# Stormwater Annual Report



City of Concord
Water Resources Department

# NPDES Permit Number NCS000423

Reporting Year: July 1, 2022 – June 30, 2023

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### Stormwater Annual Report Overview

The City of Concord is a federally designated National Pollutant Discharge Elimination System (NPDES) Phase II community and operates under the authority of the Stormwater Management Program which operates as a division of the Engineering Department. The North Carolina Division of Water Quality renewed NPDES Phase II Permit NCS000423 to the City of Concord February 20, 2017 – February 19, 2022. The City of Concord has not been issued a new Permit at this time. The Stormwater Annual Report is the City of Concord's program to comply with NDPES Permit NCS000423 authorization to discharge Stormwater from the Municipal Separate Storm Sewer System (MS4s) located within the City of Concord Jurisdictional Area.

### Status of Implementation

The City of Concord is pleased to report progress for compliance with requirements of NPDES Phase II permit in the following six minimum control measures in the plan:

- Public Education and Outreach
- Public Participation and Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Site Runoff Control
- Pollution Prevention and Good Housekeeping for Municipal Operations

On June 28, 2005 the City of Concord adopted Stormwater Ordinance No. 05-53 (Chapter 60), which details the stormwater utility control and management. Articles IV and V of the Stormwater Ordinance were adopted on December 13, 2007.

#### Water Quality

The City of Concord is delegated by the state to enforce the Stormwater and Illicit Discharge regulations within our jurisdictional area. The city has adopted and enforces a stormwater ordinance. (Chapter 60, Stormwater Utility Control and Management, of the Code of Ordinances) (Appendix J)

The City reviews and approves all development plans associated with grading, stormwater, and erosion control. For projects that cumulatively disturb more than one acre a formal plan is required. All formal plans are required to be prepared by a qualified registered NC professional engineer or landscape architect.

For projects that disturb less than an acre and are not part of a larger development are exempt from

### Stormwater Annual Report Overview

the stormwater ordinance. For all other projects, stormwater controls must be designed by a licensed professional and installed. The city requires 85% removal of Total Suspended Solids and also requires that the post construction discharge not exceed pre-development discharge for the 1-year and 10-year storm event. Additionally, Article 4 of the Technical Standards Manual requires that Class 1 streams have a minimum 50 ft undisturbed buffer and a 20 ft vegetated setback. Class 2 streams require an undisturbed buffer of 30 ft and a 10 ft vegetated setback.

#### **Stormwater Fund**

Budgeted Revenues	\$5,617,272.00
Rates and Charges	\$5,496,824.00
Permits and Fees	\$22,110.00
Miscellaneous	\$98,338.00
Stormwater Expenses	(\$6,701,469.00)
Stormwater	(\$6,701,469.00)
Other Financing Sources	(\$516,500.00)
Transfers Out	(\$516,500.00)
Retained Earnings	(\$1,004,274.00)

### Program Funding and Budget

### General

In accordance with the issued permit, the City of Concord shall maintain adequate funding and staffing to implement and manage the provisions of the SWMP and comply with the requirements of the NPDES MS4 Permit. The budget includes the permit administering and compliance fee, which is billed by the Division annually.

The annual program funding and budgeting of the City's Stormwater Section within the Water Resources Department is based on revenue projections from stormwater utility service charges/fees that are assessed to and collected from customers located within the existing Concord City limits.

### **Establishment of Stormwater Utility**

As noted in Section 60-20 of the City Code of Ordinances, the stormwater utility (enterprise fund) was established to support management programs in order to protect water quality by controlling the level of pollutants in and the quantity and flow of stormwater, as well as stormwater structures and natural stormwater drainage systems. In addition, the City manages a Capital Improvement Program (CIP) within the Stormwater Section of the Water Resources Department in an effort to plan for future projects as part of the City's stormwater management system.

#### Basis for Stormwater Utility Service Charges/Fees

As noted in Section 60-21 of the City Code of Ordinances, collected stormwater utility service charges/fees are solely used by the department for funding the operational costs, maintenance costs, management costs, indirect costs, capital improvements, debt principal and debt service payments, and establishment of a reserve fund for stormwater services. As noted in the Stormwater Services section of the City's FY 2020-2021 Fees, Rates and Charges Schedule, the current monthly stormwater

equivalent runoff unit (ERU) rate is \$5.16/ERU. An ERU is equal to 3,120 sq. ft. This particular rate is projected to be the same within the City's FY 2022-2023 Fees, Rates and Charges Schedule. Similarly, residential homes are charged as follows:

Single-Family Residential Lot Total Impervious Surfaces	Percentage of ERU (1 ERU = 3,120 sq. ft.)	Amount Added to Utility Bill
Small (401 to 1,899 sq. ft.)	0.6 (60%)	\$3.10
Medium (1,890 to 5,507 sq. ft.)	1.0 (100%)	\$5.16
Large (Greater than 5,507 sq. ft.)	1.8 (180%)	\$9.29

Table 1. Breakdown of the City of Concord stormwater residential home fee.

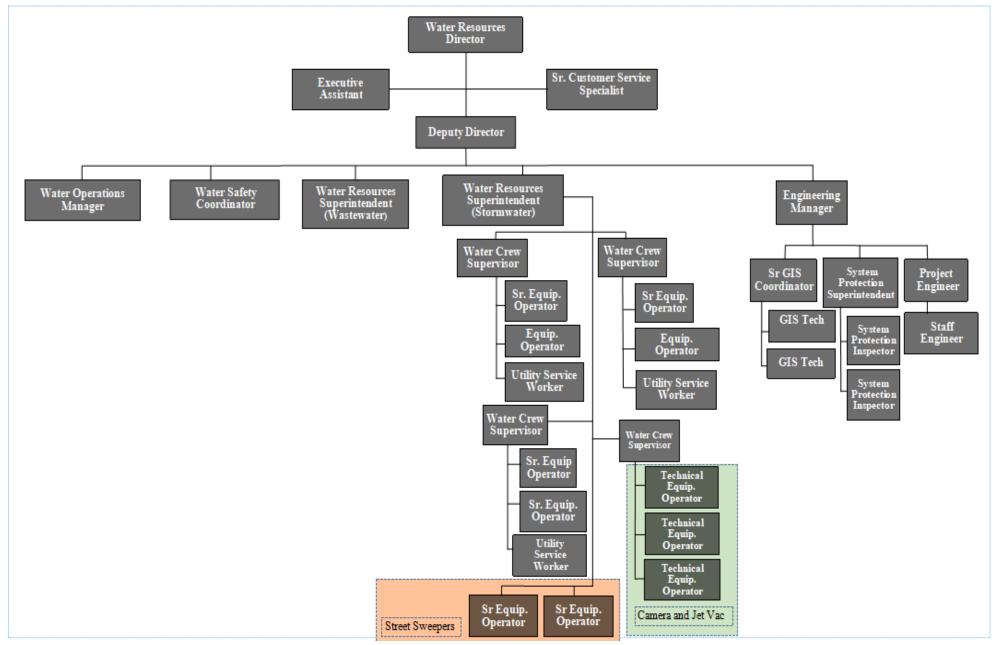
Currently, there is a total of 21.26 full-time equivalent (FTE) staff within the City's Stormwater Section for providing the following services:

- A. Program administration.
- B. Response to customer service inquiries related to drainage and stormwater quality.
- C. Drainage system maintenance within City maintained street right-of-ways.
- D. Compliance with the City's NPDES Phase II Stormwater Permit.
- E. Review of development plans to ensure compliance with City ordinances.
- F. Capital engineering and planning.
- G. Inspections and enforcement of stormwater infrastructure.

### Stormwater Section 5-Year Capital Improvements Program (CIP) Planning, Funding and Budgeting

The City of Concord's 5-Year Stormwater Section CIP planning documents are refined and include a list of future capital projects that have mainly been identified in a completed master plan report, long range and facility studies, or similar planning documents. These projects are included in the 5-Year CIP listing in order to provide satisfactory services to the community, as well as meet future needs, goals and policies of the City. Other planning documents within the CIP include project descriptions and corresponding justifications/impacts, status (i.e. new, revised, returning), priority numbers, as well as projected project costs for each of the planned phases (i.e. preliminary design, final design, environmental assessment, easement or right-of-way acquisition, construction). In addition, cost estimates and corresponding budgets are completed and/or revised on all 5-Year CIP projects on an annual basis, and include all costs associated with the engineering, environmental assessment, easement or right-of-way acquisition, and construction phases

### Organizational Chart



# Organization Chart

### **Summary of Responsible Parties**

SWMP Component	Responsible Position(s)	Staff Name	Department
Stormwater Program Administration	Water Resources Director	Jeff Corley	Water Resources
CIAINAD Managamant	Engineering Manager	Crystal Scheip	Water Resources
SWMP Management	Staff Engineer	Heather Freeman	Water Resources
Public Education &	Sustainability Coordinator	Juliann Chavez	City Mangers Office
Outreach	Engineering Manager	Crystal Scheip	Water Resources
	Staff Engineer	Heather Freeman	Water Resources
Public Involvement & Participation	Staff Engineer	Heather Freeman	Water Resources
Illicit Discharge Detection & Elimination	Staff Engineer	Heather Freeman	Water Resources
Construction Site	Construction Coordinator	Sean Radford	Engineering
Runoff Control	Construction Manager	<b>Gary Stansbury</b>	Engineering
Post-Construction Stormwater Management	Engineering Manager	Crystal Scheip	Water Resources
Pollution Prevention/Good	Staff Engineer	Heather Freeman	Water Resources
Housekeeping for Municipal Operations	Engineering Manager	Crystal Scheip	Water Resources
Municipal Facilities Operation & Maintenance Program	Engineering Manager	Crystal Scheip	Water Resources
Spill Response Program	Water Resources Director	Jeff Corley	Water Resources
MS4 Operation &	Water Resources Director	Jeff Corley	Water Resources
Maintenance Program	Water Resources Deputy Director	Kevin Plemmons	Water Resources

# Organization Chart

Municipal SCM	Engineering Manager	Crystal Scheip	Water Resources
Operation & Maintenance Program	Engineering Manager	Clint Shoaf	Engineering
Pesticide, Herbicide & Fertilizer Management Program	Buildings & Grounds Deputy Director	Joel White	Buildings & Grounds
Vehicle & Equipment Cleaning Program	Engineering Manager	Crystal Scheip	Water Resources
Pavement Management Program	Water Resources Deputy Director	Kevin Plemmons	Water Resources
Total Maximum Daily Load (TMDL) Requirements	Water Resources Director	Jeff Corley	Water Resources

# Capital Improvement Projects

### Equipment:

- Dump Truck - \$120,000

### Completed Construction Projects:

- Brookwood - \$450,000

### Proposed Construction Projects:

- Country Club - \$1,500,000

# Yearly Maintenance Activities

Maintenance activities include pipe repair, storm drain cleaning, grate replacement, catch basin repair, culvert repair, shoulder repair and ditching. These activities are conducted by the Stormwater crews.

Stormwater Work Orders FY 22-23		
Description	Number Completed	
Clean Inlet	1	
Ditch Cleaning	17	
Ditch General	28	
Inlet Maintenance	16	
Junction Box Install	3	
Jet Inlet	13	
Jet Vac	1	
Junction Box Maintenance	1	
Storm Main Install	1	
Storm Main Removal	0	
Storm Main Maintenance	3	
TV Pipe	4	
Total	88	

<b>Total Number</b>
138
145
6

Plan Reviews (7/1/22 – 6/30/23)	Total Number
Received	81
Reviewed	81
Approved	57

### **Objectives for Public Education and Outreach**

Distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

#### BMPs for Public Education and Outreach

The permittee shall implement the following BMPs to meet the objectives of the Public Education and Outreach Program and shall notify the Division prior to modification of any goals.

ВМР	Measurable Goals
a. Goals and Objectives	Defined goals and objectives of the Local
	Public Education and Outreach Program
	based on community wide issues

#### 22-23 Accomplishments

- The City of Concord reviewed the defined goals and objectives of the Public Education and Outreach program.
- Continued to develop public education and outreach opportunities for our target audiences.
- This year we participated in many programs throughout the city. We hosted programs at the library, various summer camps and at local schools.

- Continue to develop public education and outreach opportunities for our target audiences. Work to find areas of concern to focus our educational efforts.
- Stormwater staff will continue participating in existing educational events and partnering with community organizations in order to educate the public through the stormwater program.
   Examples include; civic education program with local schools, summer camps, our local library system.
- Review program goals and objectives, update as necessary.

ВМР	Measurable Goals
b. Describe target pollutants and/or stressors	The permittee shall maintain a description of the target pollutants and/or likely stressors and likely sources.

### **22-23 Accomplishments**

- Continue to monitor target pollutants in the MS4 and update table, as needed.

Target Pollutants/Stressors	Likely Sources
Litter	General Public, Businesses, Schools
Illicit Discharge	General Public, Businesses, Municipal Employees
Illegal Dumping	General Public, Businesses, Municipal Employees
Improper Disposal of Waste	General Public, Businesses, Municipal Employees
Pet Waste	General Public, Schools, Parks
Sediment	Contractors, Construction Erosion, Stream Bank Erosion
Car Washing	Businesses, General Public
Yard Waste	Residential, Commercial, Municipal Employees
Pesticides, Herbicides, and Fertilizers	General Public, Businesses, Schools, Municipal Employees

### 23-24 Objectives

- Continue to monitor target pollutants in the MS4 and update table above, as needed.

ВМР	Measurable Goals
c. Describe target audiences	The permittee shall maintain a description of the target audiences likely to have significant stormwater impacts and why they were selected.

### 22-23 Accomplishments

- Continued outreach to target audiences.

Target Audiences	Reason for Selection
General Public (Residents, Tourists, etc.)	Car washing, littering, owning pets, and other illicit
	discharges
Businesses (Commercial and Industrial)	General illicit discharges, illegal dumping, improper
	waste disposal, construction site runoff, improper fat,
	oil, and grease (FOG) disposal, car washing, etc.
Schools	Potential general litter issues and improper disposal
	of FOG
Municipal Employees	Municipal vehicle/equipment operation and cleaning,
	construction activities

### 23-24 Objectives

- Continue outreach to target audiences and update the above table list of target audiences, as needed.

ВМР	Measurable Goals
d. Describe residential and industrial/commercial issues	The permittee shall describe issues, such as pollutants, the likely sources of those pollutants, potential impacts, and the physical attributes of stormwater runoff, in their educational program

#### 22-23 Accomplishments

- The City updated its Stormwater Pollution brochure (Appendix E), available on the stormwater webpage. This brochure describes the previously identified target pollutants, likely sources of those pollutants, potential impacts, physical attributes of stormwater runoff, ways to prevent stormwater pollution, and stormwater pollution reporting procedures.
- The sustainability coordinator worked with other public affairs team to add posts on stormwater pollution prevention. Posts this year have discussed topics such as litter, illicit connections and illegal dumping, pet waste, yard waste, proper disposal of oil and household chemicals, and fertilizers. The City's also created videos celebrating World Water Day and National water quality month by discussion stormwater pollution prevention and the city's stormwater infrastructure. Posts on rain barrels and storm drain marking were also shared through the city's various channels. Additionally, information on stormwater pollution prevention has been added to our Spring and summer city circular magazine and in our biweekly citylink newsletter.

### 23-24 Objectives

- Continue to educate target audiences on the sources and impacts of target pollutants, as well
  as general stormwater pollution information, utilizing various platforms and medias, posting
  twice monthly.
- Continue to create informative advertisements concerning stormwater pollution for every quarterly City Circular magazine and biweekly citylink newsletter.
- Mail out stormwater pollution and IDDE brochures specifically for industrial and commercial facilities with backflow device reminders (Appendix G).

ВМР	Measurable Goals
e. Informational Website	The permittee shall promote and maintain an internet website designed to convey the program's message.

### **22-23 Accomplishments**

- The Stormwater Division continues to maintain a webpage dedicated to the Public Education & Outreach Program: <a href="https://concordnc.gov/Departments/Stormwater/NPDES-Phase-II/public-education-outreach">https://concordnc.gov/Departments/Stormwater/NPDES-Phase-II/public-education-outreach</a>. The webpage provides information about how the program is implemented throughout the City, including educational opportunities. The division also maintains a primary stormwater webpage: <a href="https://concordnc.gov/Departments/Stormwater">https://concordnc.gov/Departments/Stormwater</a>. The page includes information on the City's stormwater infrastructure, stormwater pollution, and reporting mechanisms. From this webpage, the public can access our Stormwater Pollution page which further details types of pollution, sources, and prevention methods:

  <a href="https://concordnc.gov/Departments/Stormwater/Stormwater-Pollution">https://concordnc.gov/Departments/Stormwater/Stormwater-Pollution</a>. All relevant webpages are advertised in the stormwater educational information created and provided by the City.
- A vinyl wrap promoting the message of "only rain down the storm drain", the stormwater hotline and website link was designed and installed on the City's streetsweeper vehicle.

- Continue to maintain and update our current webpages with all relevant program information.
- Add of links to educational materials from other sources, including the EPA and NCDEQ.

ВМР	Measurable Goals
f. Distribute public education materials to identified target audiences and user groups.	The permittee shall distribute stormwater educational material to appropriate target groups. Instead of developing its own material the permittee may rely on Public Education and Outreach materials supplied by state, and/or other entities through a cooperative agreement, as available, when implementing its own program.

### **22-23 Accomplishments**

- The City of Concord distributed educational material to identified target audiences through the following mediums:

Material	Number Distributed	Approximate Reach
Social Media Posts Related to Stormwater	36 posts	(Average) 2,500 per Facebook post 3,100 per Nextdoor post 400 per Instagram 400 per twitter
City Circular Magazine Advertisements*	2 advertisements	40,000 each quarter
Citylink newsletter articles Related to Stormwater	6 articles	3,000 per newsletter

<sup>\*</sup>Note: The City Circular is also available on the City's website for anyone to access at any time.

These materials covered topics such as, target pollutants, stormwater infrastructure, illicit discharges and illegal dumping, and more.

- Continue to distribute and track stormwater educational material to target audiences.
- Mail out stormwater pollution and IDDE brochures (Appendix G) specifically for industrial and commercial facilities with backflow device reminders.

ВМР	Measurable Goals
g. Maintain Hotline/Help line	The permittee shall promote and maintain a stormwater hotline/helpline for the purpose of public education and outreach

### 22-23 Accomplishments

- The City provides a stormwater hotline, 704-920-5555, for citizens to report illicit discharge, spills, erosion/sediment problems, and other stormwater related issues. This number is promoted on the city website, in the City Circular magazine, and on social media.
- A vinyl wrap promoting the message of "only rain down the storm drain", the stormwater hotline and website link was designed and installed on the City's streetsweeper vehicle.

### 23-24 Objectives

- Continue to maintain and promote the stormwater hotline/helpline.

ВМР	Measurable Goals
h. Implement a Public Education and Outreach Program	The permittee outreach program, including those elements implemented locally or through a cooperative agreement, shall include a combination of approaches designed to reach the target audiences. For each media, event or activity, including those implemented locally or through a cooperative agreement the permittee shall estimate and record the extent of exposure.

### 22-23 Accomplishments

- The City of Concord held five primary educational events for the 2022-2023 fiscal year. The City offered all typical events, such as the Journey Through Concord and Civic Education programs. We also expanded our student outreach to include a Grow Cabarrus event with all 6th graders within the county and stormwater outreach for all City of Concord Summer campers. Our Sustainability Coordinator facilitated the following educational events:

- A new opportunity was piloted this year. The storm drain art program was promoted and installed at JN Fries middle school. The winning artwork will be placed as a Mural near the storm drain at the school.

Educational Event	Number of Participants
Journey Through Concord	22
Concord 101	39
Civic Education	1,082
Grow Cabarrus	161
Concord Summer Camps	85

- Expand the stormwater art program to include all schools within the City of Concord. Include messaging and program options for classrooms as part of the art program.
- Work with three new partners on stormwater pollution prevention education and outreach.
   Partners can include local non-profits, schools, or other organizations.
- Continue to maintain and update website.
- Continue to document the extent of exposure to education materials and programs.
- Post at least twice monthly, on various social media platforms, information on stormwater pollution prevention.
- Add articles on stormwater pollution prevention into our quarterly city circular magazine and our biweekly city link newsletter.
- Evaluate and update the annual stormwater training videos for staff.

### Public Involvement and Participation

### **Objectives for Public Involvement and Participation**

Comply with State and Local public notice requirements when implementing a public involvement and participation program

#### **BMP's for Public Involvement and Participation**

The permittee shall implement the following BMP's to meet the objectives of the Public Involvement and Participation program and shall notify the Division prior to any modifications of any goals

ВМР	Measurable Goals
a. Volunteer community involvement	The permittee shall include and promote
program	volunteer opportunities designed to promote ongoing citizen participation

### 22-23 Accomplishments

- The City of Concord provides two stream-cleaning programs: Adopt-A-Stream and Clean-A-Creek. These programs encourage local groups to reduce the amount of trash and debris in City streams, helping improve water quality. Both opportunities are advertised on the City's stormwater webpage (<a href="https://concordnc.gov/Departments/Stormwater/Adopt-a-Stream">https://concordnc.gov/Departments/Stormwater/Adopt-a-Stream</a>) and annually in the City Circular magazine. There were 20 stream clean ups, 101 volunteers, 50 hours volunteered and 47 bags of trash.
- The City of Concord also offers a storm drain marking program. There were volunteers that marked 700 drains. This fiscal year, other volunteer opportunities such as a storm drain mural contest was promoted at a participating school. Mural will be installed at the storm drain at the school.
- Each year the City of Concord organizes the Litter Sweep event for all City coworkers. For the Spring 2023 Litter Sweep event, 265 City staff members collected a total of 240 bags of trash and 28 bags of recycling. This event is advertised to City staff through email, the City Circular magazine, and on the City's Intranet page.

- Continue to provide three City of Concord litter sweeps (fall/winter/spring)
- Create new opportunities for Concord residents to participate in litter and stream sweeps.
- Share on social media platforms opportunities to join an Adopt-A-Street, Adopt-A-Stream, Clean-A-Creek, or drain marking programs.

### Public Involvement and Participation

ВМР	Measurable Goals
b. Mechanism for Public involvement	The permittee shall provide and promote a mechanism for public involvement that provides for input on stormwater issues and the stormwater program.

### **22-23 Accomplishments**

- The City of Concord held Stormwater Management Advisory Committee (SMAC) meetings on March 7, 2022, October 3, 2022, June 5, 2023 and March 6, 2023. Minutes were kept for each meeting.

### 23-24 Objectives

- Continue to hold quarterly meetings to engage the public in addressing stormwater issues and regulations throughout the City.

ВМР	Measurable Goals
c. Hotline/Help line	The permittee shall promote and maintain a hotline/helpline for the purpose of public involvement and participation.

### **22-23 Accomplishments**

- The City provides a stormwater hotline, 704-920-5555, for citizens to ask about stormwater related issues. This number is promoted on the city website, in the City Circular magazine, and on social media.
- A vinyl wrap promoting the message of "only rain down the storm drain", the stormwater hotline and website link was designed and installed on the City's streetsweeper vehicle.

### 23-24 Objectives

- Continue to maintain and promote the stormwater hotline/helpline.

### **Objectives for Illicit Discharge Detection and Elimination**

- a. Implement and enforce a program to detect and eliminate illicit discharges into the MS4;
- Maintain a storm sewer system map, showing the location of major outfalls and the names and locations of waters of the United States that receive discharges from those outfalls;
- c. Prohibit, through ordinance, or other regulatory mechanism, non-stormwater discharges except as allowed in this permit and implement appropriate enforcement procedures and actions;
- d. Implement a plan to detect and address non-stormwater discharges, including illegal dumping into the MS4;
- e. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste; and
- f. Address the following categories of non-stormwater discharges or flows (i.e., illicit discharges) only if you identify them as significant contributors of pollutants to the MS4: waterline flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitat and wetlands, dechlorinated swimming pool discharges, and street wash water (discharges or flows from firefighting activities are excluded from the effective prohibition against non-stormwater and need only be addressed where they are identified as significant sources of pollutants to waters of the United States)

### **BMPs for Illicit Discharge Detection and Elimination**

The permittee shall implement the following BMPs to meet the objectives of the Illicit Discharge Detection and Elimination Program and shall notify the Division prior to modification of any goals.

ВМР	Measurable Goals
a. Maintain an Illicit Discharge Detection and Elimination Program	Maintain a written Illicit Discharge Detection and Elimination Program, including provisions for program assessment and evaluation and integrating program.

#### **22-23 Accomplishments**

- The City of Concord continued operation of the Illicit Discharge Detection and Elimination (IDDE) program. The Water Resources Department maintained the IDDE program by tracking investigations and corrections. Stormwater Staff has performed 15 investigations for 22-23.
- Finished the written document for the IDDE program, which will also establish provisions for program assessment and evaluation and integrating program.

### 23-24 Objectives

- Maintain follow ups for ongoing investigations with the current IDDE program (Appendix D)

ВМР	Measurable Goals
b. Maintain adequate legal authorities	The permittee shall maintain an IDDE ordinances or other regulatory mechanisms that provides the legal authority to prohibit illicit connections and discharges.

#### 22-23 Accomplishments

- The City of Concord maintained Chapter 60, Article IV of the City Code of Ordinances which provides the legal authority to prohibit illicit connections and discharges, as well as detailing enforcement actions.

#### 23-24 Objectives

- Continue to maintain the ordinance and update, as necessary.

ВМР	Measurable Goals
c. Maintain a Storm Sewer System Base Map of Major Outfalls	The permittee shall maintain a current map showing major outfalls and receiving waters.

### 22-23 Accomplishments

- The City maintained and updated maps of the stormwater system throughout the city in ArcGIS, a GIS based system. The maps are updated annually to show new storm drainage systems that have been installed. This mapping system shows locations of streams, rivers,

ponds, lakes, SCM's, storm drains, outfalls, and drainage networks.

### 23-24 Objectives

- Continue to maintain and update maps of the stormwater system in ArcGIS.
- Add flow direction of storm sewer system pipes to map

ВМР	Measurable Goals
d. Implement a program to detect dry weather flows	The permittee shall maintain a program for conducting dry weather flow field observations in accordance with written procedures.

### **22-23 Accomplishments**

- Staff completed inspections for 20% of all major outfalls.

### 23-24 Objectives

- Review and update GIS map of all major outfalls as needed.
- Continue to perform routine outfall inspections, in accordance with the written procedures.

ВМР	Measurable Goals
e. Investigate sources of identified illicit discharges.	The permittee shall maintain written procedures for conducting investigations of identified illicit discharges.

#### 22-23 Accomplishments

- The City maintained its system of investigating reported illicit discharges.
- Completed formal written standard operating procedure (SOP) for investigating, reporting, and documenting illegal dumping, illicit discharges and connections.

- Continue to administer the City's IDDE Program and review/update the plan annually.
- The Stormwater Division will continue to perform routine inspections of the storm sewer system.

ВМР	Measurable Goals
f. Track and document investigations of illicit discharges	For each case the permittee shall track and document 1) the date(s) the illicit discharge was observed; 2) the results of the investigation; 3) any follow-up of the investigation; and 4) the date the investigation was closed.

### 22-23 Accomplishments

- The City of Concord investigates all reported illicit discharges. Currently, the IDDE investigator completes an inspection form noting the results of the investigation and any follow-up actions. The Stormwater Division completed the creation of a new web-based investigation form that will include date(s) observed, investigation results, any follow-up actions taken, and the date the investigation was closed. This system will make tracking and documentation of all investigations more organized.

#### 23-24 Objectives

- Continue to track initial investigation and any follow up corrections to close out the issues of all illicit discharge investigations using the new web-based system.

ВМР	Measurable Goals
g. Provide Employee Training	The permittee shall implement and document a training program for appropriate municipal staff, who as part of their normal job responsibilities, may come into contact with or otherwise observe an illicit discharge or illicit connection.

#### 22-23 Accomplishments

 The City of Concord updated an illicit discharge training video that all appropriate municipal staff was required to view. The number of municipal employees that watched the training video this fiscal year was 1000 employees.

### 23-24 Objectives

- Continue to require IDDE training annually and ensure new staff are trained.

ВМР	Measurable Goals
h. Provide Public Education	The permittee shall inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

### **22-23 Accomplishments**

- The City's Sustainability Coordinator posted content about illicit discharges, illicit connections, and illegal dumping on the City's social media pages.

#### 23-24 Objectives

- The City plans to mailed out educational illicit discharge brochures for both industrial and commercial businesses. Update brochures, as needed (Appendix G).
- Continue posting on social media and advertising via the City Circular magazine to inform the public of the hazards associated with illicit discharges and improper disposal of waste.

ВМР	Measurable Goals
i. Provide a public reporting mechanism	The permittee shall promote, publicize, and facilitate a reporting mechanism for the public and staff to report illicit discharges and establish and implement citizen request response procedures.

#### 22-23 Accomplishments

- The City maintained a stormwater hotline, 704-920-5555, for citizens and staff to report concerns regarding illicit discharges and illegal dumping. This number is promoted on the city website, in the City Circular magazine, and on social media.
- A vinyl wrap was designed and installed on the second streetsweeper vehicle. It promotes the message of "only rain down the storm drain" while also advertising the illicit discharge reporting hotline and the City's stormwater webpage.

### 23-24 Objectives

- Continue to provide a hotline to report issues related to illicit discharges and illegal dumping.
- Complete and continue to implement written citizen request response procedures.

ВМР	Measurable Goals
j. Enforcement of the IDDE program	The permittee shall implement a mechanism to track the issuance of notices of violation and enforcement actions as administered by the permittee. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.

#### 22-23 Accomplishments

- The City of Concord created a web based IDDE program to track the issuance of NOVs and enforcement actions taken as a result of illicit discharge investigations. This program helps to identify chronic violators and track ongoing investigation and corrections that were made.

- Continue to update the online system for tracking illicit discharge investigations and use this
  mechanism to identify chronic violators and track ongoing investigation and corrections
  that were made.
- Continue to save all documentation related to IDDE investigations.

All construction site runoff items are handled by the North Carolina Department of Environmental Quality (NCDEQ). The City of Concord maintains a working relationship with State officials to easily communicate and resolve construction site runoff issues. The City also created an advertisement for the State's 1-800-STOPMUD hotline, which can be found on the City's stormwater webpage. City staff are directed to report any concerns regarding construction site runoff directly to the NCDEQ and/or contact the appropriate stormwater staff.

### **Objectives for Post-Construction Site Runoff Controls**

- a. Implement and enforce a program to address stormwater runoff from new and redevelopment projects, including public transportation maintained by the permittee, that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, which would discharge into the small MS4. The program shall ensure that controls are in place that would prevent or minimize water quality impacts. The program shall apply to private development sites and sites developed by the permittee, including public transportation maintained by the permittee.
- b. Implement strategies which include a combination of structural and/or non- structural best management practices (BMPs) appropriate for the community.
- c. Enforce an ordinance to address post-construction runoff from new and redevelopment projects.
- d. Ensure adequate long-term operation and maintenance of BMPs through an inspection and maintenance program.

#### **BMPs for Post-Construction Site Runoff Controls**

The permittee shall implement the following BMPs to meet the objectives of the Post-Construction Stormwater management program. To the extent there is any conflict between the permittee and post-construction ordinances adopted by the N.C. Division of Water Quality, the post-construction ordinances shall apply with regard to permit compliance.

ВМР	Measurable Goals	
a. Adequate legal authorities	Maintain through ordinance, or other regulatory mechanism, adequate legal authorities designed to meet the objectives of the Post-Construction Site Runoff Controls Stormwater Management program.  The permittee shall have the authority to review designs and proposals for new development and redevelopment to determine whether adequate stormwater control measures will be installed, implemented, and maintained.	
	The permittee shall have the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Stormwater Management Program.	
	The permittee shall have the authority to enter private property for the purpose of inspecting at reasonable times any facilities,	

equipment, practices, or operations related to stormwater discharges to determine whether there is compliance the Post-Construction Stormwater Management Program.

#### 22-23 Accomplishments

- The primary regulatory mechanism for the City of Concord's stormwater management program is Chapter 60 of the Concord Code of Ordinances (Stormwater Utility Control and Management) (Appendix J). Specifically, Article IV and Article V describe requirements for stormwater quality control and management, and any modification or addition to the MS4, respectively. These articles provide the City with the legal authority to operate a compliant Post-Construction Site Runoff Controls Management program. Part of this authority is the ability to review designs and proposals for new development and redevelopment projects to ensure proper management practices are used.
- Section 60-46 requires that property owners must be in compliance with the City's NPDES
  Permit and that the city manager or his/her designee shall not approve any post-construction
  stormwater management structures or practices that do not comply with permit
  requirements.
- Section 60-48(a) grants authorized municipal staff the ability to enter private property for the purposes of observation, inspection, sampling, monitoring, testing, surveying, and measuring compliance.
- The City of Concord is currently able to request stormwater plans, inspection reports, and other information deemed necessary to evaluate the efficacy of the SCM. The Stormwater Division began working on formally adding this verbiage to Chapter 60 of the Code of Ordinances.

### 23-24 Objectives

- Continue to maintain adequate legal authorities for the stormwater management program

ВМР	Measurable Goals
b. Strategies which include Stormwater	Strategies which include Stormwater Control
Control Measures (SCMs) appropriate	Measures (SCMs) appropriate for the MS4,
for the MS4	include, but are not limited to compliance
	with 15A NCAC 02H Section .1000 effectively
	meets the Post-construction Stormwater
	Runoff control requirements.

#### **22-23 Accomplishments**

The City of Concord requires that all projects that involve a structural stormwater SCM have an easement and Operation and Maintenance Agreement filed with the city and recorded in the Cabarrus County Register of Deeds office before a Certificate of Occupancy is granted. The agreement binds the owner and any future owners. The agreement requires the owner to maintain, repair and if necessary, reconstruct the structural SCM and shall state the terms, conditions, and schedule of maintenance for the structural SCM. The easement grants the city a right of entry in the event that the Stormwater Administrator has reason to believe that it has become necessary to inspect, monitor, maintain, repair or reconstruct the structural SCM.

### 23-24 Objectives

 Continue to require that all projects that involve a stormwater SCM have an easement and Operation and Maintenance Agreement filed with the city and recorded in the Cabarrus County Register of Deeds office before Certificate of Occupancy is granted.

	ВМР	Measurable Goals
c. Plan reviews		The permittee shall conduct site plan reviews of all new development and redeveloped sites that disturb greater than or equal to one acre (including sites that disturb less than one acre that are part of a larger common plan of development or sale). The site plan review shall address how the project applicant meets the performance standards and how the project will ensure long-term maintenance

#### **22-23 Accomplishments**

- The Stormwater ordinance provides the mechanism for the City of Concord to review plans. Currently, the Stormwater Division contracts the City's Engineering department to complete all official plan reviews.

### 23-24 Objectives

- Continue to enforce the stormwater ordinance and complete site plan reviews.

ВМР	Measurable Goals
d. Inventory of projects with post- construction structural stormwater control measures	The permittee shall maintain an inventory of projects with post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites, including both public and private sector sites located within the permittee's corporate limits that are covered by its post-construction ordinance requirements.

### **22-23 Accomplishments**

- Every SCM constructed within the City of Concord is required to have an easement and operation and maintenance agreement written that describes the location of the structure, list the owner, describes the structure proper, and describes the function and required maintenance. The owner of the SCM is required to have the structure inspected by a Certified Professional Engineer every year and provide the results of the inspection to the City of Concord Stormwater Administrator.
- The City of Concord audits at least 25% of all SCM's within the City limits that have been approved and certified. In FY23, 47% of all SCMs were inspected.

- Maintain and update the current inventory of projects with SCMs
- Audit at least 25% of all completed SCMs.

ВМР	Measurable Goals
e. Deed Restrictions and Protective Covenants or Recorded Operation and Maintenance Agreements	The permittee provides mechanism such as recorded deed restrictions and protective covenants or recorded operation and maintenance agreements that ensure development activities will maintain the project consistent with approved plans.

### **22-23 Accomplishments**

 The Operation and Maintenance Agreement is recorded with Cabarrus County Register of Deeds. The City also maintains a hard copy of the agreement and electronic listing of each SCM which included the location, owner and running list of inspection dates.

### 23-24 Objectives

- Continue to require a recorded Operation and Maintenance Agreement for SCMs.

ВМР	Measurable Goals
f. Provide a mechanism to require long-term operation and maintenance of Stormwater Control Measures (SCMs).	The permittee shall implement or require an operation and maintenance plan for the long-term operation of the SCMs required by the program. The operation and maintenance plan shall require the owner of each SCM to perform and maintain a record of annual inspections of each SCM. Annual inspection of permitted structural SCMs shall be performed by a qualified professional.

### 22-23 Accomplishments

- City of Concord ordinance requires that an annual inspection of permitted structural SCMs shall be performed by a qualified Professional Engineer and a copy sent to the city.

- Continue to require annual inspections of all SCM's operated in the city limits.
- Continue to complete internal inspections for 25% of all SCMs within city limits.

ВМР	Measurable Goals
g. Inspections	To ensure that all stormwater control measures are being maintained pursuant to its maintenance agreement, the permittee shall conduct and document inspections of each project site covered under performance standards, at least one time

during the permit term.
Before issuing a certificate of occupancy or temporary certificate of occupancy, the permittee shall conduct a post-construction inspection to verify that the permittee's performance standards have been met or a bond is in place to guarantee completion.
The permittee shall document and maintain records of inspection findings and enforcement actions and make them available for review by the permitting authority.

### **22-23 Accomplishments**

- To ensure compliance with maintenance agreements, the City performs annual inspections of 25% of all public and privately owned SCMs within the City's limits.
- Completed inspections on 47% of all SCMs.

### 23-24 Objectives

- Continue to annually complete internal inspections for at least 25% of all SCMs within city limits.

ВМР	Measurable Goals
h. Educational materials and training for developers	The permittee shall make available through paper or electronic means, ordinances, post-construction requirements, design standards checklist, and other materials appropriate for developers. New materials may be developed by the permittee, or the permittee may use materials adopted from other programs and adapted to the permittee's new development and redevelopment program.

### **22-23 Accomplishments**

Design requirements, technical standards, as-built information and checklists, SCM inspection

forms, and other materials for developers and contractors are available in electronic format on the City's stormwater webpage: <a href="https://concordnc.gov/Departments/Stormwater/Stormwater-Control-Measures">https://concordnc.gov/Departments/Stormwater/Stormwater-Control-Measures</a>. The City's Stormwater Ordinance is available online through Municode (<a href="https://library.municode.com/nc/concord/codes/code">https://library.municode.com/nc/concord/codes/code</a> of ordinances?nodeId=PTIICOOR CH60 STUTCOMA). All other resources are available upon request (Appendix J).

### 23-24 Objectives

- Continue to maintain the website and provide additional documents to developers.

ВМР	Measurable Goals
i. Enforcement	The permittee shall track all issuances of notices of violation and enforcement actions. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.

### 22-23 Accomplishments

- Copies of all issued NOVs and enforcement actions are saved in a separate folder for each year. Additionally, NOVs are tracked in the City's BMP Database using Microsoft Access.

### 23-24 Objectives

Continue to track the issuance of notices of violation and enforcement actions.

### Pollution Prevention and Good Housekeeping

### Objectives for Pollution Prevention and Good Housekeeping for Municipal Operations.

- a. Implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.
- b. Provide employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.

### BMPs for the Pollution Prevention and Good Housekeeping for Municipal Operations.

The permittee shall implement the following BMPs to meet the objectives of the Pollution Prevention and Good Housekeeping Program and shall notify the Division prior to modification of any goals.

ВМР	Measurable Goals
a. Inventory of municipally owned or operated facilities	The permittee shall maintain current inventory of facilities and operations owned and operated by the permittee with the potential for generating polluted stormwater runoff.

### **22-23 Accomplishments**

- The City created a system of inspecting and grading the site for exceptional cleanliness and if improvements need to be made (Appendix H). This is a GIS-based inventory that is updated as needed. Major Sites receive a Rain Drop Award for rating A (Appendix I).

### 23-24 Objectives

- Continue to monitor the facilities for cleanliness and improvements.

### Pollution Prevention and Good Housekeeping

ВМР	Measurable Goals
b. Operation and Maintenance (O&M) for municipally owned or operated facilities.	The permittee shall maintain and implement, evaluate annually, and update as necessary an Operation and Maintenance (O&M) program for municipally owned and operated facilities with the potential for generating polluted stormwater runoff. The O&M program shall specify the frequency of inspections and routine maintenance requirements.

### 22-23 Accomplishments

- Stormwater staff completed a written O&M plan for municipally owned and operated facilities. This plan details required maintenance for all facilities, inspection schedules, and responsibilities of each City department. Currently, stormwater staff are communicating with other departments to maintain their current operation and maintenance activities.

### 23-24 Objectives

- Finalized written O&M program for municipally owned and operated facilities
- Continue to maintain and inspect all municipal facilities with the potential for generating polluted stormwater runoff, according to schedule

ВМР	Measurable Goals
c. Spill Response Procedures for municipally owned and operated facilities	The permittee shall have written spill response procedures for municipal operations.

### **22-23 Accomplishment**

The City of Concord updated its written spill response procedures for all types of potential spills related to municipal operations. The Stormwater Division also began updating the Spill Prevention, Control, and Countermeasures (SPCC) Plan for the Alfred M. Brown Operations Center.

### 23-24 Objectives

- Continue to review and educate on obtaining updates in the spill response procedures annually.

- Ensure each facility has updated all materials in the spill kits onsite when needed.

ВМР	Measurable Goals
d. Streets, road, and public parking lot maintenance	The permittee shall evaluate existing and new BMPs annually that reduce polluted stormwater runoff from municipally-owned streets, roads, and public parking lots within their corporate limits. The permittee must evaluate the effectiveness of these BMPs based on cost and the estimated quantity of pollutants removed.

### 22-23 Accomplishments

The City of Concord continues to reduce polluted stormwater runoff from streets, road, and public parking lots within our corporate limits by street sweeping, regular yard waste collection, and annual loose-leaf collection. During this fiscal year, the street sweeper operators covered approximately 516 miles of curb and gutter. The department tracks the number of loads collected and subsequently disposed of at our operations center by our street sweepers, but a weight is not currently recorded. Street sweeping operations cost the City approximately \$27,516.98 over the last year, and this total includes the fuel and maintenance costs for both street sweeper vehicles. Approximately 8,624 tons of yard waste and seasonal leaves were collected throughout this fiscal year. Last fiscal year, the yard waste and leaf collection programs combined cost the City a total of \$2,846,865.

### 23-24 Objectives

- Maintain the street sweeping, yard waste, and loose-leaf collection programs.
- Continue to annually track and evaluate the effectiveness of each program based on cost and estimated quantity of pollutants removed.

ВМР	Measurable Goals						
e. Operation and Maintenance (O&M) for municipally- owned or maintained catch basins and conveyance systems	The permittee shall maintain and implement an O&M program for the stormwater sewer system including catch basins and conveyance systems that it owns and maintains.						

### **22-23 Accomplishments**

The Stormwater Division completed a written document that details the proactive and reactive O&M programs that are in place. Stormwater crews complete quarterly inspections of catch basins and inlets, and simultaneously conduct maintenance activities, as needed. Additionally, the City operates two full time street sweepers that follow mapped routes throughout the City. The division also operates a Jet-Vac and camera truck, both of which are used when necessary. The City's 24-hour customer care hotline and online reporting system are available for customers to submit concerns involving catch basins and conveyances.

### 23-24 Objectives

- Continue to inspect and maintain catch basins throughout the system
- Continue to perform street sweeping operations
- Finished written document for catch basins and conveyance system O&M

ВМР	Measurable Goals
f. Identify structural stormwater controls	The permittee shall maintain a current inventory of municipally-owned or operated structural stormwater controls installed for compliance with the permittee's post-construction ordinance.

### **22-23 Accomplishments**

 The City of Concord maintained its inventory of municipally-owned and operated stormwater control measures (SCM). Working drawings of each municipally-owned SCM as well as all inspections are filed in the City's BMP Database.

### 23-24 Objectives

- Continue to update and maintain the database.

ВМР	Measurable Goals
g. (O&M) for municipally- owned or maintained structural stormwater controls	The permittee shall maintain and implement an O&M program for municipally-owned or maintained structural stormwater controls installed for compliance with the permittee's post-construction ordinance.

The O&M program shall specify the frequency of inspections and routine maintenance requirements.
The permittee shall inspect and maintain municipally-
owned or maintained structural stormwater controls in
accordance with the schedule developed by permittee.
The permittee shall document inspections and
maintenance of all municipally-owned or maintained
structural stormwater controls.

### **22-23 Accomplishments**

 Annual inspections conducted by a licensed PE are required for all municipally-owned and maintained SCMs. Each municipal facility with an SCM on site is responsible for conducting regular maintenance and inspections of their respective SCM.

### 23-24 Objectives

- Facilities will continue to maintain and inspect their SCMs regularly
- Continue to require annual inspections conducted by a licensed PE

ВМР	Measurable Goals
h. Pesticide, Herbicide and Fertilizer Application Management	The permittee shall ensure municipal employees and contractors are properly trained and all permits, certifications, and other measures for applicators are followed.

### 22-23 Accomplishments

- The City of Concord ensures that appropriate municipal employees and contractors are properly trained on application of pesticide, herbicide, and fertilizer. There are currently 33 certified individuals employed by the City.

### 23-24 Objectives

- Departments will continue to ensure employees are trained and obtain the proper certification.
- The City will continue to assist employees in obtaining the proper training and certifications.

ВМР	Measurable Goals
i. Staff training	The permittee shall implement an employee training program for employees involved in implementing pollution prevention and good housekeeping practices

### **22-23 Accomplishments**

- Stormwater staff created a pollution prevention and good housekeeping training video for City employees. As of June 30, 2023, 1000 employees from 26 different departments have viewed this training video.

### 23-24 Objectives

- Continue to require new-hires and all municipal staff to annually watch the training video.
- Continue to track the number of employees trained.

ВМР	Measurable Goals						
j. Prevent or Minimize	The permittee shall describe measures that prevent						
Contamination of Stormwater	or minimize contamination of the stormwater runoff						
Runoff from all areas used for	from all areas used for vehicle and equipment						
Vehicle and Equipment	cleaning.						
Cleaning							

### **22-23 Accomplishments**

- The City has a wash bay with an oil water separator where vehicles and equipment are cleaned. An annual reminder that all vehicle washing is to occur at the wash bay is sent to all City staff. Fire stations also have drains in their wash bays that are connected to the sanitary sewer.

### 23-24 Objectives

- Continue to require vehicles and equipment be washed at the City's wash bay.
- Send an annual reminder to all City departments about washing equipment and vehicles only at the wash bay.

# TOTAL MAXIMUM DAILY LOADS (TMDL's)

NO TOTAL MAXIMUM DAILY LOADS HAVE BEEN ESTABLISHED IN THE MS4

### **APPENDIX A**

N

1 Home

Q Explore

Lists

Notifications

Messages

Bookmarks

2 Communities

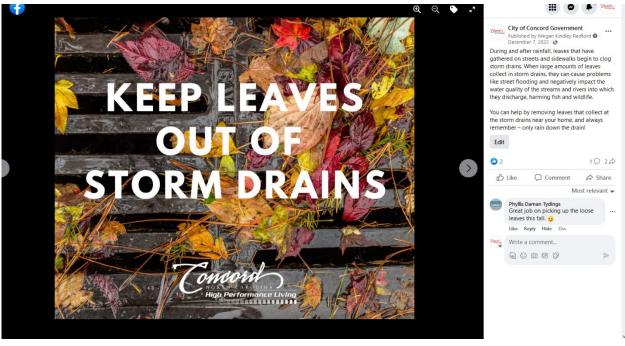
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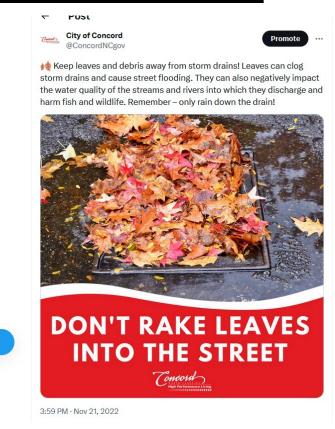
More

Profile

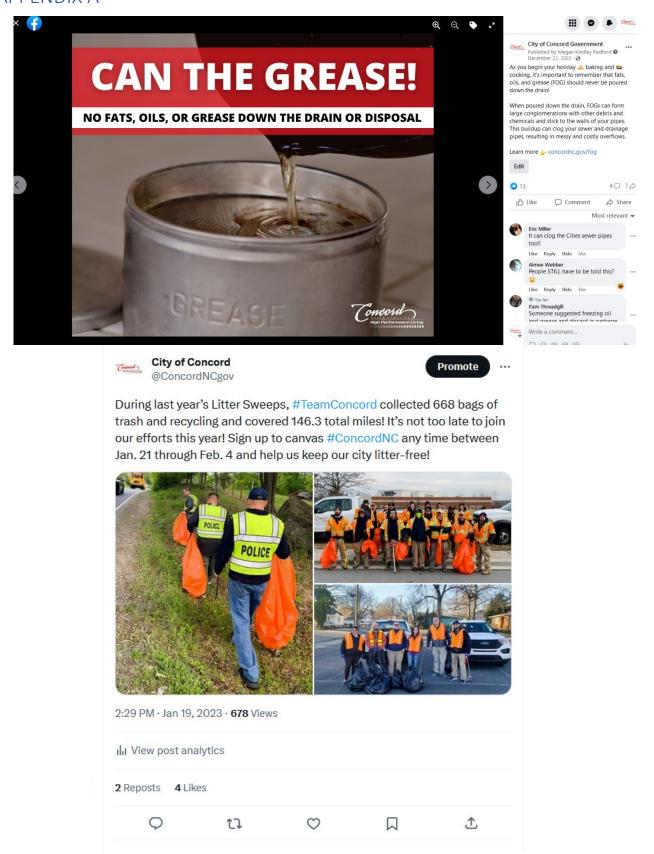
Post

### **Social Media Posts**

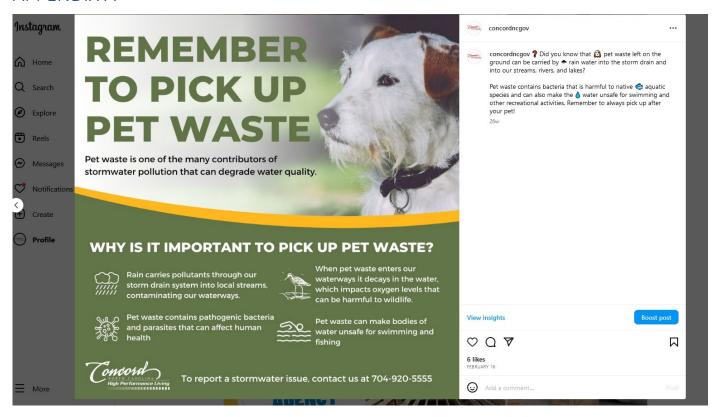


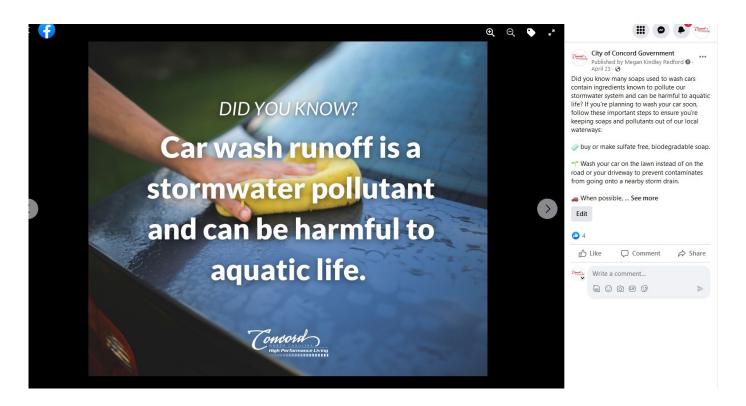


### **APPFNDIX A**



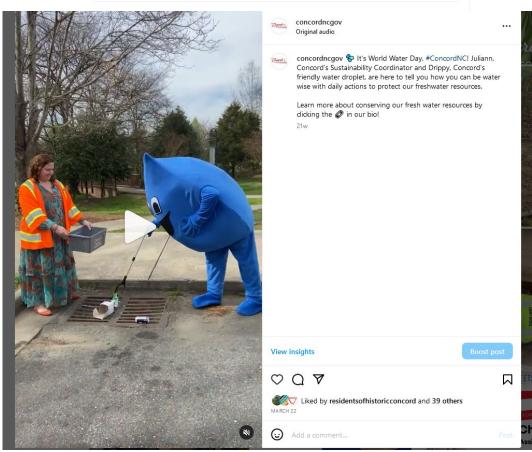
### APPFNDIX A





### **APPENDIX A**



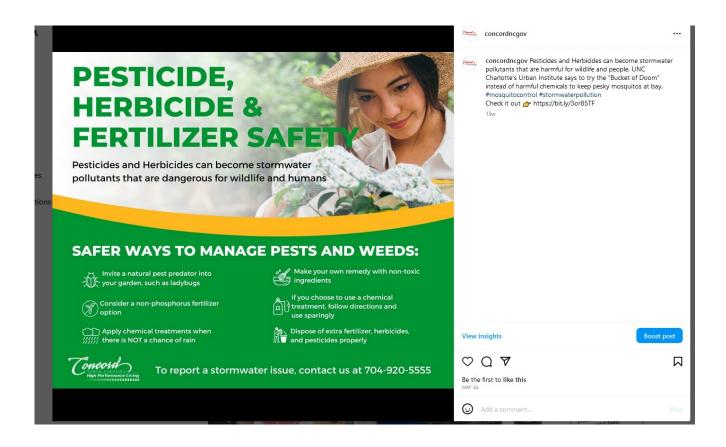


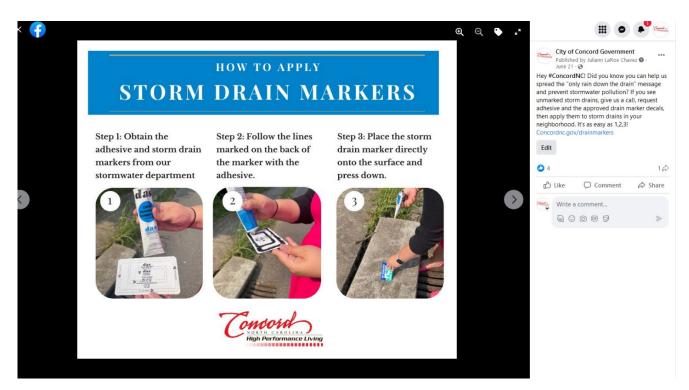
### **APPENDIX A**





### **APPFNDIX A**







Promote ·

Did you know rain barrels can protect local waterways? Rainwater that is collected is water that would usually end up in the storm drain. Stormwater collects pollution and that water is not treated before entering a stream. Order your rain barrel here — Concordnc.gov /rainbarrels

# WHY GET A RAIN BARREL?

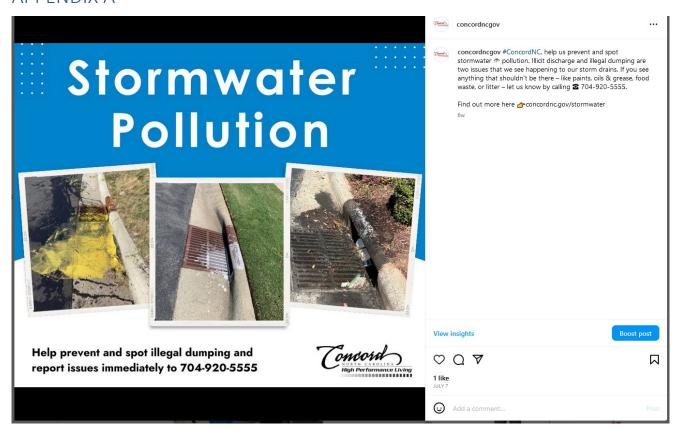
Water that is collected means less run-off. Less run-off means less chance for pollution to enter our waterways.





10:36 AM · Jun 7, 2023 · 690 Views

### **APPFNDIX A**





### **City Circular Advertisements**

Concord City Circular FALL 2022

# What NOT -to-Flush



# 16 Items You Should Never Flush Down the Toilet

Sewer backups and overflows can cause health hazards, damage home interiors, and harm our environment. Avoid costly repairs and save your home's plumbing and sewer system by learning what not to flush.

Whether you are connected to the city's sewer system or have a septic tank, as a general rule of thumb, flush only toilet paper and human waste.

But what about "flushable" or "biodegradable" wipes? Many items labeled as flushable or disposable can actually put your pipes and sewer system at risk. That's because these items do not degrade like tollet paper. They can clog pipes, tangle pumps, and cause messy sewer backups in your home or business, and even into our streets and waterways. Sewer backups are not only gross, they can be hazardous to your health and costly to clean up.

Below are 16 items you should NEVER flush down the toilet.

- 1. Wipes (cleaning, facial, baby, or personal care)
- 2. Paper Towels, Tissues, Napkins
- 3. Feminine products (pads, tampons, applicators)
- 4. Baby products (disposable diapers, wipes, nursing pads)
- 5. Hair
- 6. Dental floss
- 7. Cotton balls/swabs/pads
- 8. Band-aids and bandage wrappers
- 9. Condoms
- 10. Cigarette Butts
- 11. Cat Litter
- 12. Contact Lenses
- 13. Medications
- 14. Fats, Oils, and Grease from cooking
- 15. Automotive fluids (motor oils, transmission fluid, anti-freeze, etc)
- 16. Paint (including nail polish and nail polisher remover)

The toilet in your home or business should never be a replacement for the garbage can. The drains that connect your home to the main sewer line are only big enough to carry water, toilet paper, and human waste. Sewer pipes are often no wider than 4 inches.

So protect your plumbing and sewer system, and help protect our environment by following the guide above. And remember, when in doubt, throw it out! >>>

concordne.gov | 11



# APPENDIX C

# **Outreach Programs**

Stormwater art contest at JN Fries Middle School



# APPENDIX C



# APPENDIX C



# APPENDIX D

# **Example of Illicit Discharge Database**

Create II	llicit Discharge Ev	ent				
Event Name	Initial Description		Suspected Source	Date Reported  mm/dd/yyyy:	Date NOV Issued  mm/dd/yyyy	Calvaded H matery Find address or place
Address	ХСо	oordinate	Y Coordinate	Radius	Date Closed  mm/dd/yyyy	
Owner Information  Back	Create				mm/dd/yyyy 🗖	Concord  Control  And
						Concord  Rutherford Completery  Load Selected Point.  Caberrus County Government, mecking, State of North Carolina DOT, Ean, HERE, Garmin, Pow

### Stormwater Pollution Brochure (on Stormwater Web Page)

Stormwater is defined by the U.S. Environmental Protection Agency as:

Rainwater and melted snow that runs off streets, lawns, farms, and construction and industrial sites.

Stormwater flows over impervious surfaces (those that do not allow water to pass through), carrying pollution we leave behind to our lakes, rivers, creeks, streams, and ponds.







Along with the other common pollutants described here, our streams can be

- Illicit Discharges
   Any discharge to the storm sewer system that is not
- Illicit Connections
  - Any conveyance or connection to the storm sewer system
- Illegal Dumping

   The act of intentionally dumping waste into the storm



### TO REPORT POLLUTION,

**PLEASE CALL OUR** 

24 HOUR

**CUSTOMER CARE CENTER** 

704-920-5555

City of Concord Stormwater Services Department 704-920-5360

### www.concordnc.gov

Brown Operations Center 635 Alfred Brown Jr Court SW Concord, NC 28025

# Stormwater **Pollution**



### Did you know...

Our storm drains lead directly into waters we use for swimming, fishing and drinking?

Learn how you can help keep our waterways clean!

City of Concord Stormwater Services Department 704-920-5360

www.concordnc.gov

### Sediment

Sediment is the #1 water



Effects:

- Clouds water, blocking sunlight needed by plants & animals.
- Impairs feeding, vision, and breathing capabilities of animals
- Falls to the bottom, upsetting the fragile habitat and fish spawning area and reducing channel flow capacity.

### Oil & Grease

Generated from kitchens, machinery and vehicles & carried by stormwater when disposed of improperty.

- Block sunlight and decreases oxygen needed by underwater plants & animals
- Damage bottom habitat by clinging to dirt
- particles and settling on the bottom.

   Can reduce storm drainage system capacity.

### Yard Waste

Enters surface waters when leaves and grass clippings make their way onto paved Effects:



- Carries applied fertilizers, herbicides, and pesticides which reduce water quality.
- Like other debris, blocks storm drains, grates, or otherwise clogs the storm drainage system leading to reduced capacity, standing water, and

### Ways You Can Help...

- grease. They should <u>NOT</u> enter the sanitary <u>OR</u> storm sewer systems! Wash vehicles & machinery over the
- Use only *enough* fertilizer and leave grass clippings to decompose naturally on the lawn. This keeps



- Recycle or properly dispose of chemicals and automobile fluids!
- Give your lawn or garden just enough water and/or install a rain barrel to create less runoff <u>and</u> conserve water
- machine, sinks, and showers are piped to
- determine how much and which type of fertilizer is best for your lawn.

### Pesticides, Herbicides, & **Fertilizers**

Plants can only use so much! Leftovers are carried away by stormwater, and often end up in bodies of water, increasing levels of nitrates and phosphates

- Upset natural nutrient balances.
- Increase algae growth in surface waters Decrease oxygen levels in water, often killing
- aquatic plants and animals.

### Machine/Vehicle Fluids & Other Chemicals



Careless use and disposal of chemicals is a dange to all living things. Product of household appliance leaks, improper plumbing, washing cars over paved areas, and improper use and disposal.

- Kill and/or disrupt bodily and reproductive functions of plants and animals
- Coat gills and suffocate fish & other aquatic

### Pet Waste

Contains dangerous bacteria and high levels of nitrates and phosphates.



### Effects:

- Increases algae growth and decreases oxyger levels in aquatic habitats, harming plants and animals

-Increases bacteria (E. coti) levels in water, making fishing and swimming dangerous.

### **Illicit Discharge Related Code of Ordinances**

### Sec. 60-47. - Non-stormwater discharge controls.

- (a) *Illicit discharges*. No person shall cause the commencement, conduct, or continuance of any nonstormwater discharge to the stormwater conveyance system except as provided below.
  - (1) Nonstormwater discharges associated with the following activities are allowed:
    - a. Filter backwash and draining associated with raw water intake screening and filtering devices:
    - b. Potable water line flushing and hydrostatic testing water associated with utility operations;
    - c. Flushing and cleaning of stormwater conveyances with unmodified potable water;
    - d. Uncontaminated pumped groundwater and other discharges from potable water sources such as water line leaks, draining for pipes for repairs, and emptying of potable water storage tanks;
    - e. Landscape irrigation and lawn watering water;
    - f. Diverted stream flows;
    - g. Uncontaminated rising groundwater;
    - h. Groundwater infiltration to the storm drain system;
    - i. Uncontaminated groundwater from foundation and footing drains;
    - j. Uncontaminated groundwater from crawl space pumps;
    - k. Residential or commercial air conditioning condensation;
    - I. Uncontaminated water from roof drains;
    - m. Wash water from the cleaning of the exterior of buildings, including gutters, provided that the discharge does not pose an environmental or health threat;
    - n. Uncontaminated groundwater from springs;
    - o. Individual residential and occasional non-commercial car washing;
    - p. Water from riparian habitats and wetlands;
    - q. Discharges from the pumping or draining of natural watercourses or waterbodies;
    - r. Filter backwash and draining associated with swimming pools provided that water quality is not significantly impacted;
    - s. Street wash water;
    - t. Flows from firefighting;
    - u. Discharges associated with emergency removal and treatment activities, for hazardous materials, authorized by the federal, state, or local government on-scene coordinator; and
    - v. Other non-stormwater discharges for which a valid NPDES discharge permit, waiver, or waste discharge order has been approved and issued by the State of North Carolina under the authority of the Federal Environmental Protection Agency, provided that:
      - 1. The discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations;

### APPFNDIX F

- 2. Written notification of such permitted discharge has been filed with the stormwater administrator, in a form acceptable to the stormwater administrator; and
- 3. Discharges to the municipal separate storm sewer system have been authorized by the stormwater administrator.
- (2) Prohibited substances include, but are not limited to:
  - a. Oil and grease of petroleum or synthetic hydrocarbon origin;
  - b. Fats, oils, and grease of plant or animal origin;
  - c. Anti-freeze, parts cleaner, and other motor equipment fluids;
  - d. Chemicals, paints, pesticides, and other household hazardous wastes;
  - e. Animal waste, gray water and waste water from RV's and travel trailers;
  - f. Washdown water from concrete trucks, and floor mop water;
  - g. Garbage, litter, yard waste, and any other solid waste materials; and
  - h. Contaminated washdown or drainage from dumpster drains.
- (3) With written concurrence of the North Carolina Department of Environment and Natural Resources, the city may exempt in writing other non-stormwater discharges, which are not a source of pollutants to the storm water conveyance system or waters of the state.
- (b) Illicit connections. Note: This regulation first became effective on December 13, 2007.
  - (1) The construction, use, maintenance, or continued existence of illicit connections to the storm drain system is prohibited. Prohibited connections include, but are not limited to:
    - a. Floor drains,
    - b. Wastewater from washing machines,
    - c. Wastewater from sanitary sewers,
    - d. Wash water from commercial vehicle washing or steam cleaning, and
    - e. Wastewater from septic systems.
  - (2) This prohibition expressly includes, without limitation, illicit connections made prior to the adoption of this provision or any other ordinance prohibiting such connections, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. The property owner or the person using said connection shall remove the connection within one year following the effective date of this regulation; provided that the grace period shall not apply to connections which may result in the discharge of hazardous materials or other discharges which pose an immediate threat to health and safety, or are likely to result in immediate injury and harm to real or personal property, natural resources, wildlife, or habitat.
  - (3) Where it is determined that said connection may result in the discharge of hazardous materials or may pose an immediate threat to health and safety, or is likely to result in immediate injury and harm to real or personal property, natural resources, wildlife, or habitat; or was made in violation of any

### APPENDIX F

applicable regulation or ordinance, the city manager or his designee shall designate the time within which the connection shall be removed. In setting the time limit for compliance, the city shall take into consideration:

- a. The quantity and complexity of the work;
- b. The consequences of delay;
- c. The potential harm to the environment, to the public health, and to public and private property; and
- d. The cost of remedying the damage.
- (c) Waste disposal. No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, left, or maintained, in or upon any public or private property, driveway, parking area, street, alley, sidewalk, component of the storm drain system, or waters of the state, any refuse, rubbish, garbage, litter, or other discarded or abandoned objects, articles, and accumulations, so that the same may cause or contribute to pollution. Wastes deposited in streets in proper waste receptacles for the purposes of collection are exempted from this prohibition.
- (d) Discharges in violation of industrial or construction activity NPDES stormwater discharge permit. Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the city prior to or as a condition of a subdivision map, site plan, building permit, or development or improvement plan; upon inspection of the facility; during any enforcement proceeding or action; or for any other reasonable cause.
- (e) *Spills*. Spills or leaks of polluting substances discharged to, or having the potential to be indirectly transported to the stormwater conveyance system, shall be contained, controlled, collected, and removed promptly. All affected areas shall be restored to their preexisting condition. Persons associated with the spill or leak shall immediately notify the City of Concord Fire Chief or his designee of all spills or leaks of polluting substances. Notification shall not relieve any person of any expenses related to the restoration, loss, damage, or any other liability which may be incurred as a result of said spill or leak, nor shall such notification relieve any person from other liability which may be imposed by state or other law.

(Ord. No. 07-108, § 1, 12-13-2007)

### Sec. 60-48. - Enforcement of stormwater control and management.

(a) Authority to enter. Any authorized city personnel shall be permitted to enter upon public or private property for the purposes of observation, inspection, sampling, monitoring, testing, surveying, and measuring compliance. Should the owner or occupant of any property refuse to permit such reasonable access, the city manager or his designee shall proceed to obtain an administrative search warrant pursuant to G.S. § 15-27.2 or

### APPFNDIX F

its successor. No person shall obstruct, hamper or interfere with any such representative while carrying out his official duties.

- (b) *Civil penalties*. Civil penalties may be assessed simultaneously for each kind of violation: discharge, connection, improper BMP, maintenance or other violation.
  - (1) *Illicit discharges*. Any designer, engineer, contractor, agent, or any other person who allows, acts in concert, participates, directs, or assists directly or indirectly in the creation of a violation of this chapter shall be subject to civil penalties as follows:
    - a. For first time offenders, if the quantity of the discharge is equal to or less than five gallons and consists of domestic or household products in quantities considered ordinary for household purposes, said person shall be assessed a civil penalty not to exceed \$100.00per violation or per day for any continuing violation, and if the quantity of the discharge is greater than five gallons or contains non-domestic substances, including but not limited to process waste water, or if said person cannot provide clear and convincing evidence of the volume and nature of the substance discharged, said person shall be assessed a civil penalty not to exceed \$1,000.00 per violation or per day for any continuing violation.
    - b. For repeat offenders, the amount of the penalty shall be at least double the amount assessed for the previous penalty, not to exceed \$10,000.00 per violation or per day for any continuing violation.
    - c. In determining the amount of the penalty, the city manager or his designee shall consider:
      - 1. The degree and extent of harm to the environment, the public health, and public and private property;
      - 2. The cost of remedying the damage;
      - 3. The duration of the violation;
      - 4. Whether the violation was willful;
      - 5. The prior record of the person responsible for the violation in complying or failing to comply with this chapter;
      - 6. The costs of enforcement to the public; and
      - 7. The amount of money saved by the violator through his, her, or its noncompliance.
  - (2) *Illicit connections*. Any person found with an illicit connection in violation of this chapter and any designer, engineer, contractor, agent, or any other person who allows, acts in concert, participates, directs, or assists directly or indirectly in the establishment of an illicit connection in violation of this chapter, shall be subject to civil penalties as follows:
    - a. First time offenders shall be subject to a civil penalty not to exceed \$500.00 per day of continuing violation.
    - b. Repeat offenders shall be subject to a civil penalty not to exceed \$1,000.00 per day of continuing violation.
    - c. In determining the amount of the penalty, the city manager or his designee shall consider:
      - 1. The degree and extent of harm to the environment, the public health, and public and private property;

### APPFNDIX F

- 2. The cost of remedying the damage;
- 3. The duration of the violation;
- 4. Whether the violation was willful;
- 5. The prior record of the person responsible for the violation in complying or failing to comply with this chapter;
- 6. The costs of enforcement to the public; and
- 7. The amount of money saved by the violator through his, her, or its noncompliance.
- d. Procedures for assessing penalties pursuant to illicit connections. Said penalties shall be assessed by the city manager or his designee. No penalty shall be assessed until the person alleged to be in violation is served written notice of the violation by registered mail, certified mail-return receipt requested, or personal service. Refusal to accept the notice shall not relieve the violator of the obligation to pay the penalty. The notice shall describe the violation with particularity and specify the measures needed to come into compliance. The notice shall designate the time within which such measures must be completed. In setting the time limit for compliance, the city shall take into consideration:
  - 1. The quantity and complexity of the work;
  - 2. The consequences of delay;
  - 3. The potential harm to the environment, the public health, and public and private property; and
  - 4. The cost of remedying the damage.

The notice shall warn that failure to correct the violation within the specified time period will result in the assessment of a civil penalty and/or other enforcement action. If after the allotted time period has expired, and the violation has not been corrected, the penalty shall be assessed from the date of receipt of notice of violation and each day of continuing violation thereafter shall constitute a separate violation under this section.

(Ord. No. 07-108, § 1, 12-13-2007)

### Illicit Discharges, Illicit Connections, and Illegal Dumping Brochure

The City of Concord is an MS4... What Does That Mean?

MS4 stands for Municipal Separate Storm Sewer System. The EPA defines an MS4 as:

- a conveyance or system of conveyances that is:
- owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.,
- designed or used to collect or convey stormwater (e.g., storm drains, pipes, ditches),
- ✓ not a combined sewer, and
- not part of a sewage treatment plant, or publicly owned treatment works (POTW).

As an MS4, the City of Concord is required to follow certain rules to help identify, remediate, and prevent stormwater pollution.





TO REPORT AN ILLICIT DISCHARGE,

**PLEASE CALL OUR** 

24 HOUR

**CUSTOMER CARE CENTER** 

704-920-5555

City of Concord Stormwater Services Department 704-920-5360 www.concordnc.gov

Brown Operations Center 635 Alfred Brown Jr Court SW Concord, NC 28025

# Illicit Discharges, Illicit Connections, & Illegal Dumping

Where do they come from?





What do they look like?



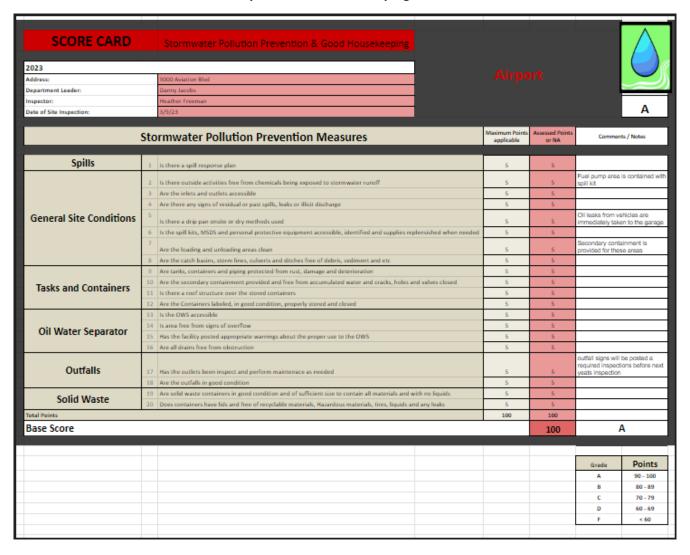
And how can you stop them?

# What Are They? Illicit Discharge: Any discharge to an MS4 that is not composed entirely of stormwater Illicit Connection: Any unapproved drain or conveyance which allows a non-stormwater discharge to flow into the storm drainage system Illegal Dumping: The intentional dumping of any unauthorized substance or item into the storm drainage system



### APPFNDIX H

### **Example of Good Housekeeping Scorecard**



# Major Housekeeping Scoring Results

Facility	2023 Score
Brown Operations Center	87
Airport	100
Hillgrove WTP	100
Coddle Creek WTP	96
City Electric building	96
Fire Station 9	99

Grade	Points
Α	90-100
В	80-89
С	70-79
D	60-69
F	<60

# Minor Housekeeping Scoring results

### Parks and Rec Sites

Inspected By:	: H.	FREEMAN																	
Parks and Rec	c Sites				Bark Park	Beverly Hills Park	Dorton Park	Gibson Field	J. W. (Mickey) McGee Park	Hartsell Recreation Center	Les Meyers Park	David W. Phillips Activity Center	Marvin Caldwell Park	Concord Parks & Reccreation	WW Flowe	Academy Rec Center	Logan Muiltiple Purpose Center	Logan Family Medicine	Webb Fiel
Address					8955 Weddington Rd	631 Miramar St	5790 Poplar Tent Rd	265 Misenheimer Dr	219 Corban Ave SE	60 Hartsell School Rd	338 Lawndale Ave		362 Georgia St	183 Academy Ave	99 Central Heights Dr	147 Academy Ave	184 Booker St NW		165 Academ Ave
Date of inspec	ction:		Year:	2022	7/21/22	7/21/22	7/21/22	9/1/22	7/21/22	9/1/22	7/21/22	11/3/22	9/1/22	7/21/22	11/3/22	7/21/22	11/3/22	11/3/22	7/21/22
	ystem (na, 1, 2, 3,																		
	dition of catch basin			features	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	aves, debris, & clog		age system		ű	<u> </u>							Ů						
	ement (na, 1, 2, 3,																		
1 Litter, trash and other waste materials throughout the site										_	_		_		_				5
Dumpster lids are closed and drain plugs are in place, not overflowing Condition of pet waste receptacles				5	5	4	5	5	5	5	5	5	5 5	5	4	5	5	5	
	andscaping (na, 1														T				
2 Excessive use	ndscaping material,	stabilization an	a erosion		2	5	5	5	2	5	2	5	5	5	4	3	5	5	5
	I Hardscapes (na.1	1 2 3 4 or 5\																	
	dition - deteriorating		a to finos																
2 Accumulation o		and contribution	ig to lines		5	5	5	5	5	5	5	5	5	5	5	5	5	5	2
3 Gravel condition						ا ا			•										
	of liquids & mater	ials outside (n	a. 1. 2. 3. 4.	or 5)															
	of spills, drips, leaks			0.07															
2 Is anything being	ng washed down ou	utside (mops, ve	ehicles, etc.)	)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3 Storage area is	s secured to preven	t unauthorized e	entrances.																4
					4.4	5	4.8	5	4.4	5	4.4	5	5	5	4.8	4.4	5	5	4.4
Priority					Good	Excellent	Good	Excellent	Good	Excellent	Good	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent	Good
Minor Facility Ratio	ing scale:																		
1 Poor																			
2 Needs Improve	ement																		
3 Satisfactory																			
4 Good																			
5 Excellent																			

# Water Tanks and Water Pump Stations

Inspected By:	H. FREEMAN																
Vater Tanks			Downtown Water Tank	Hwy 29 Water Tank	Hwy 73 Water Tank	Midland Water Tank	Rockhill Church Water Tank	Speedway Water Tank	Tood Newell Water Tank	Mount Pleasant Water Pump Station	Hwy 73 Water Pump Station	Corban Water Pump Station		Rocky River Water Pump Station		Lake Concord Pump Station	Lake Fishe Pump Station
Address			29 Cabarrus Ave	283 Concord Pkwy	3591 NC-73	175 NC-24	395 Stagecoach Rd	5007 Concord Pkwy	540 Newell St	25 N Main Street	497 NC Hwy 73 E	380 Corban Ave SW	8820 US Hwy 601 S	7038 Rocky River Road	3645 Rock Hill Church Road		5098 Lake Fisher Road
Date of inspection	n:	Year: 20	23 1/19/23	1/23/23	1/30/23	1/27/23	3/8/23	1/23/23	2/15/23	5/18/23	5/18/23	5/18/23	5/18/23	5/18/23	5/18/23	5/18/23	5/18/23
A. Stormwater Syste	em (na, 1, 2, 3, 4																
	on of catch basins, culverts & others, debris, & clogs in storm draina		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3. Waste Manageme	nt (na, 1, 2, 3, 4, or 5)																
Litter, trash and o	other waste materials throughout t	he site	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
. Erosion and Land	scaping (na, 1, 2, 3, 4, or 5)																
Condition of land Excessive use of	scaping material, stabilization and herbicides	l erosion	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
). Pavement and Ha	rdscapes (na, 1, 2, 3, 4, or 5)																
_	Pavement condition - deteriorating and contributing to fines Accumulation of sediment in lot		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Gravel condition																	
. Storage/spills of I	iquids & materials outside (na,	, 2, 3, 4, or 5)															
Any evidence of	spills, drips, leaks, or illicit dischar	ges.	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Priority			Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Minor Facility Rating	scale:												L .				
1 Poor																	
2 Needs Improvem	ent																
3 Satisfactory																	
4 Good																	
5 Excellent																	

## SS Pumps Stations

Inspected By:	H. FREEMAN																										
							Unaccessible											Unaccessible					Unaccessible				
Pump Stations			Midland Pump Station	Bethel School Pump Station	Cedarville Pump Station	Mills #17 Pump Station	The Mills at Rocky River Pump Station	Racoon Hollow Pump Station	Old Farm Pump Station	Zachary Farms Pump Station	Pleasant Oaks Pump Station	Kay Place Pump Station	Cabarrus Executive Park Pump Station	Ayers Commons Pump Station	Crossbow Circle Pump Station	Roberta Woods Pump Station	Mistletoe Ridge Pump Station	Westgate Pump Station	Laurel Park Pump Station	Province Greene Pump Station	Ruben Linker Road Pump Station	Hudspeth #1 Pump Station	Hudspeth #2 Pump Station	Shelton Road Pump Station	Popular Point #2 Pump Station	Union Cemetery Road Sewer Pump Station	Rock Hi Pump Station
Address			11801 US HWY 601 S	2621 Midland Road	10883 Sparkle Creek Drive	2304 Drake Mill Lane SW	6498 Zion Church Road	3547 NC HWY 49 N	1916 Old Farm Road SE	1079 Crestmont Drive	2480 Pleasant Hill Drive SE	618 Kay Place SE	303 Executive Park Drive NE	270 Morrow Court NE	1208 Crossbow Circle	3297 Westridge Lane SW	1406 Mistletoe Ridge Place NW	1698 David Fudge Place NW	2594 Sunberry Lane NW	575 Weyburn Drive NW	7587 Ruben Linker Road NW	7020 Hudspeth Road	6415 Hudspeth Road	1120 Shelton Road NW	95 Poplar Woods Drive	270 Union Cemetery Rd SW	3645 Roo d Hill Churc Road
Date of inspection:	Year:	2023	1/27/23	1/27/23	1/27/23	1/27/23	5/12/23	1/30/23	1/30/23	1/30/23	1/30/23	2/15/23	4/10/23	4/10/23	4/5/23	4/5/23	5/2/23	5/12/23	1/27/23	4/5/23	3/9/23	4/20/23	5/12/23	4/5/23	3/9/23	4/5/23	4/20/2
A. Stormwater System (na, 1, 2	3, 4, or 5)																										
_	pasins, culverts & other drainage feature	25	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5
	clogs in storm drainage system		•	ŭ	, in	J	ŭ	,	Ů	ľ	, i	, i	ŭ	ŭ	ľ	, and		, ,	ŭ	J	Ů	,	Ů	•	7	Ů	
3. Waste Management (na, 1, 2,																											
Litter, trash and other waste			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Erosion and Landscaping (r																											
	erial, stabilization and erosion		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5	5
Excessive use of herbicides			Ť	Ť	Ť	, i	·	, i	·	•	Ť	Ť	·	, i	•			, i	•		·		·	•		•	
). Pavement and Hardscapes (																											
Pavement condition - deterior																											
Accumulation of sediment in	lot		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Gravel condition																											
	aterials outside (na,1, 2, 3, 4, or 5)																										
Any evidence of spills, drips,	leaks, or illicit discharges.		5	5	5	5	5	5	5	5	5	5	5		5	5	5	5	5	5	5	5	5	5	5	5	5
			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4.4	5	5
Priority			Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Exceller
linor Facility Rating scale:																											
1 Poor																											
2 Needs Improvement																											
3 Satisfactory																											
4 Good																											
5 Excellent																											

### **Electric Sub Stations**

	Inspected By:		H. FREEMAN					
	mspecied by.		H. I KELWAN					
Ele	ctric Sub Stat	ions				Electric Substation	Electric Substation	Electric Substation
Add	dress					3595 NC-73	1920 Heglar	1165 Warren Coleman
Dat	e of inspectio	n:		Year:	2023	1/30/23	1/30/23	2/15/23
A. S	tormwater Syste	m (na, 1, 2, 3, 4	or 5)					
1	Structural condit	ion of catch basi	5	5	5			
2	Trash, litter, leav	es, debris, & clo	s in storm draina	ge system		n	9	9
B. W	/aste Manageme	nt (na, 1, 2, 3, 4	or 5)					
1	Litter, trash and	other waste mate	5	5	5			
C. E	rosion and Land	Iscaping (na, 1,	2, 3, 4, or 5)					
1	Condition of land	scaping materia		5	5	5		
2	Excessive use o	f herbicides				3	5	3
D. P	avement and Ha	rdscapes (na,1,	2, 3, 4, or 5)					
1	Pavement condi	tion - deterioratin	g and contributing	to fines				
2	Accumulation of	sediment in lot		5	5	5		
3	Gravel condition							
E. S	<u> </u>	•	als outside (na,1,					
1	Any evidence of	spills, drips, leak	s, or illicit dischar	ges.		5	5	5
						5	5	5
Pric	ority					Excellent	Excellent	Excellent
Mino	or Facility Rating	scale:						
_ 1	Poor							
2	Needs Improven	nent						
3	Satisfactory							
4	Good							
- 5	Excellent							

## Misc Facilities

Inspected By:	H. FREEMAN													
Misc Facilities			Lake Fisher Reservoir	Clearwater Art Center & Studios	Concord Housing Department	Municipal Parking Deck	Concord City Hall	Housing Maintenance building	Rider Transit Center	Oakwood Cemetery	West Concord Cemetery	Police Department	Transportation Management Center	Solid Waste Dump Site
Address			5090 Lake Fisher Rd	223 Crowell Dr	283 Harold Goodman Cir	28 Cabarrus Ave	35 Cabarrus Ave	255 Salem St	45 Transit Court NW	471 Church St	331 Fleetwood Ave	41 Cabarrus Avenue	880 Warren C Coleman Blvd	Alfred Brown J Ct
Date of inspection:	Year:	2023	5/5/23	3/8/23	5/5/23	1/19/23	1/19/23	5/5/23	4/10/23	2/15/23	3/8/23	1/19/23	2/21/23	1/9/23
A. Stormwater System (na,1, 2,	3, 4, or 5)													
	basins, culverts & other drainage feat & clogs in storm drainage system	ures	5	5	5	5	5	5	5	5	4	5	5	4
B. Waste Management (na, 1, 2	, 3, 4, or 5)													
	materials throughout the site d drain plugs are in place, not overfloor	ving	5	5	5	5	5	5	5	5	5	5	5	1
C. Erosion and Landscaping (	na,1, 2, 3, 4, or 5)													
1 Condition of landscaping ma 2 Excessive use of herbicides	aterial, stabilization and erosion		5	5	5	5	5	5	5	5	5	5	5	2
D. Pavement and Hardscapes (	na, 1, 2, 3, 4, or 5)													
1 Pavement condition - deterion 2 Accumulation of sediment in 3 Gravel condition	orating and contributing to fines		5	5	5	5	5	5	5	5	5	5	5	2
E. Storage/spills of liquids & m	aterials outside (na,1, 2, 3, 4, or 5)													
<del> </del>	, leaks, or illicit discharges. own outside (mops, vehicles, etc.) orevent unauthorized entrances.		5	5	5	4.5	5	5	5	5	5	5	4	5
			5	5	5	4.9	5	5	5	5	4.8	5	4.8	2.8
Priority			Excellent	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Good	Needs Improveme
Minor Facility Rating scale:  1 Poor 2 Needs Improvement 3 Satisfactory 4 Good 5 Excellent														

### **Fire Stations**

Inspected By:	H. FREEMAN											
Fire Stations			Fire Station	Fire Station	Fire Station	Fire Station	Fire Station	Fire Station	Fire Station	Fire Station	Fire Station	Fire Station
Address			31 Church St	42 Palaside Dr	100 Warren C Coleman Blvd	1165 Fire Station Dr	170 Pitts School Rd	250 International Dr	1485 Old Charlotte Rd	9880 Poplar Tent Rd	8955 Weddington Rd	3300 Robert Rd
Date of inspection:	Year:	2023	2/15/23	2/16/23	5/5/23	1/30/23	4/5/23	4/5/23	5/5/23	3/9/23	4/20/23	4/5/23
1 Structural condition of catch b: 2 Trash, litter, leaves, debris, & c B. Waste Management (na. 1, 2, 3		ires	- 5	5	5	5	5	5	5	5	5	5
Litter, trash and other waste m	aterials throughout the site drain plugs are in place, not overflow	ing	- 5	5	5	5	5	5	5	5	5	5
Condition of landscaping mate Excessive use of herbicides	rial, stabilization and erosion		5	5	5	5	5	5	5	5	5	5
D. Pavement and Hardscapes (na Pavement condition - deteriors Accumulation of sediment in Ic Gravel condition	iting and contributing to fines		5	5	5	5	5	5	5	5	5	5
E. Storage/spills of liquids & mat	erials outside (na,1, 2, 3, 4, or 5)											
1 Any evidence of spills, drips, le 2 Is anything being washed dow 3 Storage area is secured to pre	n outside (mops, vehicles, etc.)		2	5	5	5	5	5	5	5	5	5
			4.4	5	5	5	5	5	5	5	5	5
Priority Minor Facility Rating scale:			Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
1 Poor 2 Needs Improvement 3 Satisfactory 4 Good 5 Excellent												

# Good Housekeeping Raindrop Award



### **APPENDIX J**

### ARTICLE IV. STORMWATER QUALITY CONTROL AND MANAGEMENT

# Sec. 60-46. Duty of owner to comply with National Pollution Discharge Elimination (NPDES) Permit, Phase 2 and utility compliance.

- (a) The city manager or his designee shall not be authorized to approve any development not in compliance with:
  - (1) The NPDES Phase 2 Permit granted to the city by the State of North Carolina; or
  - (2) The applicable sections of the North Carolina Administrative Code; or
  - (3) The zoning and development ordinances of the city.
- (b) The city manager or his designee shall not be authorized to approve any connection to city drainage facilities unless he is of the opinion that the size, shape, and location of the newly installed drainage facilities are adequate for handling the anticipated amount of water.
- (c) It shall be the responsibility of the property owner of any parcel of land when making any improvements or changes affecting the land, which alter the existing flow pattern of runoff (storm) water, to install appropriate facilities according to the provisions of subsection (a) immediately above for carrying the runoff (storm) water into a properly approved conveyance, engineered stormwater control structure or via a best management practice approved by the city. No zoning compliance permit shall be issued for any property within the jurisdiction of the city until the conditions of this section are met.
- (d) It shall be illegal for any utility company to allow electricity or public water to be connected to any facility on any land that has not complied with the provisions of this section.
- (e) Any stormwater maintenance agreement shall be approved and accepted by the city council before recordation at the Cabarrus County register of deeds.

(Ord. No. 07-108, § 1, 12-13-2007; Ord. No. 11-14, § 1, 3-10-2011)

### Sec. 60-47. Non-stormwater discharge controls.

- (a) *Illicit discharges*. No person shall cause the commencement, conduct, or continuance of any nonstormwater discharge to the stormwater conveyance system except as provided below.
  - (1) Nonstormwater discharges associated with the following activities are allowed:
    - a. Filter backwash and draining associated with raw water intake screening and filtering devices;
    - b. Potable water line flushing and hydrostatic testing water associated with utility operations;
    - c. Flushing and cleaning of stormwater conveyances with unmodified potable water;
    - d. Uncontaminated pumped groundwater and other discharges from potable water sources such as water line leaks, draining for pipes for repairs, and emptying of potable water storage tanks;
    - e. Landscape irrigation and lawn watering water;
    - f. Diverted stream flows;
    - g. Uncontaminated rising groundwater;
    - h. Groundwater infiltration to the storm drain system;
    - i. Uncontaminated groundwater from foundation and footing drains;
    - j. Uncontaminated groundwater from crawl space pumps;

### **APPFNDIX J**

- k. Residential or commercial air conditioning condensation;
- I. Uncontaminated water from roof drains;
- m. Wash water from the cleaning of the exterior of buildings, including gutters, provided that the discharge does not pose an environmental or health threat;
- n. Uncontaminated groundwater from springs;
- o. Individual residential and occasional non-commercial car washing;
- p. Water from riparian habitats and wetlands;
- q. Discharges from the pumping or draining of natural watercourses or waterbodies;
- r. Filter backwash and draining associated with swimming pools provided that water quality is not significantly impacted:;
- s. Street wash water;
- t. Flows from fire fighting;
- u. Discharges associated with emergency removal and treatment activities, for hazardous materials, authorized by the federal, state, or local government on-scene coordinator; and
- v. Other non-stormwater discharges for which a valid NPDES discharge permit, waiver, or waste discharge order has been approved and issued by the State of North Carolina under the authority of the Federal Environmental Protection Agency, provided that:
  - The discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations;
  - 2. Written notification of such permitted discharge has been filed with the stormwater administrator, in a form acceptable to the stormwater administrator; and
  - 3. Discharges to the municipal separate storm sewer system have been authorized by the stormwater administrator.
- (2) Prohibited substances include, but are not limited to:
  - a. Oil and grease of petroleum or synthetic hydrocarbon origin;
  - b. Fats, oils, and grease of plant or animal origin;
  - c. Anti-freeze, parts cleaner, and other motor equipment fluids;
  - d. Chemicals, paints, pesticides, and other household hazardous wastes;
  - e. Animal waste, gray water and waste water from RV's and travel trailers;
  - f. Washdown water from concrete trucks, and floor mop water;,
  - g. Garbage, litter, yard waste, and any other solid waste materials; and
  - h. Contaminated washdown or drainage from dumpster drains.
- (3) With written concurrence of the North Carolina Department of Environmental Quality, the city may exempt in writing other non-stormwater discharges, which are not a source of pollutants to the storm water conveyance system or waters of the state.
- (b) Illicit connections. Note: This regulation first became effective on December 13, 2007.
  - (1) The construction, use, maintenance, or continued existence of illicit connections to the storm drain system is prohibited. Prohibited connections include, but are not limited to:

- a. Floor drains,
- b. Wastewater from washing machines,
- c. Wastewater from sanitary sewers,
- d. Wash water from commercial vehicle washing or steam cleaning, and
- e. Wastewater from septic systems.
- (2) This prohibition expressly includes, without limitation, illicit connections made prior to the adoption of this provision or any other ordinance prohibiting such connections, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. The property owner or the person using said connection shall remove the connection within one year following the effective date of this regulation; provided that the grace period shall not apply to connections which may result in the discharge of hazardous materials or other discharges which pose an immediate threat to health and safety, or are likely to result in immediate injury and harm to real or personal property, natural resources, wildlife, or habitat.
- (3) Where it is determined that said connection may result in the discharge of hazardous materials or may pose an immediate threat to health and safety, or is likely to result in immediate injury and harm to real or personal property, natural resources, wildlife, or habitat; or was made in violation of any applicable regulation or ordinance, the city manager or his designee shall designate the time within which the connection shall be removed. In setting the time limit for compliance, the city shall take into consideration:
  - a. The quantity and complexity of the work;
  - b. The consequences of delay;
  - c. The potential harm to the environment, to the public health, and to public and private property; and
  - d. The cost of remedying the damage.
- (c) Waste disposal. No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, left, or maintained, in or upon any public or private property, driveway, parking area, street, alley, sidewalk, component of the storm drain system, or waters of the state, any refuse, rubbish, garbage, litter, or other discarded or abandoned objects, articles, and accumulations, so that the same may cause or contribute to pollution. Wastes deposited in streets in proper waste receptacles for the purposes of collection are exempted from this prohibition.
- (d) Discharges in violation of industrial or construction activity NPDES stormwater discharge permit. Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the city prior to or as a condition of a subdivision map, site plan, building permit, or development or improvement plan; upon inspection of the facility; during any enforcement proceeding or action; or for any other reasonable cause.
- (e) Spills. Spills or leaks of polluting substances discharged to, or having the potential to be indirectly transported to the stormwater conveyance system, shall be contained, controlled, collected, and removed promptly. All affected areas shall be restored to their preexisting condition. Persons associated with the spill or leak shall immediately notify the City of Concord Fire Chief or his designee of all spills or leaks of polluting substances. Notification shall not relieve any person of any expenses related to the restoration, loss, damage, or any other liability which may be incurred as a result of said spill or leak, nor shall such notification relieve any person from other liability which may be imposed by state or other law.

(Ord. No. 07-108, § 1, 12-13-2007; Ord. No. 21-19, § 2, 3-11-2021)

#### Sec. 60-48. Enforcement of stormwater control and management.

- (a) Authority to enter. Any authorized city personnel shall be permitted to enter upon public or private property for the purposes of observation, inspection, sampling, monitoring, testing, surveying, and measuring compliance. Should the owner or occupant of any property refuse to permit such reasonable access, the city manager or his designee shall proceed to obtain an administrative search warrant pursuant to G.S. § 15-27.2 or its successor. No person shall obstruct, hamper or interfere with any such representative while carrying out his official duties.
- (b) Civil penalties. Civil penalties may be assessed simultaneously for each kind of violation: discharge, connection, improper BMP, maintenance or other violation.
  - (1) *Illicit discharges*. Any designer, engineer, contractor, agent, or any other person who allows, acts in concert, participates, directs, or assists directly or indirectly in the creation of a violation of this chapter shall be subject to civil penalties as follows:
    - a. For first time offenders, if the quantity of the discharge is equal to or less than five gallons and consists of domestic or household products in quantities considered ordinary for household purposes, said person shall be assessed a civil penalty not to exceed \$100.00 per violation or per day for any continuing violation, and if the quantity of the discharge is greater than five gallons or contains non-domestic substances, including but not limited to process waste water, or if said person cannot provide clear and convincing evidence of the volume and nature of the substance discharged, said person shall be assessed a civil penalty not to exceed \$1,000.00 per violation or per day for any continuing violation.
    - b. For repeat offenders, the amount of the penalty shall be at least double the amount assessed for the previous penalty, not to exceed \$10,000.00 per violation or per day for any continuing violation.
    - c. In determining the amount of the penalty, the city manager or his designee shall consider:
      - 1. The degree and extent of harm to the environment, the public health, and public and private property;
      - 2. The cost of remedying the damage;
      - 3. The duration of the violation;
      - 4. Whether the violation was willful;
      - 5. The prior record of the person responsible for the violation in complying or failing to comply with this chapter;
      - 6. The costs of enforcement to the public; and
      - 7. The amount of money saved by the violator through his, her, or its noncompliance.
  - (2) *Illicit connections*. Any person found with an illicit connection in violation of this chapter and any designer, engineer, contractor, agent, or any other person who allows, acts in concert, participates, directs, or assists directly or indirectly in the establishment of an illicit connection in violation of this chapter, shall be subject to civil penalties as follows:
    - a. First time offenders shall be subject to a civil penalty not to exceed \$500.00 per day of continuing violation.
    - b. Repeat offenders shall be subject to a civil penalty not to exceed \$1,000.00 per day of continuing violation.
    - c. In determining the amount of the penalty, the city manager or his designee shall consider:
      - 1. The degree and extent of harm to the environment, the public health, and public and private property;

- 2. The cost of remedying the damage;
- 3. The duration of the violation;
- 4. Whether the violation was willful;
- 5. The prior record of the person responsible for the violation in complying or failing to comply with this chapter;
- 6. The costs of enforcement to the public; and
- 7. The amount of money saved by the violator through his, her, or its noncompliance.
- d. Procedures for assessing penalties pursuant to illicit connections. Said penalties shall be assessed by the city manager or his designee. No penalty shall be assessed until the person alleged to be in violation is served written notice of the violation by registered mail, certified mail-return receipt requested, or personal service. Refusal to accept the notice shall not relieve the violator of the obligation to pay the penalty. The notice shall describe the violation with particularity and specify the measures needed to come into compliance. The notice shall designate the time within which such measures must be completed. In setting the time limit for compliance, the city shall take into consideration:
  - 1. The quantity and complexity of the work;
  - 2. The consequences of delay;
  - 3. The potential harm to the environment, the public health, and public and private property; and
  - 4. The cost of remedying the damage.

The notice shall warn that failure to correct the violation within the specified time period will result in the assessment of a civil penalty and/or other enforcement action. If after the allotted time period has expired, and the violation has not been corrected, the penalty shall be assessed from the date of receipt of notice of violation and each day of continuing violation thereafter shall constitute a separate violation under this section.

- (3) Improper BMP maintenance, inspection and reporting. Any permittee found in violation of the BMP maintenance, inspection and reporting requirements of their maintenance agreement with the city or the conditions of their stormwater conveyance and control system permit shall be subject to civil penalties as follows:
  - a. First time offenders shall be subject to a civil penalty not to exceed \$500.00 per day of continuing violation.
  - b. Repeat violators shall be subject to a civil penalty not to exceed one \$1,000.00 per day of continuing violation.
  - c. In determining the amount of the penalty, the city manager or his designee shall consider:
    - 1. The degree and extent of harm to the environment, the public health, and public and private property;
    - 2. The cost of remedying the damage;
    - 3. The duration of the violation;
    - 4. Whether the violation was willful;
    - 5. The prior record of the person responsible for the violation in complying or failing to comply with this chapter;
    - 6. The costs of enforcement to the public; and
    - 7. The amount of money saved by the violator through his, her, or its noncompliance.

- d. Procedures for assessing penalties pursuant to improper BMP maintenance, inspection and reporting. Said penalties shall be assessed by the city manager or his designee. No penalty shall be assessed until the permittee alleged to be in violation is served written notice of the violation by registered mail, certified mail-return receipt requested, or personal service. Refusal to accept the notice shall not relieve the violator of the obligation to pay the penalty. The notice shall describe the violation with particularity and specify the measures needed to come into compliance. The notice shall designate the time within which such measures must be completed. In setting the time limit for compliance, the city shall take into consideration:
  - 1. The quantity and complexity of the work;
  - 2. The consequences of delay;
  - 3. The potential harm to the environment, the public health, and public and private property; and
  - 4. The cost of remedying the damage.

The notice shall warn that failure to correct the violation within the specified time period will result in the assessment of a civil penalty and/or other enforcement action. If after the allotted time period has expired, and the violation has not been corrected, the penalty shall be assessed from the date of receipt of notice of violation and each day of continuing violation thereafter shall constitute a separate violation under this section.

- (4) Other violations. Any person found in violation of other provisions of this chapter, not specifically enumerated elsewhere, shall be subject to a civil penalty not to exceed \$100.00 per violation or per day for any continuing violation.
- (5) Payment/collection procedures. Penalties shall be assessed by the city manager or his designee. No penalty shall be assessed until the person alleged to be in violation is served written notice of the violation by registered mail, certified mail-return receipt requested, or personal service. Refusal to accept the notice shall not relieve the violator of the obligation to pay the penalty. The city manager or his designee shall make written demand for payment upon the person in violation. If the payment is not received or equitable settlement reached within 30 days after demand for payment is made, the matter shall be referred to the city attorney for institution of a civil action in the name of the city, in the appropriate division of the general court of justice in Cabarrus County for recovering the penalty.
- (c) Injunctive relief.
  - (1) Whenever the city council has a reasonable cause to believe that any person is violating or threatening to violate this chapter, rule, regulation, order duly adopted or issued pursuant to this chapter or making a connection to a stormwater conveyance or stormwater conveyance system other than in accordance with the terms, conditions, and provisions of approval, the city may, either before or after the institution of any other action or proceeding authorized by the Code, institute a civil action in the name of the city for injunctive relief to restrain and abate the violation or threatened violation.
  - (2) The institution of an action for injunctive relief under subsection (c) shall not relieve any party to such proceeding from any further civil or criminal penalty prescribed for violations of this Code.
- (d) Criminal penalties. Any person who knowingly or willfully violates any provision of this chapter, rule, regulation, order duly adopted or issued pursuant to this chapter shall be guilty of a misdemeanor, punishable by a fine not to exceed \$500.00 or imprisonment for not longer than 30 days. Each violation shall be a separate offense.

Criminal penalties are enforceable through the provisions of G.S. §160A-175 and Code of Ordinances § 1.6

(e) Appeals of this section 60-48 shall follow the procedures outlined in section 60-49.

#### Sec. 60-49. Appeals.

- (a) Persons entitled to a hearing. The following persons are entitled to a hearing pursuant to this section, for any actions taken by the city pursuant to this Article IV, each of whom is hereafter referred to as "aggrieved person."
  - (1) Any person whose application for a permit extending city stormwater utility under this article is denied;
  - (2) Any person against whom the city assesses a penalty pursuant to this article.
- (b) Procedures for requesting a hearing. The aggrieved person shall exercise such right to a hearing by making a written demand for a hearing in accordance with this subsection. Any person making a demand for a hearing shall deliver the demand to the stormwater administrator within 30 days of the following:
  - (1) The date of issuance of the contested permit;
  - (2) The date of the notice of the denial of permit issuance;
  - (3) The date of the notice of a revocation, modification, or suspension of an issued permit; or
  - (4) The date that a penalty was assessed.
- (c) Content of hearing request. The written demand for a hearing must identify separately and with particularity the following:
  - (1) The aggrieved person or persons;
  - (2) The specific permit provision or condition or other issues contested to be considered;
  - (3) The reason for the objection; and
  - (4) Any alternate provisions, conditions, or terms the aggrieved person proposes.
- (d) Hearing procedures.
  - (1) The hearing shall be conducted by the stormwater administrator and shall be subject to such rules as have been approved by the city council or the stormwater administrator as hereinafter set forth.
  - (2) If the demand for a hearing is not made in accordance with the provisions of this section, the stormwater administrator shall reject the demand and any right to a hearing shall be terminated.
  - (3) If any person demanding a hearing shall fail to comply with an order of the stormwater administrator or with any rules issued by the stormwater administrator or approved by the city council concerning the conduct of the hearing, the stormwater administrator may reject the demand and any right to a hearing shall be terminated.
  - (4) Within 90 days of the receipt of the written hearing request, the stormwater administrator shall conduct a hearing and issue a final order or decision. The stormwater administrator shall transmit a copy of the final order or decision to the aggrieved person by registered or certified mail.
  - (5) The stormwater administrator is authorized to take any action which is reasonably necessary or convenient in considering a demand for a hearing and in resolving the issues raised therein so long as such action is not contrary to the provisions of this article, or other applicable law.
  - (6) The stormwater administrator may appoint a hearing officer to conduct any hearing authorized by this section. A hearing officer shall have the same authority to conduct a hearing and reach a decision as is provided to the stormwater administrator, provided that the decision of the hearing officer shall not be final, but shall be a recommended decision for consideration by the stormwater administrator.
  - (7) The stormwater administrator may approve such decision without change, reject the decision that is supported by evidence presented at the hearing, or issue a different or revised decision that is supported by evidence presented at the hearing.

- (8) The decision of the stormwater administrator shall be final.
- (9) A final order may provide that the action that is the basis for the demand for a hearing is approved without change or may modify such action in any manner that is supported by the evidence presented at the hearing.
- (10) The stormwater administrator may, but is not required to, provide for any part of the hearing to be recorded by any reasonable means including, but not limited to, audio and/or video recording, stenographer, or court reporter. A transcript of any hearing, part thereof, which is recorded need not be prepared unless requested. The original of a requested transcript shall be filed with the stormwater department. Each person shall bear the cost of the transcript which such person requests, including any copy thereof. The decision of the stormwater administrator shall be reviewable only by seeking a writ of mandamus from the superior court within 30 days of the entry of the final order set forth herein.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Secs. 60-50-60-75. Reserved.

ARTICLE V. CREATION, EXTENSION, MODIFICATION, OR CONNECTION TO THE STORMWATER UTILITY SYSTEM (THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

#### Sec. 60-76. Purpose of article.

The purpose of this article is to set forth the standards by which the city's municipal separate storm sewer system (MS4) may be extended.

The standards of this article apply to all extensions, both publicly and privately owned. In addition, this article contains standards for private extensions planned to be incorporated into the MS4.

The city provides the MS4 in public rights-of-way and city stormwater easements according to the provisions of this chapter. In an effort to plan for future extensions of the Concord stormwater management system, the city maintains a Capital Improvement Plan (C.I.P.). The city shall endeavor to provide the extensions and services proposed in the C.I.P. if funded through the city's capital improvements budget. Extensions to the system may be made during the course of development. Consideration shall be given to each proposed developments in conformity to the city's "stormwater master plan," the adopted land use and other plans of the city, and the city's adopted annexation plan. If an extension or stormwater control measure is authorized, then all city design standards shall be met and the permit application process in [Unified Development Ordinance] (UDO) Articles 4 and 5 or 6 shall be followed. All such extensions shall become a part of the city's MS4 if accepted for public ownership and maintenance by the city council.

(Ord. No. 07-108, § 1, 12-13-2007)

# Sec. 60-77. Procedures and standards for creation, extension, modification, or connection to the Concord Municipal Separate Storm Sewer System (MS4).

- (a) Prior to application submittal. Preliminary site plans and engineering plans shall be prepared in accordance with the city's ordinances, including this chapter 60, the UDO (see article 4 and articles 5 or 6), and the city's technical standards manual prior to an application package submittal. Applicants shall meet with the city's stormwater administrator or his designee to review these preliminary plans prior to the preparation of the final plans and the application package.
- (b) Application requirements.
  - (1) All persons intending to construct, alter, modify, expand or connect to any portion of the Concord Stormwater Management System shall make timely and proper application to the city's stormwater administrator and

provide such information as may be required by the stormwater administrator and director of engineering. At a minimum, the applicant shall:

- a. Provide a plan that shows the acreage of the area to be served, identifies the type of development (residential, commercial etc.), estimates the maximum potential demands that the development may impose on the existing system, and determine the adequacy of the existing system to meet those demands;
- b. Provide a proposed schedule for the construction of the development and any proposed development phases;
- c. Document the intended use of the stormwater conveyance and control system extension;
- d. Design and install the infrastructure in accordance with the C.I.P. and/or the city's standard specifications and design standards. If the proposed extension has not been identified in a C.I.P., the design engineer shall evaluate the infrastructure's ability to adequately serve surrounding sites in the area of consideration. This evaluation shall be reviewed and approved by the stormwater administrator or his designee;
- e. Contract and fund the complete range of design services required for all on-site and off-site utilities. The alignment and design of the utilities shall meet the intent of a project identified in the city's standard specifications and design standards. The design shall meet the design standards of this article and shall be submitted to the city for review and approval in accordance with this chapter. Designs and alignments that do not comply with the intent of the C.I.P. and/or the city's standard specifications and design standards may be rejected regardless of project's compliance with other portions of this chapter.
- f. Grant to the city, at no cost, all on-site utility rights-of-way and easements deemed necessary by the stormwater administrator and the director of engineering.
- (c) Incomplete application package. Any application package determined incomplete by the stormwater administrator shall be returned to the applicant. Revised engineering plans and specifications shall constitute a re-submittal, shall be accompanied by a new fee, and shall require additional time for review. A complete application package that contains sufficient information to ascertain reasonable grounds to believe the application package and its contents meet all applicable standards of this chapter shall be acknowledged by a letter setting a date for a pre-construction conference. No discussion at the review conference shall preclude or otherwise bar the city from denying a permit, or issuing a permit that incorporates conditions, based upon changed circumstances or information not previously known by the stormwater administrator or the applicant. In either event, no single submittal of an application package will be held open for review longer than 90 days without the issuance of a letter requesting additional information or an "authorization to construct" permit being issued following a pre-construction conference. Application packages delayed by lack of action by any person or entity other than the city shall be deemed denied and shall require re-submittal.
- (d) Authorization to construct. It shall be unlawful to begin the construction of a building or project infrastructure until the stormwater administrator has issued an "authorization to construct" permit, and any additional required permits have been issued by either the city, Cabarrus County and/or the State of North Carolina, as needed and required.
- (e) Funding of oversized utilities. The city shall take reasonable steps to ensure that adequate funding is available to accommodate any requested oversizing or upsizing needs, as provided in section 60-78 below, however the city cannot guarantee the funding of specific proposed projects.
- (f) Standards for Concord separate stormwater sewer system (MS4) extensions and/or connections. The responsibility for and cost of such extension within new developments shall be borne by the requesting party, unless upsizing is required by the city in accordance with section 60-78. Where a proposed development of property located within the city necessitates a replacement, upgrade, or expansion in size or capacity of stormwater conveyance and appurtenant facilities that are already available to serve the property (as opposed to an extension of a line to make service available), and the replacement, upgrade, or expansion for the proposed development cannot be

constructed in the time requested by the owner or developer under the city's scheduled and budgeted C.I.P. or capital improvements budget, the city may enter into a contract with the owner or developer of such property pursuant to which the owner or developer shall pay some or all of the cost of the necessary improvements.

(Ord. No. 07-108, § 1, 12-13-2007)

# Sec. 60-78. Standards for oversizing Concord's Stormwater Management System and infrastructure reimbursement agreements.

- (a) Pursuant to G.S. 160A-499 this section authorizes and sets forth the procedures and terms under which the city may approve reimbursement agreements with private developers and property owners for the design and construction of MS4 that is included on the city's capital improvement plan and serves the developer or property owner.
- (b) The city manager, or designee, is authorized to negotiate municipal infrastructure reimbursement agreements with private developers and property owners pursuant to this section. In negotiating such agreements, the city manager, or designee, shall determine that:
  - (1) The cost to the city will not exceed the estimated cost of providing for the municipal infrastructure through either eligible force account qualified labor or through a public contract let pursuant to G.S. 143-128 et seq.; or
  - (2) The coordination of separately constructed municipal infrastructure with the associated private development would be impracticable.
  - (3) City approval authority for agreements under this section shall be governed by general city contracting authorizations and delegations.
- (c) Such reimbursements, if any, may be paid from any lawful source if approved by the city council.
- (d) A municipal infrastructure reimbursement agreement approved pursuant to this section shall not be subject to G.S. Ch. 143, Art. 8 unless the award of a contract for work would have required competitive bidding if the contract had been awarded by the city. If the city would have been required to follow G.S. Ch. 143, Art. 8, then the developer or property owner is required to comply with the requirements of G.S. Ch. 143, Art. 8.
- (e) A municipal infrastructure reimbursement agreement approved pursuant to this section shall require the private developer or property owner party to comply with all of the city's rules, regulations and ordinances and be current on all debts, fees or taxes owed to the city.

(Ord. No. 07-108, § 1, 12-13-2007)

### Sec. 60-79. Infrastructure capital recovery fee for CIP investments.

The Concord Stormwater Management Program will exercise a capital investment program following the needs identified in the stormwater master plan and to meet other infrastructure and water quality needs as they are identified by other means, based upon the availability of funds and approval by city council. As pipe sizes are upsized and regional stormwater detention and/or treatment systems are installed to accommodate future land development, a significant capital investment is made by the city that includes annual maintenance and monitoring costs. When new developments are constructed that will have access to these city owned and operated facilities, the new developments will be required to pay a proportionate share of the capital investment and operating costs associated with all downstream pipes and detention and/or treatment facilities. The cost of these capital recovery fees will be charged to the developer and must be paid prior to receiving final plat approval.

#### Sec. 60-80. Pre-construction conference and issuance of permit.

- (a) The developer, design engineer, and contractor or a designated representative for each shall attend the preconstruction conference. If a representative for each of the aforementioned parties is not in attendance, the preconstruction conference shall be rescheduled to a later date when each party can be represented.
- (b) The developer, design engineer, and contractor or a designated representative for each, shall provide copies of all applicable federal, state, and local permits, easements, rights-of-way and encroachments and the appropriate engineering drawings to the stormwater administrator for approval prior to the pre-construction conference.
- (c) The "authorization to construct" permit shall be issued by the stormwater administrator after all applicable federal, state and local permits, recorded easements and encroachments have been received and written approval from the stormwater administrator has been issued for the submitted engineering drawings and the developer, design engineer, and contractor or a designated representative for each has met the pre-construction conference requirements.
- (d) Any construction activity initiated prior to the receipt of a written "authorization-to-construct" permit from the stormwater administrator shall be prohibited and subject to a civil penalty of up to ten percent per day of the posted bond or letter of credit. If no bond or letter of credit has been posted, any utility construction activity initiated prior to the receipt of a written "authorization-to-construct" permit from the stormwater administrator shall be prohibited and subject to a civil penalty of up to ten percent per day of the amount of the bond or letter of credit that should have been posted if the permitting process set forth in this chapter had been followed as by law provided.
- (e) In the event that construction does not commence and complete within 12 months of the issuance of the permit, the permit shall expire and a new permit must be applied for and obtained by the applicant. An active permit must be maintained until full final approval has been issued for the infrastructure defined in the permit. Written requests for an extension of time received prior to expiration of the permit may be granted by the stormwater administrator for good cause shown.
- (f) The denial of the issuance of a permit, subject to the provisions in this section shall be made in writing and shall contain the reasons for the denial and the city's estimate of the general changes in the applicant's proposed activities or plan which will be required in order that the applicant may obtain a permit. Nothing in such estimate shall preclude or otherwise bar the city from denying a permit, which incorporates such changes, based upon changed circumstances or information not previously known by the stormwater administrator or the applicant.
- (g) Copies of all applicable federal, state, and local permits shall be submitted to the stormwater administrator prior to the City of Concord's issuance of an "authorization-to-construct" permit.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-81. Modifications and revocations of permits.

Any permit issued by the city pursuant to this article is subject to revocation, suspension or modification, in whole or in part, upon 14 days' written notice to the applicant by the stormwater administrator for good cause including, but not limited to the following:

- (1) Violation of any terms, conditions, or requirements of this article or the permit; or
- (2) Falsification or misrepresentation of information provided in the permit application and/or in the engineering plans and specifications; or
- (3) Failure to disclose relevant information; or

- (4) Refusal of or by the owner/developer or their contractor, agent, and employees to allow authorized officers, employees, or agents of the city, upon presentation of credentials, to inspect or observe any activity, system, or other work approved within the owner/developer's permit; or
- (5) Failure to follow the approved contract documents and engineering plans and specifications without receiving proper authority from the city.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-82. Construction process.

- (a) Deviations from the approved engineering plans and specifications or changes in site conditions shall be submitted in writing by the engineer to the stormwater administrator for written approval prior to any further construction or installation activity.
- (b) Modifications to the approved plans requiring federal, state, and local regulatory approval shall be the responsibility of the developer, contractor, and/or engineer. The developer shall assume full responsibility for acquiring the applicable regulatory permits and approvals, prior to further construction or installation activity.
- (c) The developer shall hold the city and/or stormwater administrator, their officers and agents harmless of any responsibility or liability, upon the failure of the developer to obtain required regulatory approvals prior to further construction activity and the developers' failure to adhere to regulatory requirements during the construction activities.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-83. Inspection.

- (a) The developer shall obtain the services of a competent and experienced engineer. The engineer shall provide the services of project design, surveying and grade control, right-of-way and easement recordation and construction inspection. It shall be the engineers' responsibility to supervise construction, establish grades or to provide solutions to grade, construction, or design problems and to obtain the appropriate federal, state, and local permits, encroachments, easements, and rights-of-way, as applicable.
- (b) The stormwater administrator shall have a field representative periodically observe the work while construction is in progress. This periodic construction observation by the stormwater administrator shall be subject to reasonable development construction observation fees and any other reasonable fees that may be applicable. Failure of the stormwater administrator to discover deficiencies at the time of construction shall not relieve the developer or his/her agent of the responsibility to correct such defects.
- (c) The engineer shall certify that the installation of the extensions is in accordance with all applicable federal, state, and local regulations and standards and constructed in accordance with the approved contract documents and engineering plans.
- (d) Contract documents, approved engineering plans and specifications bearing the city's stamp of approval and associated permits shall be present at the project site at all times and made available upon request.

(Ord. No. 07-108, § 1, 12-13-2007)

## Sec. 60-84. Video assessment.

The interior of all storm sewers shall cleaned and the contents disposed in a manner acceptable to the city and NC DEQ and shall be video recorded on a CD, DVD or equivalent successor media after the installation and testing is complete and submitted to the stormwater administrator for review prior to the acceptance and final approval of the extension. All

associated costs shall be borne by the developer. Only those pipes located within the public road rights-of-way and city easements accepted for public ownership and maintenance by city council will become part of the Concord MS4.

(Ord. No. 07-108, § 1, 12-13-2007; Ord. No. 21-19, § 1, 3-11-2021)

#### Sec. 60-85. As-built drawings.

- (a) The developer, and his/her engineer and/or contractor or his/her designee shall maintain current as-built drawings and survey the location and elevation of the infrastructure during the construction process. As-built drawings shall be maintained and available for inspection, upon the stormwater administrator's request.
- (b) The engineer shall submit and certify a legible copy of the "as-built" drawings for the review, approval, and recordation to the stormwater administrator upon the completion of construction.
- (c) As-built drawings shall include, but are not limited to, all of the information submitted on the engineering construction drawings as corrected, as well as the information listed below:
  - (1) General information.
    - a. Road names, as approved by the business and neighborhood services department, shall be identified on the plan view.
    - b. Underground utility location, if not noted, if not identified on the approved engineering plans, or if the exact location not previously identified. Additional information shall be identified on the profile view.
    - c. Relative features, including but not limited to street addresses, property line, natural features, etc. Additional information shall be identified on the plan view.
  - (2) Conveyance-related information.
    - a. Pipes.
      - Location of pipes within right-of-way limits, if changed. Corrections shall be identified on the plan view.
      - 2. Installed distances and slopes. Information shall be identified on the profile view.
      - 3. Pipe type and size, if changed. Corrections shall be identified on the profile view.
      - 4. Bore casing sizes and distances. Information shall be identified on the plan view.
      - Details on aerial creek crossings. Information shall be identified on the plan and profile view as needed.
      - 6. Station location of special devices or appurtenances (e.g., anti-seep collars), measured from the downstream structure. Information shall be identified on the profile view.
      - 7. Information concerning distance to other utilities shall be identified on the profile view.
      - 8. Station location of laterals, measured from the downstream structure shall be identified on the plan view.
    - b. Structures.
      - 1. Structure shape, size and inlet type. Information shall be identified on the profile view.
      - 2. Elevations. Information shall be identified on the profile view.
        - i. Inverts in, inverts out, and drop inverts (top and bottom).
        - ii. Inlets and rims. Elevations shall be provided in vertical feet.

- iii. Overflow structures. Elevations shall be provided in vertical feet.
- (3) Detention-related information.
  - a. Location of perimeter within right-of-way limits, if changed. Corrections shall be identified on the plan view.
  - b. Perimeter and distances. Information shall be identified on the plan view.
  - c. Installed slopes. Corrections shall be identified on the profile view.
  - d. Distance to other utilities. Information shall be identified on the plan view.
  - e. Corrections to design and performance parameters in approved engineering design package for each BMP as required.

(Ord. No. 07-108, § 1, 12-13-2007)

# Sec. 60-86. Record drawings.

- (a) The engineer shall provide to the stormwater administrator "record" drawings and a digital copy of "record" drawings. Record drawings shall be signed and sealed by a professional engineer licensed to practice in North Carolina. Digital record drawings shall be supplied in format AutoCAD Release 14 or a later release, or in a format as specified by the stormwater administrator. All surveys shall be referenced to North Carolina grid coordinates. In addition the vertical monuments and datum from which the project was designed shall be designated on the map.
- (b) As-built drawings shall be signed and sealed by a professional surveyor licensed to practice in North Carolina and shall reflect actual field location of infrastructure as installed. All information required on the as-built drawings shall be reflected on the record drawings.
- (c) Recorded rights-of-way and easements shall be shown on the record drawings, including the required digital record drawings. Utility rights-of-way and easements shall be surveyed and recorded in accordance with the city's current rights-of-way, easements and encroachments policy. All recorded rights-of-way, easements, and encroachments shall be submitted to the stormwater administrator prior to final approval of the infrastructure.
- (d) Record drawings shall be submitted prior to the certification and activation of the extension.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-87. Certification.

The engineer shall be responsible for sealing and certifying that materials and the construction of the extension and/or modification to the stormwater conveyance and control system have met all the applicable rules, regulations, statutes, and ordinances of the City of Concord, State of North Carolina, and the United States of America and is in substantial compliance with the approved engineering plans, specifications, supporting materials, and associated permits. A copy of the certification shall be provided to the stormwater administrator prior to final approval. Projects may be certified in phases.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-88. Application package for final approval.

The application package for final approval of the stormwater conveyance and control system extensions and/or modifications (or any phase thereof) shall include but shall not be limited to the following:

- (1) Three completed copies of the final certification executed and sealed by an engineer, one copy of the sealed "as-built" drawings, three sets of the sealed "record" drawings, and one digital copy of the "record" drawings, as specified in section 60-87 of this article, shall be submitted to the stormwater administrator for review and approval.
- (2) The applicant shall satisfactorily prove that the applicant, or any parent, subsidiary, or other affiliate, has obtained all necessary permits, encroachments, and rights-of-way and executed all necessary maintenance agreements, in accordance with the city's UDO Section 4.4.6, required to carry out the activity for which the permit is being requested.
- (3) All executed and recorded rights-of-way, easements, encroachments, and maintenance agreements shall be submitted to the stormwater administrator in a form and content acceptable to the city attorney prior to final approval of the infrastructure.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-89. Final approval requirements and conditions.

- (a) Final approval shall not be issued until the construction of the extension and/or modification to the stormwater conveyance and control system have meet all the applicable rules, regulations, statutes, and ordinances of the city, the State of North Carolina, and the United States of America.
- (b) The engineer shall certify that the installation and the construction of any extension and/or modification to the stormwater conveyance and control system shall meet all regulatory design standards and is in substantial compliance with the approved engineering plans and associated permits.
- (c) If the stormwater administrator should find that final approval should be denied, the denial shall be made in writing and shall contain each reason for the denial and the stormwater administrator's estimate of the general changes in the applicant's proposed activities or plan which will be required, in order that the applicant may obtain a final approval. Nothing in such estimate shall preclude or otherwise bar the stormwater administrator from denying final approval, which incorporates such changes, based upon changed circumstances or information not previously known by the stormwater administrator.
- (d) A properly executed certification, the "as-built" drawings, the "record" drawings, and the video assessment, as prescribed in section 60-85 of this article, shall be submitted to the stormwater administrator for review and shall be determined complete by the stormwater administrator before final approval is issued.
- (e) No construction, alteration, or expansion of the stormwater conveyance and control system shall be placed into final service until the applicant has fully complied with all applicable federal, state, and local regulations and standards and has obtained final approval from the stormwater administrator.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-90. Donation/acceptance of systems to the city.

- (a) Stormwater management systems and associated rights-of-way and other appurtenances as required that are intended for public use and transport stormwater from city roadways shall be granted and conveyed to and become the property of the city upon the final written approval of the stormwater administrator and acceptance by the city council.
- (b) The city council shall not accept the ownership, operation, or maintenance responsibility of modifications or extensions that do not meet the requirements of this article or other applicable law and regulation.

(c) Following the developer's donation and the city's acceptance of a modification or extension, the city shall have sole ownership and rights to the modification or extension and shall assume all operation and maintenance responsibilities.

(Ord. No. 07-108, § 1, 12-13-2007)

#### Sec. 60-91. Warranty.

- (a) The developer shall be responsible for the material and craftsmanship of all donated infrastructure for a period of one year from the date of certification of the project or the phase of the project. The city has the right to increase the warranty period for atypical construction materials or construction techniques. The warranty period shall begin on the date that the city accepts ownership of the modification or extension.
- (b) In accordance with Article 5, Section 5.7.10 of the City of Concord Unified Development Ordinance, this warranty shall include any damages that may arise from construction by other utility companies or homebuilders.
- (c) The city shall relieve the developer of their obligation under the warranty period by when the developer shall performs a one-year warranty inspection satisfactory to the city that shall include, but not be limited to cleaning the interior of all storm sewers and dispose of the contents in a manner acceptable to the city and NC DEQ and shall video recorded on a CD, DVD or equivalent successor media all pipes and appurtenances, and all video and a written summary of condition of the stormwater system with an itemized list of deficiencies shall be complete and submitted to the stormwater administrator for review prior to the acceptance and final approval of the extension. The city reserves the right to have an observer present during the cleaning and video inspection activities, and to receive copies of the unedited videos immediately upon request at no cost to the city. All associated cleaning and inspection costs shall be borne by the developer.

Any and all defects found at this time that do not conform to the city's standards or this article shall be repaired or replaced at the developer's expense. The city stormwater administrator shall be the final judge of the acceptability of workmanship and quality of materials and installation.

(d) The city shall, upon final acceptance at the end of the applicable warranty period, release the developer's bond of surety or letter of credit.

(Ord. No. 07-108, § 1, 12-13-2007; Ord. No. 21-19, § 1, 3-11-2021)

## Sec. 60-92. Design standards.

Stormwater conveyance and control system extensions and/or modifications shall be designed in accordance with all applicable federal; state, including but not limited to 15A NCAC 2H .1008 and the NCDEQ Stormwater BMP Manual; local regulations; and the city's Technical Standards Manual.

(Ord. No. 07-108, § 1, 12-13-2007; Ord. No. 21-19, § 1, 3-11-2021)

### Sec. 60-93. Required design calculations.

The engineer shall provide all necessary evaluations, justifications, and calculations to the city's stormwater department deemed necessary to meet the requirements of all federal, state, and local requirements and to ensure that the design conforms to good engineering practice.

#### Sec. 60-94. Exception.

- (a) The City of Concord may grant an exception from the requirements of this chapter if:
  - (1) There are unique circumstances applicable to the site such that strict adherence to the provisions of the chapter will result in unnecessary hardship or create practical difficulties; and
  - (2) The exception is in harmony with the general purpose and intent of this chapter and no violation of the city's NPDES stormwater discharge permit or Interbasin Transfer Certificate conditions will result; and
  - (3) In granting this exception, water quality has been protected, public safety and welfare has been assured, and substantial justice has been done; and
  - (4) The exception request is approved by both the stormwater administrator and the director of engineering.
- (b) A written request for an exception shall be submitted to the stormwater administrator and shall state the specific variance sought, the justification for the variance, and what measures will be taken to insure the requirements of this chapter have been met to the maximum extent practicable. It shall include descriptions, drawings, calculations and any other information that is necessary to evaluate the proposed exception.