each outfall. No illicit discharges were identified during FYE 2019 as a result of these activities.

During FYE 2019, the City received four hundred fifty (450) citizen inquiries, either directly from the citizen, through the City Action Center, or by referral from other City staff and Council members. All complaints receive an initial investigation to verify the report and determine if the Stormwater Division had jurisdiction over the issue. Those not regulated by the Stormwater Division are referred to the appropriate department and/or State agency. A summary of all complaints received in FYE 2019 is presented in Appendix B.

Received	Response	Resolved
450	450	450

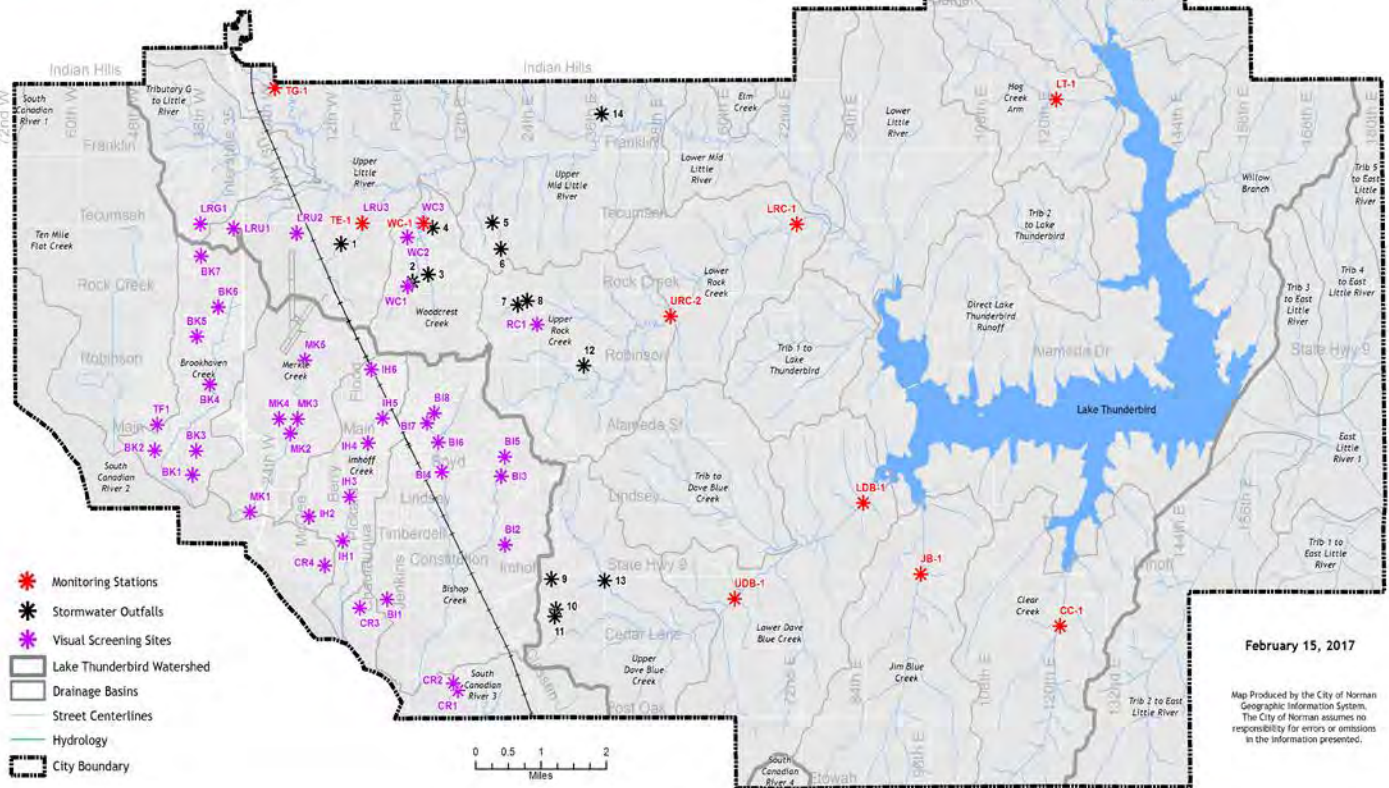
The City responded to 5 spills during the reporting period.

Date	Location/Event
2/14/19	Fuel spill at 1502 Melrose Dr.
3/18/19	Oil spill at 1436 Eisenhower Rd.
4/3/19	Antifreeze spill at Residence Inn
4/26/19	Oil spill after wreck
5/15/19	Oil spill at University and Main St.

City of Norman MS4 Sampling and Visual Screening Points



City of Norman Lake Thunderbird TMDL Monitoring Stations, Stormwater Outfalls, & Visual Screening Sites



MCM #4: CONSTRUCTION SITE RUNOFF CONTROL

The City's Construction Site Runoff Control Program primarily consists of issuing Earth Change Permits to sites within city limits that disturb an acre or greater, inspecting these sites to ensure that they are in compliance with the construction stormwater requirements set out in Section 5000 of the City's Engineering Design Criteria Manual, and issuing enforcement actions for any non-compliant sites. Additionally, in conjunction with MCMs 1 and 6, outreach is also a large part of the City's program. Below is a summary of the activities conducted in FYE 2019:

Earth Change Permits:

During the reporting period, 19 new sites were permitted.

Construction Site Inspections:

New sites started during reporting period:	13
Continuing sites during reporting period:	125
Closed sites during reporting period:	4
Total number of open sites during reporting period:	88
Total number of sites inspected during reporting period:	115
Total number of inspections performed:	1,564

Construction Site Enforcement:

The City issued 0 Notices of Violation, 0 Stop Work Orders and 0 Citations for non-compliance in FYE 2019.

Outreach Efforts:

Brown Bag Meetings:	1
Builders Workshops:	2

In the next reporting cycle, the City hopes to have updated the Engineering Design Criteria Manual in order to improve stormwater pollution prevention and compliance and to ensure that city regulations match state requirements.

MCM #5: POST-CONSTRUCTION STORMWATER MANAGEMENT

The City encourages the use of green infrastructure and low impact development (LID) practices as part of the development process and has adopted the City of Wichita/Sedgwick County LID Manual. The City has also passed a WQPZ ordinance and a Manufactured Fertilizer ordinance. Inspections of a certain number of stormwater detention ponds are also conducted annually in an attempt to address pollution in post-construction stormwater runoff. Additionally, each year the City partners with the Central Oklahoma Stormwater Alliance (COSWA) to offer discounted rain barrels to the public. For FYE 2019, 139 rain barrels were distributed during the City's distribution event.

The WQPZ ordinance was established to protect riparian buffer areas in the Lake Thunderbird watershed, and zones are identified as property is platted. The Manufactured Fertilizer

Ordinance was established to regulate the application of manufactured fertilizers in Norman, require a soil test before phosphorus-containing fertilizers can be applied, restrict fertilizer from being applied to impervious areas, and require commercial fertilizer applicators to register with the City. Each year, a letter is sent to commercial applicators to remind them of this requirement. In FYE 2019, the letter was sent to public and commercial applicators on April 19, 2019. Due to staff turnover and resource shortages, only three (3) stormwater detention ponds were inspected in FYE 2019. Additional efforts are planned for the next reporting period.

MCM #6: MUNICIPAL GOOD HOUSEKEEPING

As part of the Municipal Good Housekeeping Program, the City's goal is to address potential pollution sources at municipal maintenance facilities. This includes training municipal employees on topics such as spill prevention and response and general good housekeeping measures. One major activity that occurs as part of the Municipal Good Housekeeping Program is street sweeping. The City currently operates four (4) vacuum sweepers on a routine basis. During the reporting period, 3,376 tons of material were removed from the MS4, and 4,559 lane miles were swept. Street sweepers also respond to non-hazardous material spills and clean inlets as necessary.

One goal for FYE 2019 was to inspect municipal facilities. During the FYE 2019 reporting period, the Department of Environmental Quality evaluated the City's MS4 program. In preparation for the municipal facility inspections, staff inspected all facilities with the potential to pollute stormwater runoff. The Stormwater Division also provided spill kits for facilities and vehicles associated with those facilities and advised facility personnel on how to better manage each facility's pollutants and runoff. For example, at the North Base complex which houses the Line Maintenance, Fleet, Traffic, and Sanitation Divisions, quotes were obtained for inlet inserts to help keep pollutants from entering the stormwater system. They will be installed in FYE 2020. Additionally, operational changes for washing equipment and vehicles were suggested at all municipal facilities, and plans are underway for the installation of wash bays at several sites.

During FYE 2019, members of the Line Maintenance, Engineering, Street and Stormwater Divisions attended the Builders Workshops and learned about water quality protection, the Lake Thunderbird TMDL requirements, and installation and maintenance of erosion and sediment control BMPs on December 11, 2018 and June 19, 2019. Management team employees at municipal facilities deemed to have the potential to pollute stormwater runoff were educated about effects of polluted stormwater runoff and how to mitigate it during preparation for the ODEQ Screening Evaluation. The Employee Newsletter was also used to educate personnel on stormwater issues. Advertisements for the rain barrel promotions and clean-up events, as well as general information about stormwater quality, household hazardous waste disposal options, and reporting illicit discharges were placed in the newsletter throughout the reporting period. Finally, at the Public Works Leadership Retreat on February 8, 2019, Blane Stacy, Oklahoma Conservation Commission, educated the Public Works Leadership Team for about water quality, erosion and sediment control, and stabilization. Additional facility inspections and employee training are planned for FYE 2020.



2.2 Next Reporting Cycle

The next reporting period will include data from July 1, 2019, through June 30, 2020. The Annual Report covering that period will be submitted by September 1, 2020. Recurring BMPs will be continued, and enhancements will be investigated.

2.3 Proposed Changes

There are no changes proposed to the Stormwater Management Program at this time.

Section 3. TMDLs

3.1 TMDL Compliance

ODEQ issued a TMDL for the Lake Thunderbird watershed in November 2013. The TMDL required the Cities of Norman, Moore, and Oklahoma City to develop Compliance and Monitoring Plans to limit the amount of nitrogen, phosphorus, and sediment entering Lake Thunderbird from stormwater runoff. The City submitted the Compliance and Monitoring Plans (Plans) to ODEQ in November 2015. After much review and discussion, ODEQ approved the City's Plans on September 23, 2016. On October 25, 2016, City Council approved Council Resolution R-1617-41, which adopted the Plans.

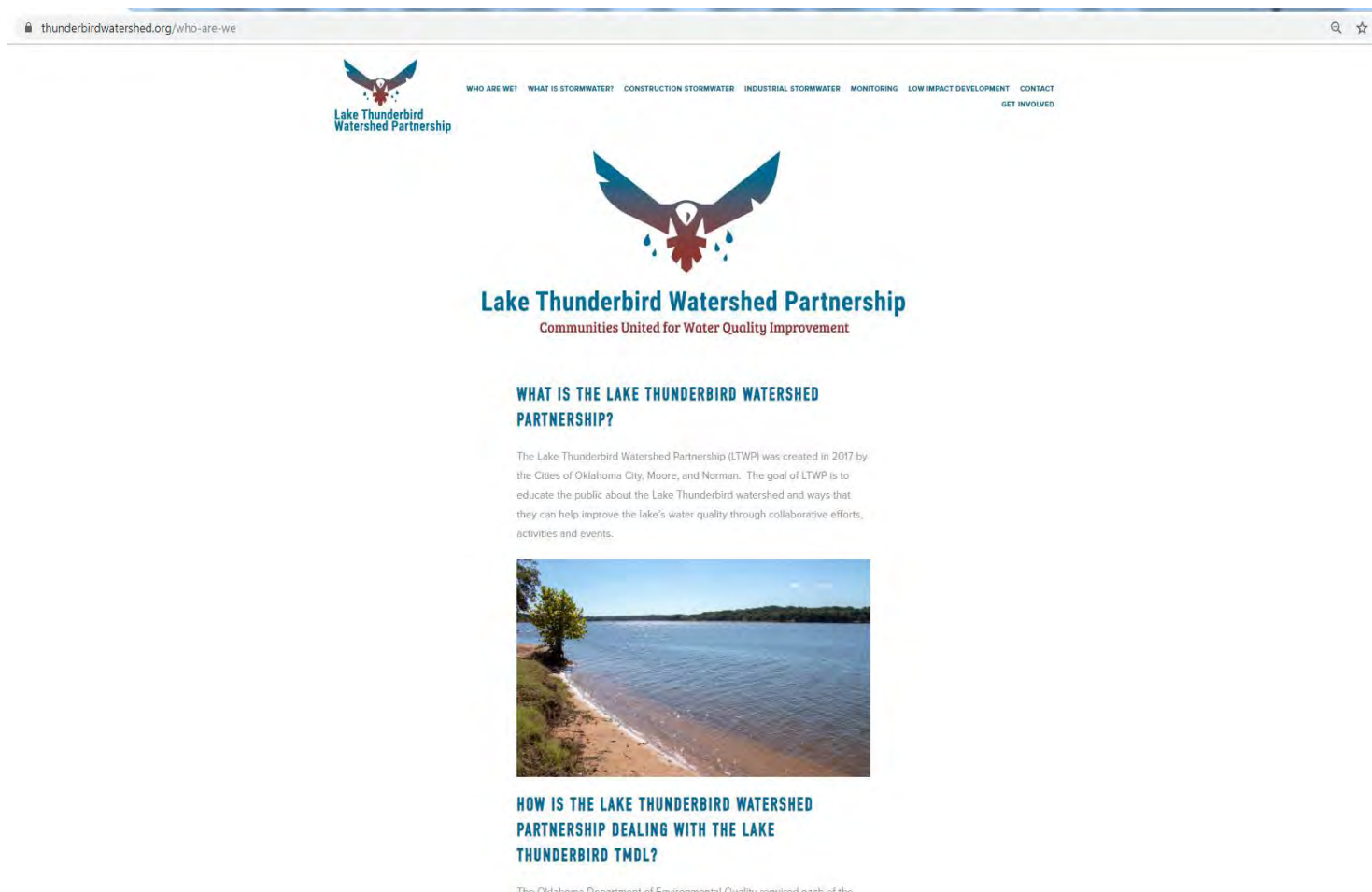
The City has been proactive in measures to reduce the contaminant load to Lake Thunderbird. In November 2009, the Norman City Council accepted the Storm Water Master Plan which recommended the establishment of Stream Planning Corridors in the Lake Thunderbird watershed to protect the creeks and streams and thereby protect lake water quality. The WQPZ was established by City ordinance in June 2011 and provided stream buffers for new development in the Lake Thunderbird watershed as recommended by the Storm Water Master Plan. A Manufactured Fertilizer Ordinance was adopted by the Norman City Council in 2013 which required that certain criteria be met in order to use fertilizer containing phosphorus in the Lake Thunderbird watershed. The Manufactured Fertilizer Ordinance also prohibits blowing, dumping, or otherwise causing grass clippings to be placed into the gutters and storms drains. All of these steps have been taken by the City to improve the quality of stormwater runoff discharged from the City.

Implementation of the Plans has been established on a 5 year permit cycle basis. The City has begun the first 5 year cycle by implementing a Monitoring Plan to establish a baseline for flow and pollutant loading of streams flowing from or through the City to Lake Thunderbird. Pollutants currently being monitored are nitrogen, phosphorus, and total suspended solids. BMPs are also being implemented as part of the City's Compliance Plan, primarily through educational campaigns, enhancing existing programs, and working towards more frequent cleaning efforts. These efforts during the first 5 years are aimed at reducing pollutants in stormwater runoff at the source. The Plans and the results of the monitoring will be reviewed at the end of this initial 5 year cycle to determine where best to establish structural BMPs during the next 5 year cycle.

On January 26, 2016, City Council approved Contract No. K-1516-79 by and between the City of Norman and OWRB in the amount of \$229,756.23. OWRB implemented the monitoring program in March 2016. Installation of stream gauging stations was completed in May 2016. Monthly monitoring is ongoing at ten (10) permanent monitoring stations. An additional fourteen (14) major stormwater outfalls have been identified, and seven (7) of these sites are sampled once per quarter.

A Lake Thunderbird Watershed TMDL Technical Working Group was established in 2016. This Working Group includes technical staff from the Cities of Moore, Norman, and Oklahoma City. The goal of the group is to collaborate on common non-structural BMPs and share information each has learned during the TMDL implementation process. In 2018, it was renamed as the Lake Thunderbird Watershed Partnership and has implemented a branding strategy, which includes a

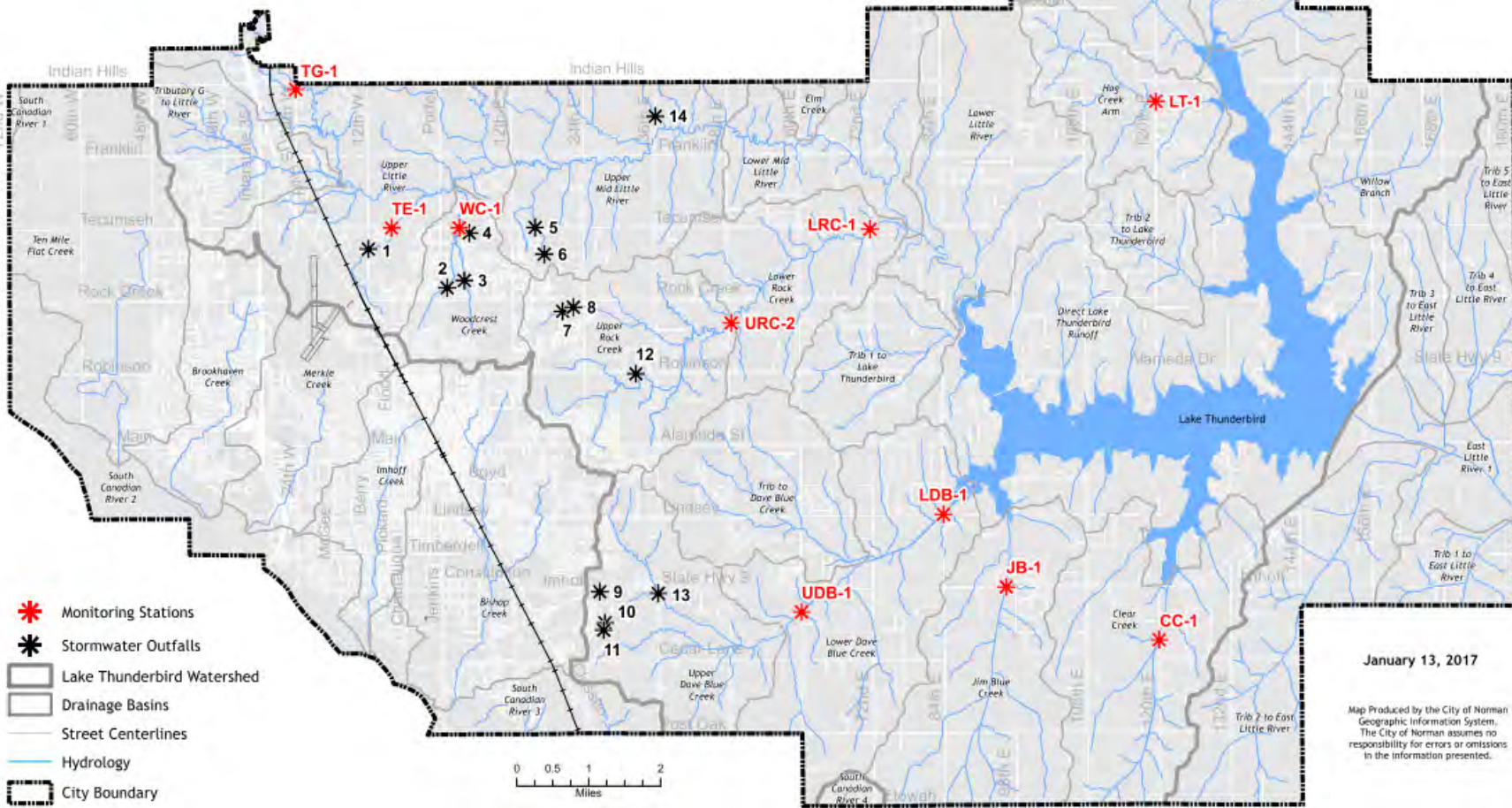
logo and tagline, for use by all three cities. Additionally, a collaborative website was developed and implemented: www.thunderbirdwatershed.org. Watershed signs have been created and will be installed in FYE 2020. A joint Lake Thunderbird Watershed Workshop and Clean-up Event to be held at the Lake Thunderbird State Park is also being planned for FYE 2020.



Pollutant Reductions Based on WTM Models in the City of Norman TMDL Compliance Plan							
Pollutant	Jim Blue	Clear Creek	Lake Thunderbird and Laterals	Little River	Rock Creek	Dave Blue	Total for FYE 2019 (lbs)
Phosphorus	76.7	72.7	441.6	125.6	68.8	90.4	875.8
TSS	2,874	2,721	16,563	53,510	31,105	31,795.2	138,568.2
Nitrogen	464.9	440.1	2,679	797.5	497.8	643	5,522.3



City of Norman Lake Thunderbird TMDL Monitoring Stations & Stormwater Outfalls



Section 4. Optional Permit Coverage under MCM #7

All City construction projects active in the reporting period were either under control of a contractor/construction site operator and/or less than one acre of disturbed area. All construction site operators performing earth disturbing activities within the boundary of the City of Norman are informed that they must comply with all federal, state and local regulations related to erosion control and stormwater runoff.

4.1 Active Projects

None in reported period

4.2 Started Projects

None in reported period

4.3 Completed Projects

None in reported period

Section 5. Summary/Permittee Information

5.1 Permittee Information

Permittee	City of Norman, Oklahoma
Address	201 West Gray, Bld A
City/State/Zip	Norman, OK 73069
Contact	Carrie J. Evenson, Ph.D., P.E., CFM Stormwater Program Manager
Contact Phone	(405) 366-5455
Authorization No.	OKR040015
Authorization Date	November 29 th , 2005

5.2 Certification

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.

Signature:  _____

Date: 10/1/19

Name (printed): Breeta Clark

Title: Mayor

Appendix A: Supporting Documentation

MCM #1: PUBLIC EDUCATION AND OUTREACH

Stormwater Quality Website

The screenshot shows the City of Norman website's Stormwater Division page. The header includes the City of Norman logo and navigation tabs: City Government, Public Safety, Parks & Recreation, How Do I..., Quick Links, Norman Life, and Implementation Plan. The main content area is titled "Stormwater Division" and includes a search bar, a "What's New?" section with links to upcoming events and runoff roundups, and an "About Us" section explaining the MS4 system. A sidebar on the left lists various city departments and provides contact information for the Stormwater Division. A video player titled "Stormwater to Drinking Water" is embedded in the main content area, showing a diagram of the stormwater collection and treatment process.

City of Norman
Building an Inclusive Community
Home of the University of Oklahoma

City Government | Public Safety | Parks & Recreation | How Do I... | Quick Links | Norman Life | Implementation Plan

Home » Public Works » Stormwater Division

LINKS

- Public Works
 - Administration
 - Engineering Division
 - Pest Division
 - Moving Forward
 - Street Division
 - Stormwater Division
 - Lake Thunderbird Watershed
 - Master Plan
 - Staff
 - Storm Drain Marking
 - Stormwater Quality
 - Related Links
 - Traffic Division

City of Norman
Public Works
201 West Gray, Bldg. A
Norman, OK 73069
Storm Water Pollution Prevention
Phone: (405) 368-6435
Construction Site Erosion Control
Phone: (405) 368-6486
Storm Water Drainage
Phone: (405) 368-6465
FAX: (405) 368-6415
Email

Stormwater Division

Have questions about stormwater quality or maintenance concerns?
Contact us: pwwstormwater@normanok.gov

What's New?

- Upcoming Events
- Latest Editions of Runoff Roundup
- Need a Rain Barrel?

About Us

The Stormwater Division is responsible for the protection of the health, safety, and welfare of the people of Norman by the regulation of non-stormwater discharges to the City's municipal separate storm sewer system (MS4) as well as the management, maintenance, and improvement of this system.

The MS4 consists of a series of underground pipes, open channels, ditches, and roadways used to collect or convey stormwater. Water and other materials that enter this system are transported directly to our creeks and streams without any treatment.

Our major responsibilities include:

For stormwater quality purposes:

- Responding to citizen requests.
- Controlling the direct or indirect introduction of pollutants into the MS4 by stormwater discharges from any source or user.
- Controlling the introduction into the MS4 of any spills or dumped or disposed material other than stormwater.
- Prohibiting illicit connections and illegal discharges to the MS4.
- Inspecting and monitoring the MS4 to ensure compliance with applicable stormwater requirements.
- Inspecting and enforcing stormwater requirements at construction sites.

For stormwater maintenance purposes:

- Responding to citizen requests.
- Providing for the management and maintenance of the MS4 for flood control purposes.
- Performing erosion control and debris removal within publicly owned drainage ways.
- Maintaining approximately 102 miles of storm sewers.
- Maintaining bridges and culverts.
- Conducting street sweeping on major arterial and collector streets.
- Providing emergency disaster response related to flooding, winter storms, severe storms, and non-hazardous material chemical spills.
- Providing right-of-way vegetation maintenance, and
- Coordinating rural drainage improvement projects with Cleveland County.

What is Stormwater?

Stormwater is water that runs off impervious surfaces such as rooftops, roadways, driveways, parking lots, and other hard surfaces. All properties that have these features generate stormwater runoff.

Stormwater to Drinking Water

Where does Stormwater go when it runs off my roof or driveway?

In urban areas, stormwater runoff from impervious surfaces flows along the side of the road until it reaches a storm drain, which is an opening or grate in the curb. From there, the water flows through a series of underground pipes, open channels, or ditches (the MS4) until it reaches the nearest creek or stream. This water is not treated along the way so any pollutants (oil, trash, fertilizer, pesticides) it may be carrying are deposited directly into our local creeks and streams and eventually reach Lake Thunderbird or the Canadian River.

Why should I be concerned about Stormwater runoff?

Stormwater runoff can carry pollution from impervious surfaces to nearby creeks and streams through the City of Norman's storm sewer system. Any pollutant exposed to stormwater is at risk of being washed into storm drains and carried to local waters that we use for drinking water and/or recreation, like Lake Thunderbird.

In addition to the potential to pollute our creeks and streams, increased volumes of stormwater runoff from impervious surfaces can lead to flooding. As we add houses, driveways, roadways, and parking lots, the areas where water can soak into the ground decreases. As a result, the volume of water that runs off these areas increases. During heavy rainfall events, our storm sewer system can be overwhelmed by this volume and result in flooding of low-lying areas.

City of Norman, 201 W Gray St, Norman, OK 73069
Contact Us: About the Site
Copyright © 2018

GreenNorman – Environmental Information Website

The screenshot shows the City of Norman GreenNorman website. The header includes the City of Norman logo and navigation tabs: City Government, Public Safety, Parks & Recreation, How Do I..., Quick Links, Norman Life, and Implementation Plan. The main content area is titled "Green Norman" and includes a search bar, a "Quick Links" section with links to Blue Thumb, Citizens Organized to Recycle our Environment (CORE), Energy Audits (OG&E), U.S. Environmental Protection Agency (EPA), Oklahoma Department of Environmental Quality, and Train Service (AMTRAC), and a "Green Norman" section with links to Accomplishments, Energy Conservation, Green Team, Land Use & Transportation, Norman 2025 Plan, Waste Management, Water, and Water Conservation. A sidebar on the left lists various city departments and provides contact information for the GreenNorman website. A video player titled "Stormwater to Drinking Water" is embedded in the main content area, showing a diagram of the stormwater collection and treatment process.

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City Government | Public Safety | Parks & Recreation | How Do I... | Quick Links | Norman Life | Implementation Plan

Home » Norman Life » Green Norman

QUICK LINKS

- Blue Thumb
- Citizens Organized to Recycle our Environment (CORE)
- Energy Audits (OG&E)
- U.S. Environmental Protection Agency (EPA)
- Oklahoma Department of Environmental Quality
- Train Service (AMTRAC)

GREEN NORMAN

- Green Norman
 - Accomplishments
 - Energy Conservation
 - Green Team
 - Land Use & Transportation
 - Norman 2025 Plan
 - Waste Management
 - Water
 - Water Conservation

Green Norman

[City of Norman Accomplishments](#)

[City of Norman Green Team](#)

[Water Conservation Information](#)

[Fertilizer Ordinance Brochure](#)

[Water's Worth It PSAs](#)

[Eastern Red Cedar](#)

[Recycling and Compost Information](#)

UPCOMING EVENTS

Check back often for upcoming Green Norman events!

City of Norman, 201 W Gray St, Norman, OK 73069
Contact Us: About the Site
Copyright © 2017

Utility Bill Insert – November 2018



Fertilizers and pesticides are among the many common stormwater pollutants that can degrade water quality. Though fertilizers contain chemicals that are good for lawns and plants when applied at the right time and at the right amounts, too much applied to lawns and gardens at the wrong times can wash off and pollute local streams and Lake Thunderbird. So if you fertilize, follow these tips and comply with the City of Norman's Manufactured Fertilizer Ordinance:

- Don't apply fertilizer when it's raining or rain is in the forecast.
- Sweep or blow fertilizer on streets, driveways and sidewalks back onto your yard or dispose of properly.
- Don't apply fertilizer within 25 feet of any wetland, watercourse or stormwater basin.
- Don't blow or dump grass clippings, leaves or any yard waste in streets, storm drains or waterways.
- Test your soil before applying any fertilizer containing phosphorus.



City of Norman
Stormwater Division

329-2524
pwstormwater@normanok.gov

Rain Barrel Newspaper Ad – February 2018

Examples of Promotional Items

Noble Schools break ground on new projects

By Jennifer Pedersen
For the Transcript

Noble Schools had ground-breaking ceremonies for several new projects in the district. At the ceremony, Superintendent David H. Smith, Jr. and other school leaders gathered to celebrate the start of construction on several new projects, including a new high school, a new middle school, and a new elementary school.

The new high school, located at 10000 N. 100th Ave., is a 1.2 million square foot facility that will serve students in grades 9-12. The new middle school, located at 10000 N. 100th Ave., is a 1.2 million square foot facility that will serve students in grades 6-8. The new elementary school, located at 10000 N. 100th Ave., is a 1.2 million square foot facility that will serve students in grades K-5.

The district is excited to announce these new projects and the progress they are making in providing quality education for all students.

Police:

From Page A1

The Norman Police Department is looking for information about a person who was seen near the intersection of 10th and 100th Ave. on Feb. 17, 2018. The person was seen walking towards the intersection and was wearing a dark jacket and light-colored pants. The person was seen walking towards the intersection and was wearing a dark jacket and light-colored pants.

Recycle the Rain

A rain barrel program is being implemented in the City of Norman. The program allows residents to receive a rain barrel for free if they agree to participate in the program. The program is designed to help reduce water usage and conserve water.

Take a Taste of the Wild

New Simple Rewards Program for Taste of the Wild Dog and Cat food.

Buy 10 get 1 FREE!!!
(same size bag)

and New Prey Dog and Cat food
Buy 8 get 1 FREE!!!
(same size bag)

Exhibit

Exhibit 1: The City of Norman is proud to present this exhibit. The exhibit is designed to help residents learn more about the city and the services it provides.



Facebook Posts



City of Norman, OK - City Government

June 10 · 🌐

Have a question? Need to report a City of Norman related issue?

The Action Center is the City of Norman's easy, central point for information or to report concerns regarding City issues. Contact the Action Center at 405-366-5396 or action.center@normanok.gov.



Like

Comment



Write a comment...



City of Norman, OK - City Government

March 28 · 🌐

"We just don't have the resources or manpower to do anything proactive which is where we would like to be because an ounce of prevention is worth a pound of cure." - Michelle Loudenbeck, Stormwater Program Specialist

Norman's Stormwater Division has three maintenance crews and three inspectors to cover the town's entire 190 square mile area. Watch this video to learn more about what they do and how the proposed Stormwater Utility (prop 3) would help maintain Norman's stormwat... [See More](#)



Watch together with friends or with a group

[Start Watch Party](#)



59 Comments 53 Shares

Like

Comment

Share



Stormwater Quality Quarterly



June 2019



City of Norman Contact Information

Stuart Shumate, CSI
Stormwater Compliance
Inspector
Office: 405-217-7777
Cell: 405-323-7155/370-3295

Faith Haynes
Stormwater Compliance
Inspector
Office: 405-366-5453
Cell: 405-370-3295

Michele Loudonback,
RPES, CFM
Stormwater Program
Specialist
Office: 405-366-5435
Cell: 405-473-0578

Carrie Evenson, Ph.D., PE, CFM
Stormwater Program
Manager
Office: 405-366-5455
Cell: 405-365-4928

pwstormwater@normanok.gov
[http://www.normanok.gov/
content/storm-water-quality](http://www.normanok.gov/content/storm-water-quality)

**Oklahoma Department of
Environmental Quality
Contact Information**
Stormwater Program
Office: 405-702-8100
[http://www.deq.state.ok.us/
wqdnw/stormwater/
index.html](http://www.deq.state.ok.us/wqdnw/stormwater/index.html)

Spring and Early Summer Tips to Prevent Stormwater Pollution

Spring and summer are prime time for lawn care, gardening, and hanging out by the pool or at the lake. Without awareness, these activities can dramatically affect our water quality. Any pollutant, such as fertilizer, pesticides, herbicides and lawn waste, if exposed to stormwater, is at risk of being washed into storm drains and carried to local waters that we use for drinking water and/or recreation, like Lake Thunderbird or the Canadian River. These pollutants can reduce our ability to use our waters beneficially and can even lead to harmful algal blooms.

Here are a few things you can do to help keep our stormwater clean:

- Avoid overwatering your lawn and garden and adjust your sprinklers so that irrigation water does not fall on streets, sidewalks or driveways. Overwatering can increase plant disease, deplete the soil of nutrients and increase your water bill, while watering impervious surface can increase the number of pollutants in your runoff.
- Test your lawn and only apply fertilizer at the recommended rate. Most of Norman's soils have sufficient phosphorus for a healthy lawn.
- Don't apply pesticides, fertilizers and herbicides before it rains or when your lawn is saturated. The rain won't help soak the chemicals into the ground but will cause polluted runoff, which will drain into or local creeks and lakes.
- Never dispose of grass clippings and other yard waste by dumping, blowing, or sweeping it into the street or storm drains. Yard waste adds excessive nutrients to streams and can deplete oxygen from the water causing harm to aquatic life and increasing the incidence of algal blooms.
- Consider reducing impervious surfaces and/or installing a rain garden. Both of these actions can reduce the amount of runoff from your property, thus reducing the amount of pollutants leaving your property.
- Take the time to bag your pet's waste. Stormwater runoff can carry bacteria from pet waste into streams.
- Make use of natural alternatives to pesticides and chemical fertilizers.

BUILDERS' CORNER

19 Builders Workshop! Norman has partnered with Ideal Homes, and it to present a workshop on Low Impact Development practices, using the backdrop. Lunch and door prizes are provided. **RSVP by June 17 to** pw@normanok.gov or 405-329-2524.

aint wash water can be harmful to fish and other wildlife? Concrete wash water contains toxic metals, and paint wash water can contain trace toxic metals as well as toxic chemicals. Used to prevent the deterioration of both liquid and dried paint. Concrete wash water has a high pH around 12 which means it is corrosive. It has a pH of 13.5 while aquatic organisms can safely live in water with a pH of 6.5 to 8.5. Caustic wash water can harm fish gills and eyes and can interfere with the ability of aquatic organisms to breathe. If dumped on the ground or leaks out of washout containers, it can run off into storm drains, which discharge directly to surface waters such as creeks, rivers, or lakes. Rainwater polluted with wash water can also percolate down through the soil and alter the soil chemistry, inhibit plant growth, and contaminate the groundwater. A wash water with high pH can also increase the toxicity of other substances in the surface waters and soils. There is something you can do, though, to help protect our soils and water from contamination. Just follow these four simple practices:

- Direct all wash water into properly-sized, leak-proof containers
- Do not dump liquid wastes into storm sewers
- Dispose of liquid wastes properly
- Remove and dispose of hardened concrete waste properly



LETTING NATURE DO ITS JOB: RAIN GARDENS

WANT TO HELP?



Rain gardens are beautiful landscape features that require less maintenance and fewer chemicals than lawns. They capture runoff from impervious areas such as roofs and driveways and allow it to seep slowly into the ground.

Rain gardens provide for the natural infiltration of rainwater into the soil. This helps to filter out pollutants including fertilizers, oils,

pesticides, heavy metals, and other chemicals that are carried with the rainwater that flows across your lawn, rooftop, driveway and streets. Rain gardens also help to reduce peak storm flows, helping to prevent streambank erosion. These systems allow you to have an attractive landscape with less watering while providing habitat for wildlife such as hummingbirds, honeybees, and butterflies.



Help keep our watersheds clean! The City of Norman has an **Adopt-a-Street** program that your group (ages 11 and up) can join! A two-year commitment is required, and streets should be cleaned every 60 days. The City provides training, trash bags, safety vests, traffic control devices, and removes and disposes of the collected trash. Interested? Call the Traffic Control Division at 405-329-0528.

Interested in conducting a **park or creek clean-up**? We provide gloves, bags, trash grabbers, and removal and disposal of collected trash. Call Michele at 405-366-5435.

Want to help mark storm drains? We need your help! We provide markers, glue, safety vests, and training. Call Michele at 405-366-5435.

DON'T BLOW IT!




Did you receive a door hanger notice about grass clippings in the street? While blowing grass into the street may seem harmless, it causes pollution of our creeks and streams and contributes to flooding. Additionally, it is a violation of our ordinance (Ord. 0-1213-34) and can carry a fine of up to \$200 per violation. Though we have been educating the public regarding the violation with the door hangers for the past couple of years, we now must move to the next step. Be aware that more than one warning can lead to additional enforcement and potential citations. Have questions? Call the Division at 405-329-2524.

MCM #2: PUBLIC PARTICIPATION AND INVOLVEMENT



Earth Day Festival, April 28, 2019

Vision for Norman Open Houses, March 2019



VOTE APRIL 2, 2019

VISION FOR NORMAN

OUR ROADS. OUR WATER. OUR FUTURE.

Learn more at VisionForNorman.com

On April 2, 2019 residents will vote on three separate propositions that fund needed infrastructure and maintenance projects.

PROPOSITION 1	PROPOSITION 2	PROPOSITION 3
Transportation Bond <ul style="list-style-type: none"> \$72 million General Obligation bond 39 projects including construction of a new Traffic Management Center, widening and reconstruction of roads, installation of new traffic signals, improvements to stormwater drainage systems and the addition of sidewalks and multimodal paths Leverages federal funding for a total investment of \$139 million Does not increase current taxes 	Stormwater Bond <ul style="list-style-type: none"> \$60 million General Obligation bond 33 infrastructure projects citywide that reduce flooding and replace aging, undersized drainage structures Addresses critical flooding and water pollution issues Raises property taxes based on market value. For example a property with a \$150,000 market value would pay approximately \$5.25 a month. 	Stormwater Utility <ul style="list-style-type: none"> Amount: \$7.4 million Raises an estimated \$4.2 million annually and \$3.2 million contribution from General Fund to keep costs as low as possible for residents Addresses required stormwater operation and maintenance needs \$3.55, \$9 tiered rate structure for residential based on first-floor living area Low income credit, agricultural credit and neighborhood assistance available \$12, \$45, \$80, \$160 non-residential tiered rate structure based on total parcel size The entire city will see projects and benefits

Public open houses are scheduled for March 2, March 4, March 8, March 11, March 23, and March 28. For more information and to see interactive project maps visit www.VisionForNorman.com.

VOTER INFORMATION

Citizens must be registered to vote in the City of Norman in order to be eligible to vote in the April 2, 2019 Bond and Utility Election.

IMPORTANT ELECTION DATES:

- March 8: Last day to register to vote
- March 27: Last day to apply for an absentee ballot
- March 28 - 29: In-person early voting
- April 2: Election Day

Residents can download voter registration forms or find their polling place at clevelandcountyelectionboard.com.

MCM #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

Dry Weather Field Screening Form – Example from October 2018



DRY WEATHER FIELD SCREENING & ILLICIT DISCHARGE REPORT FORM



SECTION 1: BACKGROUND DATA

Hydrologic Unit Code (HUC) 12 Watershed: 110902020305, Upper Little River	DWIS <input checked="" type="checkbox"/> Complaint <input type="checkbox"/>	Date: 5/16/17	Time: 16/24
Outfall ID: BLS OR: Generating Site Address:	Investigator: M. Loudenbuck		
Form completed by: Michele Loudenbuck	Photo #'s: Attached		
Rainfall (in): Last 24 hours: 0. Last 48 hours: 0.			
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input type="checkbox"/> Open Space		
<input checked="" type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input type="checkbox"/> Suburban Residential	Other:		
<input type="checkbox"/> Commercial			
Notes: Concrete Culvert under G.T.B.			

SECTION 2: OUTFALL DESCRIPTION

LOCATION
<input checked="" type="checkbox"/> Pipe
<input checked="" type="checkbox"/> Open drainage
<input type="checkbox"/> In-Stream

Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If No, Skip to Section 4)</i>
Flow Description (If present)	<input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial

SECTION 3: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other	<input type="checkbox"/> 1 – Faint <input type="checkbox"/> 2 – Easily detected <input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other	<input type="checkbox"/> 1 – Faint colors in sample bottle <input type="checkbox"/> 2 – Clearly visible in sample bottle <input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness <input type="checkbox"/> 2 – Cloudy <input type="checkbox"/> 3 – Opaque
Floating Debris (Does Not Include Trash!)	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Sludge <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other	<input type="checkbox"/> 1 – Faint light greenish tint <input type="checkbox"/> 2 – Some indications of origin (e.g., possible sludge or oil sheen) <input type="checkbox"/> 3 – Some origin clear (e.g., obvious oil sheen, sludge, or floating sanitary material visible)

SECTION 4: PHYSICAL INDICATORS

Are physical indicators that are not related to flow?

INDICATOR	CHECK IF Present
Outfall Damage	<input checked="" type="checkbox"/>
Deposits/Sludge	<input type="checkbox"/>
Abnormal Vegetation	<input type="checkbox"/>
Poor pool quality	<input checked="" type="checkbox"/>
Pipe/benthic growth	<input checked="" type="checkbox"/>

SECTION 5: MODE OF ENTRY

<input type="checkbox"/> Sewer cross connection	<input type="checkbox"/> Industrial cross connection
<input type="checkbox"/> Straight pipe	<input type="checkbox"/> Seepage
<input type="checkbox"/> Commercial cross connection	<input type="checkbox"/> Spills
<input type="checkbox"/> Outdoor washing	<input type="checkbox"/> Non-target irrigation
<input type="checkbox"/> Other	<input type="checkbox"/> Sewer overflow
Location of entry to stormsewer: _____	

SECTION 6: GENERATING SITE

<input type="checkbox"/> Residential	<input type="checkbox"/> Institutional
<input type="checkbox"/> Sewer cross connection	<input type="checkbox"/> Natural Causes
<input type="checkbox"/> Municipal	<input type="checkbox"/> Unknown
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other
Location of discharge origin: _____	
Estimated amount of discharge: _____	


SECTION 7: ANY NON-ILLICIT DISCHARGE CONCERNS (E.G. TRASH OR NEEDED INFRASTRUCTURE REPAIRS)?
The channel is cracked and undermined.

SECTION 8: ANY ANALYSES PERFORMED; IF SO, WHAT?

Pictures:




Spill Response Form – Example from April 26, 2019



**City of Norman
Stormwater Quality**

SPILL RESPONSE REPORT



Site Name/Address: Chautauqua Ave
Date/Time: 4/26/2019 4:35 AM
Responding Personnel: Faith Haynes and John Curtis

Current Weather: Clear
Spill Quantity: Approximately 12 Quarts


Checklist	Yes	No	N/A	Comments
Has the spilled material discharged to the MS4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Discharged into the drainage channel
Has the spilled material reached an MS4 outfall?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the spill been contained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the spilled material been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oil
Does the spilled material pose a health hazard?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the spilled material pose an environmental hazard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the spill require notification to other entities (ODEQ, ODOT, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Has the spill been properly cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the responsible party been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has the responsible party been notified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

☐ Attached Documents –

Location Map



Spill Response Documentation

Photo	Action Description
	
	

Comments
 The above incident occurred Friday, April 26, 2019, sometime during the afternoon hours. The driver of a Frontend Loader Trash Truck, fully loaded with trash, went off the road and rolled onto its side into the drainage channel. This caused some oil to discharge into standing water within the drainage channel. When we arrived onsite, the oil had not migrated to other parts of the drainage channel. Controls were placed around the truck and at multiple points along the channel to prevent further movement while the truck was removed. Once the truck was pulled from the channel, the contaminated soil and water was removed and properly disposed of.

Inspector's Name: Faith Haynes

Date: April 26, 2019

MCM #4: CONSTRUCTION SITE RUNOFF CONTROL



CITY OF NORMAN STORM WATER QUALITY EARTH CHANGE PERMIT APPLICATION

FORM - (Please Print or Type in Blue)



PROJECT INFORMATION

NAME OF PROJECT: _____
ADDRESS: _____
DISTURBED AREA (ACRES): _____ LATITUDE: _____ LONGITUDE: _____
PROPOSED START DATE: _____ PROPOSED END DATE: _____
LOCATION BY STORM WATER POLLUTION PREVENT PLAN (SWPPP): ☐ ONSITE ☐ OFFSITE ☐ N/A
ADDRESS (IF LOCATED OFFSITE): _____

APPLICANT/OWNER/OPERATOR ☐ PRIMARY CONTACT ☐ SECONDARY CONTACT

NAME (PRINTED): _____ COMPANY: _____
ADDRESS: _____ CITY: _____ STATE: _____
PHONE: _____ CELL: _____ E-MAIL: _____

GENERAL CONTRACTOR ☐ PRIMARY CONTACT ☐ SECONDARY CONTACT

☐ CHECK IF SAME AS APPLICANT
NAME (PRINTED): _____ COMPANY: _____
ADDRESS: _____ CITY: _____ STATE: _____
PHONE: _____ CELL: _____ E-MAIL: _____

ENGINEER/DESIGNER

NAME (PRINTED): _____ COMPANY: _____
ADDRESS: _____ CITY: _____ STATE: _____
PHONE: _____ CELL: _____ E-MAIL: _____

SUISSE RIVER BASIN		
PERMIT NO.	WARD	FEE
WATERSHED	SUISSE WATERSHED	
RECEIVING WATER	DATE	
APPROVED BY		

SUBMITTABLE	
<input type="checkbox"/>	1. JAC
<input type="checkbox"/>	2. SWP
<input type="checkbox"/>	3. ECR
<input type="checkbox"/>	4. CHD



City of Norman Stormwater Division

CONSTRUCTION SITE COMPLIANCE ASSISTANCE VISIT



Site Name/Address/Responsible Party

Date/Time: 4/11/18 10:00 AM - 11:00 AM Current Weather: Select Weather
Current Activity: Inactive Quantity: Select Quantity
Last Rain Date: 4/10/18 10:00 AM - 11:00 AM Last Inspection Date: 4/10/18 10:00 AM - 11:00 AM

Deficiency	Yes	Recommendation
No Earth Change Permit	<input type="checkbox"/>	
Non-allowable Discharge	<input type="checkbox"/>	
Erosion/Sediment Control Installation	<input type="checkbox"/>	
Buffer Implementation	<input type="checkbox"/>	
Materials Washout	<input type="checkbox"/>	
Medium and Large Spills	<input type="checkbox"/>	
Inlet Protection, No Basin	<input type="checkbox"/>	
Construction Entrance with Tracking	<input type="checkbox"/>	
Vehicle/Equipment Tracking outside Project	<input type="checkbox"/>	
Portable Toilet Installation	<input type="checkbox"/>	
Repeat Non-Critical Issue	<input type="checkbox"/>	
Records	<input type="checkbox"/>	
BMP Maintenance	<input type="checkbox"/>	
Vehicle/Equipment Tracking inside Project	<input type="checkbox"/>	
Solid Waste Management	<input type="checkbox"/>	
Stabilization	<input type="checkbox"/>	
Small Spills	<input type="checkbox"/>	
Portable Toilet Installation	<input type="checkbox"/>	
Other	<input type="checkbox"/>	

☐ No critical deficiencies noted. Per next inspection.
☐ Critical issues found. The critical notification, unless otherwise noted, critical issues are in inspection.

Inspector's Name

Deficiency Description:

Critical:

- No Earth Change Permit:** There is no Earth Change Permit on file with the city of Norman.
- Non-allowable Discharge:** There is a discharge from the site of one or more of the following: sediment, materials washout, dust, solid waste, or other pollutants.
- Erosion/Sediment Control Installation:** One or more erosion and/or sediment controls have been installed improperly. These controls include, but are not limited to, silt fence, compost sock, straw wattle, triangular silt dike, rock check dams, mulch (including hydromulch), sediment basin, etc.
- Buffer Implementation:** The appropriate silt fence or equivalent controls have been implemented near adjacent waterways.
- Materials Washout:** There is washout on the ground of certain materials including, but not limited to, concrete, paint, masonry, drywall mud, and/or other pollutants.
- Medium and Large Spills:** There are spills or leaks of vehicle or equipment fluids that are either greater than 5 gallons in volume or 2 square feet in size.
- Inlet Protection, No Basin:** There is no or inadequate inlet protection in place for projects where the inlets do not drain to a sediment basin.
- Construction Entrance with Tracking:** Vehicle and/or equipment tracking is occurring onto non-project roads because of needed maintenance or improper installation of a construction entrance.
- Vehicle/Equipment Tracking outside Project:** Vehicle and/or equipment tracking is occurring outside of the project area.
- Portable Toilet Installation:** A portable toilet has been installed near stormwater infrastructure, including ditches, or has tipped over in the past because it is not staked properly.
- Repeat Non-critical Issue:** A non-critical issue has been present for three regularly scheduled inspections.

Non-critical:

- Records:** Records, including inspections and site maps, are not available or are not updated.
- BMP Maintenance:** BMPs are in need of maintenance but are not causing a non-allowable discharge. BMPs include, but are not limited to, concrete washout containment, trash receptacles, and erosion and/or sediment controls.
- Vehicle/Equipment Tracking inside Project:** Vehicle and/or equipment tracking is occurring inside the project area. This includes tracking onto City-owned streets if infrastructure drains to a sediment basin or is present.
- Solid Waste Management:** Trash is not being contained in a covered, lock-proof container but is not leaving the site or project area.
- Stabilization:** Intensive and/or final stabilization is not in place but other controls are adequately preventing non-allowable discharges of sediment.
- Small Spills:** Spills and/or leaks are present but are not greater than 5 gallons in volume or larger than 2 square feet in size.
- Portable Toilet Installation:** Portable toilets have not been installed but are not near stormwater infrastructure nor have tipped over in the past.
- Other:** Another type of concern is present but is not causing a non-allowable discharge.



City of Norman Stormwater Quality CONSTRUCTION SITE FOLLOW-UP INSPECTION REPORT



Site Name/Address/Responsible Party

Date/Time: 4/11/18 10:00 AM - 11:00 AM Current Weather: Select Weather
Current Activity: Inactive Quantity: Select Quantity
Last Rain Date: 4/10/18 10:00 AM - 11:00 AM Last Inspection Date: 4/10/18 10:00 AM - 11:00 AM

Concern	Compliant	Non-Compliant	N/A	Comments about the overall effectiveness of the erosion and sediment control measures. Note: For each item checked "Non-Compliant", refer to the follow-up information on page 2.
No Earth Change Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Non-allowable Discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Erosion/Sediment Control Installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Buffer Implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Materials Washout	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Medium and Large Spills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inlet Protection, No Basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Construction Entrance with Tracking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vehicle/Equipment Tracking outside Project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Portable Toilet Installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Repeat Non-Critical Issue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- ☐ Site IS in compliance with current permit regulations.
☐ Site IS NOT in compliance with current permit regulations within 14 calendar days, unless otherwise noted, to avoid
☐ Notice of Violation pending.
☐ Notice of Violation issued.

Maintenance/Corrective Action Required

BMP Location	Recommendation (Photo)	Action Required

Site Notes:

Inspector's Name

Date: September 4, 2018

Concern Description:

Critical:

- No Earth Change Permit:** There is no Earth Change Permit on file with the city of Norman.
- Non-allowable Discharge:** There is a discharge from the site of one or more of the following: sediment, materials washout, dust, solid waste, or other pollutants.
- Erosion/Sediment Control Installation:** One or more erosion and/or sediment controls have been installed improperly. These controls include, but are not limited to, silt fence, compost sock, straw wattle, triangular silt dike, rock check dams, mulch (including hydromulch), sediment basin, etc.
- Buffer Implementation:** The appropriate silt fence or equivalent controls have been implemented near adjacent waterways.
- Materials Washout:** There is washout on the ground of certain materials including, but not limited to, concrete, paint, masonry, drywall mud, and/or other pollutants.
- Medium and Large Spills:** There are spills or leaks of vehicle or equipment fluids that are either greater than 5 gallons in volume or 2 square feet in size.
- Inlet Protection, No Basin:** There is no or inadequate inlet protection in place for projects where the inlets do not drain to a sediment basin.
- Construction Entrance with Tracking:** Vehicle and/or equipment tracking is occurring onto non-project roads because of needed maintenance or improper installation of a construction entrance.
- Vehicle/Equipment Tracking outside Project:** Vehicle and/or equipment tracking is occurring outside of the project area.
- Portable Toilet Installation:** A portable toilet has been installed near stormwater infrastructure, including ditches, or has tipped over in the past because it is not staked properly.
- Repeat Non-critical Issue:** A non-critical issue has been present for three regularly scheduled inspections.

MCM #5: POST-CONSTRUCTION STORMWATER MANAGEMENT

Water Quality Protection Zone

§ 2. THAT, Section 22:429.6 shall be added as follows:

SEC. 429.6 – WP, WATERSHED PROTECTION DISTRICT

1. Description and Purpose. The Watershed Protection District encompasses areas through which water drains into the Lake Thunderbird watershed, thus affecting the water supply derived from City wells and Lake Thunderbird. The City of Norman adopts a goal of nondegradation which maintains or improves the quality of water entering the various waterways in Norman and ultimately ending in Lake Thunderbird. Pollution prevention will be assured by requiring best management practices and development restrictions, where appropriate. Land uses which could adversely affect the water supply are generally prohibited, unless acceptable alternate methods are used that can be shown to substantially reduce or eliminate their negative affect on the water supply, thereby preventing the risk of contaminants in the surface water and ground water within the Lake Thunderbird watershed, and reducing the risks to the public health.

Detention Pond Inspection Form – July 31, 2018



**City of Norman
Storm Water Quality**









STORM WATER POND INSPECTION FORM

Site Name: Lowe's Pond Number: 331 Location: Hemphill Dr. (Between Walmart and Lowe's)
Date: 07/31/2018 Time: 11:30 Inspection Type: ☒ Initial ☐ Routine ☐ Other
Weather: Dry Last Rain Date: 07/30/2018 Amount: 2.05 in

Status: ☐ Under Construction ☐ Completed ☐ Agricultural Pond*
 ☐ Dry Pond ☒ Wet Pond

Inspection Checklist	Yes	No	N/A	Comments/Recommendations
Trash/Debris in or around pond?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Significant debris and trash located on all sides of the pond.
Erosion on pond side slopes, berms or outlet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some erosion seen on both north and south side of pond.
Sediment entering pond?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Excessive vegetation in pond?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Algal blooms present
Inlet/Outlet structures in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structurally sound inlet/outlets.
Trees in pond or on pond berms?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sheen or foam on water surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chemical/offensive odors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Nuisance wildlife present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other notes				

Photo #	Picture	Comments
LP-1		
LP-2		
LP-3		
LP-4		
LP-5		
LP-6		

Inspector: Michele Loudinback

*previously existing agricultural pond converted to detention use

MCM #6: MUNICIPAL GOOD HOUSEKEEPING

Monthly Employee Newsletter (October 2018)



CITY OF NORMAN

The Employee Connection

Working Together to Deliver Exceptional Service

October 2018



INTRODUCING INTERIM CITY MANAGER

MARY RUPP

Mary has joined the City of Norman team as Interim City Manager. She has been with us for two weeks now and has been visiting with management staff, Council and business community leaders to become acquainted with Norman's needs.

Mary is a former City Manager of Perry, OK, and prior to that the Deputy City Manager in Stillwater. She graduated with a Bachelor of Science Degree with a Major in Business Education from Kansas State University. She has deep roots in Oklahoma and brings with her a wealth of knowledge and experience.

Mary and her husband, Marvin, are parents of two grown sons, both married, and grandparents to four boys and one girl. In her spare time, she enjoys traveling, gardening, and watching sports.

"I am deeply honored by the Council's decision and look forward to serving as Interim City Manager for the City of Norman. I'm excited to work with each and every one of you to help continue to strengthen the Norman community. Each of you is a difference maker, and I believe together we will make a positive impact."

Mary will work closely with Council, staff and the community to move City business and operations forward. We are thrilled to have someone of Mary's experience working with us. If you see Mary around the grounds, please give



3RD ANNUAL LAKE THUNDERBIRD WORKSHOP AND CLEAN-UP EVENT

November 3, 2018

1pm-3pm

Lake Thunderbird BoatHouse

Head East on Alameda and then turn
left onto Indian Point Road and right
onto Boathouse Road

Join us for a conversation on Lake Thunderbird
water quality and then help clean up the watershed!

Get answers to questions such as:

- What is stormwater and how does it impact me and my community?
- How can I help protect our environment and water quality?

Supplies and snacks provided!

Prizes will be awarded!



For more information or to register:

Michele Loudonback

405-366-5435

michele.loudonback@normanok.gov



Appendix B

<i>Category</i>	<i>Description</i>
Blowing Dust	Calls regarding dust or sand being blown from construction sites
Debris/Dumping	Calls regarding improper disposal of materials or debris
Discharge	Calls regarding liquids other than stormwater flowing down the street or from a particular location
Drainage	Calls regarding stormwater runoff issues onto or away from property
Erosion	Calls regarding removal and transport of soil due to water or wind
Illicit Discharge	Calls regarding anything other than stormwater entering a storm drain or pipe
Property Maintenance	Calls regarding improper maintenance of property (e.g. overspray from pesticide or fertilizer applications)
Rain Barrels	Calls regarding purchasing or installing rain barrels
Sewage Bypass	Calls regarding sanitary sewer/wastewater spill or leak from sewer system
Spill	Calls regarding the release of any material/substance from its container
Storm Drain Maintenance	Calls regarding various issues related to storm drains (e.g. maintenance needs, unusual smells, etc.)
Swimming Pool Discharge	Calls regarding the discharge of swimming pool water into street or storm drain or onto neighboring property
Tracking	Calls regarding the transport of dirt off a construction site due to vehicle or equipment traffic
Utility Project	Calls regarding municipal utility projects
Yard Waste	Calls regarding blowing, sweeping, or otherwise placing grass clippings or leaves in the street or down a storm drain
<Unknown>	Calls that need additional follow-up or don't fit into other categories

Summary of All Calls July 1, 2018-June 30, 2019

<i>Date Received</i>	<i>Location</i>	<i>Complainant</i>	<i>Routed To</i>	<i>Category</i>	<i>Status</i>
7/2/2018	Alcott Middle School	Don Gras	Michele Loudenback	Yard Waste	CLOSED
7/24/2018	806 Hughbert	Unknown	Michele Loudenback	Yard Waste	CLOSED
7/30/2018	816 Carriage Ln	Unknown	Michele Loudenback	Erosion	CLOSED
8/3/2018	N/A	Unknown	Michele Loudenback	EnviroScope	CLOSED
8/6/2018	All Saints	Unknown	Faith Haynes	Yard Waste	CLOSED
8/6/2018	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
8/6/2018	N/A	Cindy Grantham	Michele Loudenback	Fertilizer	CLOSED
8/7/2018	4208 Valley Vista	Unknown	Streets SW Drainage	Discharge	CLOSED
8/7/2018	Vineyard and Montorro Ridge	Joe Hylton	Michele Loudenback	Erosion	CLOSED
8/7/2018	Vintage Creek	Unknown	Michele Loudenback	Discharge	CLOSED
8/7/2018	Rosewood Dr and Iowa	Unknown	Michele Loudenback	Utility Project	CLOSED
8/7/2018	5819 Windstone	Unknown	Streets SW Drainage	<Unknown>	CLOSED

8/9/2018	Lindsey St	Unknown	Streets SW Drainage	Debris / Dumping	CLOSED
8/9/2018	Highland Village	Unknown	Stuart Shumate	Discharge	CLOSED
8/9/2018	Boyd and 12th	Unknown	Stuart Shumate	Yard Waste	CLOSED
8/9/2018	Dollar General on Porter	Unknown	Michele Loudenback	Debris / Dumping	CLOSED
8/13/2018	1204 Columbia Ct.	Bonnie	Michele Loudenback	Yard Waste	CLOSED
8/14/2018	115 S. Santa Fe.	Unknown	Michele Loudenback	Discharge	CLOSED
8/17/2018	1325 Marion	Unknown	Michele Loudenback	Yard Waste	CLOSED
8/20/2018	1214 Northcliff Ave	Unknown	Michele Loudenback	Yard Waste	CLOSED
8/27/2018	St. James	Unknown	Michele Loudenback	Discharge	CLOSED
8/30/2018	Constitution and 12th Ave SE	Hans Osgood	Stuart Shumate	Yard Waste	CLOSED
8/31/2018	900 Cossack Dr.	Unknown	Michele Loudenback	Yard Waste	CLOSED
8/31/2018	2006 Barb Dr.	Unknown	Michele Loudenback	Discharge	CLOSED
9/4/2018	Hall Park	Bob Stroh	Michele Loudenback	Fertilizer	CLOSED
9/4/2018	2816 Frost Lane	Unknown	Stuart Shumate	Discharge	CLOSED
9/4/2018	504 E. Gray St.	Unknown	Stuart Shumate	Yard Waste	CLOSED
9/5/2018	Hassler's Restaurant	Unknown	Michele Loudenback	Discharge	CLOSED
9/6/2018	303 East Frank	Unknown	Stuart Shumate	Yard Waste	CLOSED
9/6/2018	830 W. Eufala	Unknown	Faith Haynes	Yard Waste	CLOSED
9/6/2018	Hall Park	Connie	Michele Loudenback	Fertilizer	CLOSED
9/7/2018	830 W. Eufala	Unknown	Unknown	Yard Waste	CLOSED
9/10/2018	303 Frank	Unknown	Michele Loudenback	Yard Waste	CLOSED
9/10/2018	301 Garrison	Unknown	Michele Loudenback	Yard Waste	CLOSED
9/10/2018	3714 Reid Pryor Rd.	Unknown	Michele Loudenback	Discharge	CLOSED
9/10/2018	Lowes Home Improvement	Unknown	Stuart Shumate	Yard Waste	CLOSED
9/10/2018	Lowes Home Improvement	Unknown	Stuart Shumate	Yard Waste	CLOSED
9/10/2018	Norman High School	Unknown	Stuart Shumate	Yard Waste	CLOSED
9/20/2018	520 Piney Oak Dr.	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
9/20/2018	5815 Windstone	Unknown	Michele Loudenback	Discharge	CLOSED
9/24/2018	1100 Garver St.	Unknown	Stuart Shumate	Yard Waste	CLOSED
9/25/2018	N/A	Unknown	Michele Loudenback	Blitz Volunteer	CLOSED

9/25/2018	526 Sunburst	Alexander Atuktawu	Michele Loudenback	Discharge	CLOSED
9/25/2018	Harbor Freight	Breea Clark	Michele Loudenback	Yard Waste	CLOSED
9/26/2018	N/A	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
9/26/2018	Wandering Oaks Lane	Unknown	Michele Loudenback	Yard Waste	CLOSED
10/2/2018	4605 Foxborough	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
10/5/2018	St. James	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
10/5/2018	University and Tonhawa	Unknown	Stuart Shumate	Yard Waste	CLOSED
10/5/2018	Lowe's Home Improvement	Unknown	Michele Loudenback	Yard Waste	CLOSED
10/10/2018	Dakota and 24th	Unknown	Michele Loudenback	Yard Waste	CLOSED
10/22/2018	Andrews park	Unknown	Michele Loudenback	Discharge	CLOSED
10/25/2018	Brookhaven	Unknown	Michele Loudenback	Discharge	CLOSED
10/29/2018	601 12 ne	Unknown	Stuart Shumate	Discharge	CLOSED
10/30/2018	8007 Gordon Circle	Unknown	Michele Loudenback	Sewage Bypass	CLOSED
11/2/2018	McFarlin Methodist Church	Unknown	Michele Loudenback	Yard Waste	CLOSED
11/2/2018	4400 W Main #125	Unknown	Michele Loudenback	Sewage Bypass	CLOSED
11/7/2018	4400 W. Main	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
11/15/2018	200 Main	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
11/16/2018	Symmes and Elm	Unknown	Michele Loudenback	Yard Waste	CLOSED
11/19/2018	1221 Garnet Road	Unknown	Michele Loudenback	Yard Waste	CLOSED
11/27/2018	3708 Shadow Ridge	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
11/29/2018	1209 W. Lindsey	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
11/30/2018	1632 Chamblee	Unknown	Michele Loudenback	Yard Waste	CLOSED
11/30/2018	N/A	Unknown	Michele Loudenback	Yard Waste	CLOSED
11/30/2018	712 W. Lindsey	Unknown	Michele Loudenback	Yard Waste	CLOSED
12/3/2018	Highland Parkway	Unknown	Michele Loudenback	Yard Waste	CLOSED
12/11/2018	N/A	Unknown	Michele Loudenback	Workshop	CLOSED
12/11/2018	McDonald's on Ann Branden	Unknown	Michele Loudenback	<Unknown>	CLOSED
12/11/2018	McDonald's on Ann Branden	Unknown	Michele Loudenback	Discharge	CLOSED

12/12/2018	Tarahumara	Unknown	Michele Loudenback	Discharge	CLOSED
12/18/2018	N/A	Unknown	Michele Loudenback	Tracking	CLOSED
1/2/2019	Medical Park West	Unknown	Michele Loudenback	Permitting	CLOSED
1/9/2019	East Side Library	Unknown	Unknown	Rain Barrels	CLOSED
1/10/2019	City Project	Unknown	Michele Loudenback	Permitting	CLOSED
1/10/2019	5505 132nd Ave SE	Unknown	Michele Loudenback	Drainage	CLOSED
1/11/2019	Symmes	Unknown	Carrie Evenson	Debris / Dumping	CLOSED
1/15/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
1/16/2019	Whittier	Unknown	Michele Loudenback	Information	CLOSED
1/16/2019	Flood And 24th Ave NW	Jason Vinson	Michele Loudenback	Drainage	CLOSED
1/16/2019	3801 Danfield	Unknown	Stuart Shumate	Discharge	CLOSED
1/17/2019	5505 132nd Ave SE	Unknown	Michele Loudenback	Drainage	CLOSED
1/17/2019	5505 132nd Ave SE	Unknown	Michele Loudenback	Drainage	CLOSED
1/22/2019	Hiland Dairy	Unknown	Michele Loudenback	Discharge	CLOSED
1/22/2019	24th Ave NE	Unknown	Michele Loudenback	Discharge	CLOSED
1/23/2019	Symmes and Santa Fe	Unknown	Michele Loudenback	Discharge	CLOSED
2/4/2019	St. James	Don Cervi	Michele Loudenback	Discharge	CLOSED
2/4/2019	3300 Black locust place	Unknown	Michele Loudenback	Discharge	CLOSED
2/7/2019	N/A	India Rose	Michele Loudenback	Rain Barrels	CLOSED
2/11/2019	N/A	Unknown	Michele Loudenback	Permitting	CLOSED
2/14/2019	1502 Melrose	Unknown	Michele Loudenback	Discharge	CLOSED
2/14/2019	N/A	Mike Zorba	Michele Loudenback	Drainage	CLOSED
2/18/2019	N/A	Unknown	Michele Loudenback	Permitting	CLOSED
2/20/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
2/21/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
2/25/2019	N/A	Unknown	Michele Loudenback	Fertilizer	CLOSED
2/26/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
2/26/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED

2/26/2019	3312 ash lane	Unknown	Michele Loudenback	Drainage	CLOSED
3/1/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
3/4/2019	Bishop Creek at Main	Unknown	Michele Loudenback	Clean-up Event	CLOSED
3/4/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
3/4/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
3/6/2019	Indian Hills Industrial Park	DeQ	Michele Loudenback	Information	CLOSED
3/7/2019	748 Dean's Row	Unknown	Michele Loudenback	Discharge	CLOSED
3/7/2019	Quality Towing	Unknown	Michele Loudenback	Drainage	CLOSED
3/7/2019	St. James	Unknown	Michele Loudenback	Discharge	CLOSED
3/7/2019	Main St and Willoway	Unknown	Michele Loudenback	<Unknown>	CLOSED
3/11/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
3/11/2019	1313 Stone Creek	Unknown	Michele Loudenback	Discharge	CLOSED
3/12/2019	Greenleaf Trails	Unknown	Michele Loudenback	Fertilizer	CLOSED
3/12/2019	Panda Express	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
3/13/2019	Highland Village	Unknown	Faith Haynes	Discharge	CLOSED
3/18/2019	1435 Eisenhower	Unknown	Faith Haynes	Illicit Discharge	CLOSED
3/18/2019	S side of Melrose	Unknown	Faith Haynes	Yard Waste	CLOSED
3/19/2019	N/A	Unknown	Michele Loudenback	Rain Barrels	CLOSED
3/20/2019	Woodcrest Plaza	Unknown	Michele Loudenback	Blowing Dust	CLOSED
3/21/2019	Castlerock Addition	Unknown	Unknown	Swimming Pool Discharge	CLOSED
3/21/2019	McFarlin Methodist Church	Unknown	Michele Loudenback	Yard Waste	CLOSED
3/21/2019	University and Symmes	Unknown	Michele Loudenback	Yard Waste	CLOSED
3/21/2019	215 E. Main	Unknown	Michele Loudenback	Debris / Dumping	CLOSED
4/17/2019	2100 24th Ave SE	Unknown	Unknown	<Unknown>	CLOSED
5/1/2019	Ashford Lane	Unknown	Michele Loudenback	Sediment	CLOSED
5/1/2019	1911 Ashford Lane	Unknown	Michele Loudenback	Sediment	CLOSED
5/2/2019	1002 Pickard	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
5/3/2019	2700 Northern Hills Rd.	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
5/6/2019	24th NW and Flood	Unknown	Michele Loudenback	Sediment	CLOSED

5/7/2019	24th Ave NE	Unknown	Michele Loudenback	Discharge	CLOSED
5/7/2019	1530 Melrose	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/7/2019	24th Ave NE and Robinson	Unknown	Michele Loudenback	Sediment	CLOSED
5/8/2019	24th Ave SE and Tahoe	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/8/2019	24th Ave SE & Alameda	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
5/8/2019	Willow Grove	Unknown	Michele Loudenback	Storm Drain Maintenance	CLOSED
5/9/2019	4212 Los Colinas	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
5/10/2019	Summit Lakes	Unknown	Michele Loudenback	Sediment	CLOSED
5/10/2019	unknown	Unknown	Michele Loudenback	Information	CLOSED
5/10/2019	1907 Jansing	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/13/2019	Main and n12	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/13/2019	Boyd and Oklahoma	Unknown	Michele Loudenback	<Unknown>	CLOSED
5/16/2019	West of Norman High	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/16/2019	Tecumseh Ridge	Unknown	Michele Loudenback	Drainage	CLOSED
5/20/2019	Bishop Creek	Unknown	Michele Loudenback	Information	CLOSED
5/20/2019	Boyd & Jenkins	Unknown	Unknown	<Unknown>	CLOSED
5/21/2019	2432 Butler Dr,	Unknown	Michele	Drainage	CLOSED
5/21/2019	Crestmont and Mercedes	Unknown	Michele Loudenback	Sediment	CLOSED
5/21/2019	unknown	Unknown	Michele Loudenback	Information	CLOSED
5/23/2019	Hemphill	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/23/2019	I35 and Main	Unknown	Michele Loudenback	Yard Waste	CLOSED
5/23/2019	Main St	Unknown	Michele Loudenback	Discharge	CLOSED
5/28/2019	Embassy Suites	Unknown	Michele Loudenback	Discharge	CLOSED
5/28/2019	3920 Waverly	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
5/29/2019	unknown	Unknown	Michele Loudenback	Information	CLOSED
5/30/2019	Highway 9 and 24th	Unknown	Michele Loudenback	<Unknown>	CLOSED
5/31/2019	707 Cockrel	Unknown	Michele Loudenback	Drainage	CLOSED
5/31/2019	Melrose and Wylie	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/3/2019	1614 Rowena	Unknown	Michele Loudenback	Yard Waste	CLOSED

6/3/2019	709 Ecockreel	Unknown	Michele Loudenback	Drainage	CLOSED
6/3/2019	132nd and Imhoff Rd	Unknown	Michele Loudenback	Discharge	CLOSED
6/3/2019	24th NW and Main	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/4/2019	516 Park Ave	Unknown	Michele Loudenback	Sediment	CLOSED
6/4/2019	Tecumseh and Journey Parkway	Unknown	Michele Loudenback	Sediment	CLOSED
6/4/2019	Crest on 24th NW	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/6/2019	Classen and Highway 9	Unknown	Michele Loudenback	Drainage	CLOSED
6/6/2019	Robinson & 12th NE	Nora Blakely	Michele Loudenback	Drainage	CLOSED
6/10/2019	1727 Marion	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/10/2019	Fountainview	Unknown	Stuart Shumate	Discharge	CLOSED
6/10/2019	Alcott Middle School	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/11/2019	Brookhaven	Unknown	Michele Loudenback	Swimming Pool Discharge	CLOSED
6/12/2019	Berry Rd., South of Lindsey	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
6/12/2019	N/A	Unknown	Michele Loudenback	Information	CLOSED
6/13/2019	Alcott Middle School	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/13/2019	800 Lexington	Unknown	Michele	Drainage	CLOSED
6/14/2019	901 Barbour Ave	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
6/17/2019	Pickard and Boyd	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/18/2019	Robinson & 12th NE	Unknown	Michele Loudenback	Drainage	CLOSED
6/20/2019	24th NW and Robinson	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/20/2019	North Base	Unknown	Michele Loudenback	Information	CLOSED
6/20/2019	N/A	Unknown	Michele Loudenback	Information	CLOSED
6/21/2019	N/A	Unknown	Michele Loudenback	Drainage	CLOSED
6/24/2019	3005 Trailridge	Unknown	Michele Loudenback	Illicit Discharge	CLOSED
6/24/2019	Carruth and McGee	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/25/2019	Caldwell Banker	Unknown	Michele Loudenback	Yard Waste	CLOSED
6/26/2019	N/A	Unknown	Michele Loudenback	Volunteer	CLOSED
6/27/2019	N/A	Unknown	Michele Loudenback	Information	CLOSED
6/28/2019	Flood And Daws	Unknown	Michele Loudenback	Yard Waste	CLOSED

6/28/2019	N/A	Unknown	Michele Loudenback	Permitting	CLOSED
6/28/2019	N/A	Unknown	Michele Loudenback	Information	CLOSED
6/28/2019	N/A	Unknown	Michele Loudenback	Permitting	CLOSED