



Stormwater Management Program Assessment

North Carolina Division of Water Quality
512 N. Salisbury St. Raleigh, NC 27604

Contained In This Report:

- Any Permit Number

Background Information

SW100010 **APPLICANT STATUS INFORMATION**

SW100020 Name of Public Entity Seeking Permit Coverage

The University of North Carolina at Chapel Hill

SW100060 Jurisdictional Area (square miles)

6.5

SW100070 Population Permanent

14,000

SW100080 Population Seasonal (if available)

29,390

SW100110 **RPE / MS4 SYSTEM INFORMATION**

SW100120 Storm Sewer Service Area (square miles)

6

SW100130 River Basin(s)

Cape Fear River, White Oak

SW100150 Estimated percentage of jurisdictional area containing the following four land use activities

SW100160 Residential

3

SW100170 Commercial

12

SW100180 Industrial

1

SW100190 Open Space

84

SW100210 Do you have an inventory of storm water inlets, pipes, ditches, and open channels?

Yes

Comments: The initial stormwater inventory project for the main UNC-CH campus has been completed. This means that approximately 100% of the following infrastructure has been mapped: pipes 12 inches in diameter or greater, inlets, manholes, ditches and open channels. A secondary stormwater mapping effort is still underway to map smaller pipes, downspouts, minor trench drains, window drains and stairwell drains, etc. Approximately 85% of this secondary mapping has been completed. Due to additional outlying UNC-CH owned areas being added under the revised permit, additional mapping activities will begin in 2013.

SW100220 Do you know how many outfalls your city discharges to and where they are located?

Yes

SW100260 **EXISTING LOCAL WATER QUALITY PROGRAMS**

SW100270 "Complete a table below for each river basin within the MS4 service area. The web sites and resource contacts listed below under Information Sources will help you locate the information you need. Storm water programs should be designed to address the specific needs of the community and water resources they are intended to protect. If you haven't done so already, collect information on your city's receiving waters and what pollutants and sources are impacting those waters. You should also know the various uses of your receiving waters so you can design a program to protect those uses. Complete a table below for each river basin within the MS4 service area. The web sites and resource contacts listed below under Information Sources will help you locate the information you need. "

SW100280 River Basin

SW100283 Program 1

SW100290 Receiving Stream Name

Cape Fear River

SW100300 Stream Segment

03-03-06

SW100310 Water Quality Classification

WS-IV; NSW

SW100320 Use Support Rating

SW100325 TMDL

Yes

SW100331 Program 2

SW100332 Receiving Stream Name

Cape Fear River

SW100333 Stream Segment

03-06-04

SW100334 Water Quality Classification

WS-IV; NSW

SW100335 Use Support Rating

SW100336 TMDL

Yes

SW100337 Program 3

SW100338 Receiving Stream Name

White Oak

SW100339 Stream Segment

03-05-03

SW10033A Water Quality Classification

SA; ORW

SW10033B Use Support Rating

SW10033C TMDL

Yes

SW10033D Program 4

SW10033E Receiving Stream Name

NA

SW10033F Stream Segment

NA

SW10033G Water Quality Classification

NA

SW10033H Use Support Rating

SW10033I TMDL

Comments: NA

SW100340 Local Nutrient Sensitive Waters Strategy

Yes

SW100350 Local Water Supply Watershed Program

Yes

SW100360 Delegated Erosion and Sediment Control Program

Yes

SW100370 CAMA Land Use Plan

Yes

SW100400 Your river basin table should list the primary streams that receive stormwater runoff from the MS4 jurisdictional area. Primary streams are those that are shown on a USGS topo maps or SCS map. Streams that are shown on the USGS or SCS maps but do not have a name shall be listed as an unnamed tributary to the nearest named downstream receiving water body.

SW100440 River basin you are in: <http://h2o.enr.state.nc.us/basinwide/whichbasin.htm>

SW100450 Stream Index Numbers: <http://h2o.enr.state.nc.us/bims/Reports/reportsWB.html>

SW100460 Water Quality Classifications: <http://h2o.enr.state.nc.us/bims/Reports/reportsWB.html>

SW100470 Basinwide Water Quality Plans: <http://h2o.enr.state.nc.us/basinwide/index.html>

SW100480 303(d) List: <http://h2o.enr.state.nc.us/mtu/download.html>

SW100490 **CO-PERMIT APPLICATION STATUS INFORMATION (Complete this section only if co-permitting)**

SW100500 Do you co-permit with a permitted Phase I entity?

No

SW100510 If so, provide the name of that entity:

NA

SW100550 Other Entity

NA

SW100560 Have legal agreements been finalized between the co-permittees?

No

SW100570 **RELIANCE ON ANOTHER ENTITY TO SATISFY ONE OR MORE OF YOUR PERMIT OBLIGATIONS**

SW100580 Do you intend that another entity perform one or more of your permit obligations?

Yes

SW100590 If yes, identify each entity and the element they will be implementing

SW100600 Name of Entity
North Carolina Land Quality Section

SW100610 Element they will implement
Erosion and Sedimentation Control

SW100620 Contact Person
John L. Holley, PE, CPESC

SW100630 Contact Address
NCDENR, 3800 Barrett Dr., Suite 101, Raleigh, NC 27609

SW100640 Contact Telephone Number
(919) 791-4200

SW100650 Are legal agreements in place to establish responsibilities?
Yes

SW100660 **PERMITS AND CONSTRUCTION APPROVALS**

SW100700 State or NPDES Stormwater Permit Number (s) issued to the permittee
NCS000201
NCS000441
NC0025305
NC530000
SW8961201
SW8011020
SW5111001

SW100920 **MS4 CONTACT INFORMATION**

SW100930 Provide the following information for the person/position that will be responsible for day to day implementation and oversight of the stormwater program.

SW100940 Name
Sharon Myers

SW100950 Title
Environmental Compliance Officer

SW100960 Street Address
1120 Estes Dr. Extension

SW100970 PO Box
CB 1650

SW100980 City
Chapel Hill

SW100990 State
NC

SW101000 Zip
27599-1650

SW101010 Telephone
(919) 962-9752

SW101020 Fax
(919) 962-0227

SW101030 E-Mail
samyers@ehs.unc.edu

SW101040 "Permittee's Website"
ehs.unc.edu/environmental/stormwater

SW101050 **BMPs**

SW101060 Do you plan to add any new BMPs?

No

SW101070 Do you plan to amend any existing BMPs?

No

SW101080 If yes, please provide a BMP description, measurable goal, and implementation schedule for each new or amended BMP. If further space is needed, attach additional sheets.

Co-Permitting Information

SW101570 Contract Operations

SW101630 Does the Stormwater Management Program identify contract operations (i.e., Transit Authorities, Pesticide Application, Construction Projects, Street Washing, Maintenance of right-a-ways, GIS Mapping, Monitoring, Stream Restorations, Litter or Solid Waste Pickup, Recycling, Household Waste)?

Yes

Construction Site Stormwater Runoff Control

SW104190 **Construction Site Stormwater Runoff Control**

SW104200 Does the permittee rely on the NCDENR Division of Land Resources (DLR) Erosion and Sediment Control Program to comply with this minimum measure for private development? (If no, go to SW104220)

Yes

Comments: UNC-CH also reviews erosion and sedimentation permit applications and plans and conducts regular inspections of land disturbing activities to ensure that erosion and sedimentation control efforts are maintained and effective.

SW104210 If the permittee relies on the NCDENR Division of Land Resources (DLR) Erosion and Sediment Control Program to comply with this minimum measure for private development, than the NCDENR Division of Land Resources Erosion and Sediment Control Program effectively meets the requirements of the Construction Site Runoff Controls by permitting and controlling development activities disturbing one or more acres of land surface and those activities less than one acre that are part of a larger common plan of development.

SW104220 Does the permittee rely on a locally delegated program to meet the minimum measure for private development requirements? (If no, go to SW104300)

Not Applicable

SW104230 If the permittee relies on a local government to comply with this minimum measure, does the permittee conduct random inspections of local land disturbing activities that have a sediment and erosion control permit, issued by local government?

Not Applicable

SW104250 If the permittee relies on a local government to comply with this minimum measure, does the permittee report sites that are not in compliance with their sediment and erosion control permits to the local government?

Not Applicable

SW104260 If the permittee relies on a local government to comply with this minimum measure, does the permittee report unresolved concerns to the local government?

Not Applicable

SW104270 If the permittee relies on a local government to comply with this minimum measure, does the permittee maintain a record of unresolved concerns reported to the local government?

Not Applicable

SW104300 Does the permittee have a delegated program to meet the requirements of an Erosion and Sediment Control Program for private development? (If no go to SW104450)

Not Applicable

SW104310 Does the Stormwater Management Program summarize what best management practices will be used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, and the responsible person or position for implementation?

Yes

SW104320 Does the Stormwater Management Program describe the mechanism (ordinance or other regulatory mechanism) the permittee will use to require erosion and sediment controls at construction sites and why the permittee chose that mechanism?

Yes

SW104330 If permittee needs to develop this mechanism, the permittee's plan should describe the plan and a schedule to do so.

SW104340 Does the Permittee conduct site plan review(s), including the review of pre-construction site plans, which incorporate consideration of potential water quality impacts?

Yes

SW104350 The Stormwater Management Program must describe procedures and the rationale for how permittee will identify certain sites for site plan review, if not all plans are reviewed and describe the estimated number and percentage of sites that will have pre-construction site plans reviewed.

SW104360 Does the Stormwater Management Program describe the permittee's plan to ensure compliance with the permittee's erosion and sediment control regulatory mechanism, including the sanctions and enforcement mechanisms permittee will use to ensure compliance?

Yes

SW104370 The Stormwater Management Program must describe the permittee's procedures for when the permittee will use certain sanctions. Possible sanctions include non-monetary penalties (such as stop work orders), fines, bonding requirements, and/or permit denials for non-compliance.

SW104380 Does the Stormwater Management Program describe the permittee's procedures for site inspection and enforcement of control measures, including how the permittee will prioritize sites for inspection?

Yes

SW104430 Does the Stormwater Management Program require construction site operators to implement erosion and sediment control BMPs and to control construction site wastes that may cause adverse water quality impacts?

Yes

SW104440 Does the Stormwater Management Program require construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality?

Yes

SW104450 Does the permittee provide and promote a means for the public to notify the appropriate authorities of observed erosion and sedimentation problems?

Yes

SW104460 Consider coordinating this requirement with the permittee's public education program. Publicize the procedures and contact information. The procedures must lead directly to a site inspection or other timely follow-up action. The permittee may implement a plan promoting the existence of the NCDENR, Division of Land Resources "Stop Mud" hotline to meet the requirements of this paragraph.

SW104470 Staff Training and Certification

SW104480 The number of training and certification programs offered to staff.

1

SW104490 The number of trained staff inspectors.

1

SW104500 The number of certified staff inspectors.

Not a permit requirement

SW104510 The number of certified contractors by permittee.

Not a permit requirement

SW104520 Inspection and Enforcement

SW104530 The number of plans reviewed greater than one acre.

Not a permit requirement

SW104590 The number of enforcement actions or NOVs taken.

Not a permit requirement

Illicit Discharge Detection and Elimination

SW103190 Illicit Discharge Detection and Elimination

SW103200 Does the Stormwater Management Program summarize what best management practices will be used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, and the responsible person or position for implementation?

Yes

SW103210 Stormwater Map

SW103220 Has the permittee will developed or the in the process of developing a storm sewer map showing the location of all outfalls and the names and location of all receiving waters?

Yes

SW103260 Does stormwater mapping include drainage areas?

Yes

SW103270 Does stormwater mapping include receiving streams?

Yes

SW103280 Does stormwater infrastructure mapping include outfalls?

Yes

SW103290 Estimated or actual number of outfalls.

345

SW103300 Does stormwater infrastructure mapping include sewer pipes?

Not Applicable

Comments: Sewer system mapping is conducted by the Orange Water and Sewer Authority.

SW103310 Does stormwater infrastructure mapping include structures (e.g., detention ponds and other structural BMPs)?

Yes

SW103320 Estimated or actual number of structural BMPs?

228

SW103330 Percent of outfall mapping complete.

99

Comments: Mapping of outfalls in outlying areas that were recently added to the revised permit will begin in 2013.

SW103340 Does the Stormwater Management Program describe the mechanism (ordinance or other regulatory mechanism) the permittee will use to effectively prohibit illicit discharges into the MS4 and why the permittee chose that mechanism?

Yes

SW103350 Does the Stormwater Management Program describe the permittee's plan to ensure appropriate enforcement procedures and actions such that the permittee's illicit discharge ordinance (or other regulatory mechanism) is implemented?

Yes

SW103360 Does the Stormwater Management Program describe the permittee's plan to detect and address illicit discharges to the permittee's system, including discharges from illegal dumping and spills?

Yes

SW103370 The permittee must implement an inspection program to detect dry weather flows at system outfalls and, at a minimum, must address the following:

SW103380 Procedures for locating priority areas.

SW103390 Procedures for tracing the source of an illicit discharge, including the specific techniques permittee will use to detect the location of the source.

SW103400 Procedures for removing the source of the illicit discharge.

SW103410 Procedures for evaluation of the plan to detect and eliminate illicit discharges.

SW103420 Does the Stormwater Management Program address the following categories of non storm water discharges or flows (i.e., illicit discharges) only if permittee identify them as significant contributors of pollutants to the permitteenulls small MS4:

Yes

SW103430 landscape irrigation;

SW103440 water line flushing;

SW103450 diverted stream flows;

SW103460 uncontaminated groundwater infiltration;

SW103470 discharges from potable water sources;

SW103480 air conditioning condensate (commercial/residential);

SW103490 springs;

SW103500 footing drains;

SW103510 residential and charity car washing;

SW103520 dechlorinated swimming pool discharges;

SW103530 rising groundwaters;

SW103540 uncontaminated pumped groundwater;

SW103550 foundation drains;

SW103560 irrigation waters (does not include reclaimed water as described in 15A NCAC 2H .0200);

SW103570 water from crawl space pumps;

SW103580 lawn watering;

SW103590 flows from riparian habitats and wetlands;

SW103600 street wash water;

SW103610 flows from emergency fire fighting.

SW103620 The permittee may also develop a list of other similar occasional, incidental non-storm water discharges that will not be addressed as illicit discharges.

SW103630 These non-storm water discharges must not be reasonably expected (based on information available to the permittees) to be significant sources of pollutants to the Municipal Separate Storm Sewer System, because of either the nature of the discharges or conditions the permittee has established for allowing these discharges to the permittee's MS4 (e.g., activity with appropriate controls on frequency, proximity to sensitive waterbodies, BMPs).

SW103640 Does the Stormwater Management Program document local controls or conditions placed on discharges and a provision prohibiting any individual non-storm water discharge that is determined to be contributing significant amounts of pollutants to the permittee's MS4?

Yes

SW103650 In addition to conducting training for selected staff on detecting and reporting illicit discharges," does the Stormwater Management Program describe how the permittee plans to inform businesses and the general public of hazards associated with illegal discharges and improper disposal of waste?

Yes

SW103700 Does the Stormwater Management Program establish and publicize a reporting mechanism for the public to report illicit discharges?

Yes

SW103710 Does the Stormwater Management Program establish an illicit discharge management tracking system?

Yes

Comments: UNC-CH maintains an Oracle database for hotline calls and a GIS database for tracking locations of illicit discharges and the actions taken to remedy them.

SW103720 Does the Stormwater Management Program establish a stormwater incident response program?

Yes

Comments: UNC-CH operates its own emergency response team. Approximately 25 employees are active on the emergency response team. Team members are trained to take appropriate actions to prevent damage to campus water bodies.

SW103730 Does the Stormwater Management Program provide for an illicit discharge brochure, poster or other educational material development and distribution?

Yes

SW103740 Does the Stormwater Management Program provide for a septic system program in conjunction with the Health Department?

Not Applicable

Comments: This is not a permit requirement.

SW103750 Does the Stormwater Management Program provide street sweeping, inspecting and cleaning inlets and outfalls?

Yes

Comments: UNC-CH's Grounds Department provides street sweeping services for University roads and parking lots. The Grounds Department also inspects and cleans inlets and outfalls.

SW103760 Does the Stormwater Management Program establish procedures to coordinate efforts to eliminate illicit discharge cross connections between sanitary and storm sewers?

Yes

Comments: UNC-CH personnel inspect and sample dry weather flows in the campus stormwater system and refer flows suspected to be contaminated with sewage to either the Orange Water and Sewer Authority or UNC-CH's Plumbing Shop. UNC-CH has used GIS to identify likely areas for cross-connection.

SW103770 Does the Stormwater Management Program establish procedures to maintain the sanitary sewer system?

Not Applicable

Comments: The Orange Water and Sewer Authority maintains the sanitary sewer system.

SW103780 Does the Stormwater Management Program establish a Household Waste Recycling Program?

Not Applicable

Comments: The hazardous materials recycling program is for UNC-CH operations only.

SW103850 Identifying Illicit Connections

SW103860 The number of sites prioritized for inspection.

100

SW103870 The number of illicit connections reported by citizens.

0

SW103880 The number of illicit connections found.

0

SW103890 The number of illicit connections repaired/replaced.

0

SW103900 The number of illicit connection referrals.

0

SW103910 Illegal Dumping

SW103930 The number of illegal dumps reported by citizens.

21

SW103940 The number of penalties enforced upon the participants of illegal dumps.

0

SW103950 The number of illegal dump or sit-out clean-ups completed.

21

SW103970 Industrial or Business Connections

SW103980 The number of dry weather tests/inspections completed.

Not a permit requirement

SW103990 The number of high-risk connections prioritized.

Not a permit requirement

SW104000 The number of illicit connections reported by employees or businesses.

Not a permit requirement

SW104010 The number of illicit connections found.

Not a permit requirement

SW104020 The number of illicit connections repaired/replaced.

Not a permit requirement

SW104030 Recreational Sewage

SW104040 The number of pump-out stations.

	Not a permit requirement
SW104050	The number of no-discharge areas created.
	Not a permit requirement
SW104060	The number of new signs added to inform users of dumping policies and alternatives.
	Not a permit requirement
SW104070	The number of enforced cases of recreational dumping.
	Not a permit requirement
SW104080	The number of citizen complaints made reporting illegal action.
	Not a permit requirement
SW104090	Sanitary Sewer Overflows (SSO)
SW104100	The number of overflows reported.
	0
SW104110	The number of overflow causes that were identified during inspections.
	0
SW104120	The number of sites repaired.
	0
SW104130	Wastewater Connections to the Storm Drain System
SW104140	The number of rerouted connections.
	0
SW104150	The number of dry weather monitoring activities performed.
	457
SW104160	The number of unwarranted connections reported.
	0
SW104170	The number of unwarranted connections found.
	0
SW104180	The number of unwarranted connections repaired/replaced.
	0

Information specifically regarding the permit

SW101460 Permitting Information

SW101490 Does the Stormwater Management Program provide an organizational chart that shows where the responsible parties fit into the structure of the permittee's organization?
Yes

Ordinance, Legal or Regulatory Authority

SW107050 Ordinance, Legal or Regulatory Authority

SW107060 Illicit Discharge Detection & Elimination
Adopted

SW107070 Erosion & Sediment Control
Not Applicable

SW107080 Post-Development Stormwater Management
Adopted

SW107090 Stormwater Ordinance

Not Applicable

SW107100 Unified Development Ordinance

Not Applicable

SW107110 Flood Damage Protection Ordinance

Not Applicable

SW107120 Other:

Not Applicable

SW107130 Other:

Not Applicable

SW107140 Other:

Not Applicable

Pollution Prevention/Good Housekeeping for Municipal Operations

SW105750 Pollution Prevention/Good Housekeeping

SW105760 Does the Stormwater Management Program summarize what best management practices will be used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, and the responsible person or position for implementation?

Yes

SW105770 Does the Stormwater Management Program list the permittee's municipal operations that are impacted by this operation and maintenance program?

Yes

SW105780 The permittee must also include a list of industrial facilities the permittee owns or operates that are subject to NPDES Stormwater General Permits or individual NPDES permits for discharges of storm water associated with industrial activity that ultimately discharge to the permittee's MS4, including the permit number and certificate of coverage number for each facility.

SW105790 Municipal Operations include:

SW105800 Transfer Station

No

SW105810 Fleet Maintenance

No

SW105820 Airport

No

SW105830 Animal Shelters

No

SW105840 Waste Water Treatment Plan

No

SW105850 Water Plants

No

SW105860 Construction Debris Site

No

SW105870 Transit Authority

No

SW105880 Public Works Operations

No

SW105890 Prisons

No

SW105900 Emergency Service Facilities

No

SW105910 Fire Stations

No

SW105920 Landfills

No

SW105930 Schools

No

SW105940 Parks

No

SW105950 Waste Recycling Centers

No

SW105960 Vehicle Maintenance Operations

Yes

Comments: The UNC-CH Service Station is on contiguous property with its permitted RCRA TSD facility and is included under Permit No. NCS000201.

SW105970 Vehicle Wash Operations

No

SW105980 Pump Stations or Lift Stations

No

SW105990 Other:

Permit Nos. NCS000201 and NC0025305

Comments: UNC-CH's permitted RCRA TSD Facility has a Phase I NPDES permit. This permit also encompasses the UNC-CH Service Station due to its location on contiguous property. UNC-CH's Co-Generation Facility also has an NPDES permit.

SW106000 In addition to conducting staff training on stormwater pollution prevention and good housekeeping procedures, does the Stormwater Management Program describe any government employee training program the permittee will use to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance?

Yes

SW106010 Does the Stormwater Management Program describe any existing, available training materials the permittee plans to use?

Yes

SW106030 Does the Stormwater Management Program describe maintenance activities, maintenance schedules, and long-term inspection procedures for controls to reduce floatables and other pollutants to the permittee's MS4?

Yes

SW106050 Does the Stormwater Management Program describe the permittee's procedures for the proper disposal of waste removed from the permittee's MS4 and the permittee's municipal operations, including dredge spoil, accumulated sediments, floatables, and other debris?

Yes

SW106110 Industrial Activities

SW106120 Did the permittee conduct annual review of the industrial activities with a Phase I NPDES stormwater permit owned and operated by the permittee?

Yes

SW106130 Did the permittee review the Stormwater Pollution Prevention Plan, the timeliness of any monitoring reports required by the Phase I permit, and the results of inspections and subsequent follow-up actions at the facilities.

Yes

SW106160 Does the permittee have a Used Oil Recycling Program?

Yes

SW106170 Does the permittee have a street sweeping program?

Yes

SW106180 Does the permittee have a program to clean catch basins, storm lines, and ditches?

Yes

SW106190 Does the permittee review fertilizer and pesticide use programs?

Yes

SW106200 Does the permittee have spill prevention plans at city facilities?

Yes

SW106210 City Facilities Inspections

SW106220 Does the permittee inspect vehicle washing fueling, storage and maintenance areas?

Yes

SW106230 Does the permittee inspect material storage areas (i.e., storage areas for sand, salt, fertilizers, pesticides and other chemicals)?

Yes

SW106240 Does the permittee inspect stormwater outfalls?

Yes

SW106250 Does the permittee inspect culverts?

Yes

SW106260 Does the permittee inspect swales/ditches?

Yes

SW106270 Does the permittee inspect catch basins, inlets, and grates?

Yes

SW106280 Does the permittee inspect MS4 pipes?

Yes

SW106290 Does the permittee inspect solid and hazardous waste management facilities and recycling centers?

Yes

SW106300 Does the permittee inspect animal shelters and pounds?

Not Applicable

SW106310 Does the permittee inspect parking lots?

Yes

SW106320 Does the permittee inspect parks and open spaces?

Yes

SW106330 The number of inspections conducted.

5045

Comments: Outfall, culvert, swale/ditch, catch basin, inlet, grate, parking lot, etc. inspections were conducted.

SW106400 Automobile Maintenance

SW106410 The number of employees trained in preventing pollution from automobile maintenance activities.

1090

Comments: Preventing pollution from automobile maintenance activities is included in the overall Stormwater Awareness Training that is presented to UNC-CH Facilities Services employees.

SW106420 The number of sites rewarded as being a "clean site" under a rewards program.

Not a permit requirement

SW106430 The number of spills reported.

0

SW106440 The number of educational materials distributed at garages, auto shops, and other automobile-related businesses.

5

SW106450 Hazardous Materials Storage

SW106460 The total number of storage facilities equipped to store hazardous materials.

1

Comments: UNC-CH operates a permitted Treatment, Storage and Disposal Facility under RCRA permit number NCD982093783.

SW106470 The number of regularly inspected storage units.

1

SW106480 The number of employees trained in hazardous material storage and maintenance.

9

SW106490 Illegal Dumping

SW106500 The number of "no dumping" signs posted.

0

SW106510 The number of educational materials distributed.

0

SW106520 The number of reports of illegal dumping received.

0

SW106530 The number of dump sites and/or illegal sit-outs cleaned up.

0

SW106540 The number of sites improved to eliminate as target dumping spots.

0

SW106550 The number of enforcement actions pertaining to illegal dumping.

0

SW106560 Landscape and Lawn Care, and Pest Control

SW106570 The number of stores/gardens participating in education programs.

Not a permit requirement

SW106580 The number of residents trained by the permittee in safe landscaping, lawn care, and pest management techniques.

Not a permit requirement

SW106590 The number of classes/seminars offered by the permittee in landscaping and lawn care.

Not a permit requirement

SW106610 The number of municipal employees trained in integrated pest management.

47

SW106620 Parking Lot and Street Cleaning

SW106630 The number of parking lots.

150

SW106640 The number of scheduled parking lot and/or road cleanings.

466

SW106650 Pet Waste

SW106660 The number of dog parks.

0

SW106670 The number of "pooper-scooper" stations installed

6

Comments: This is the number of existing stations.

SW106680 The number of educational materials distributed.

0

Comments: No new pet waste educational materials were distributed this year.

SW106690 Road Salt Application and Storage

SW106700 The number of storage facilities included in a regular inspection and maintenance program.

1

SW106710 The number of employees trained in road salt application.

10

SW106720 The quantity of salt applied to roadways (in tons).

10

Comments: 1,000 gallons of brine was also applied to road ways.

SW106730 The quantity of alternative products used (in tons).

0

SW106800 Spill Response and Prevention

SW106810 The number of leak detection devices installed at municipal facilities.

78

Comments: This an approximate number of leak detection devices installed at UNC-CH facilities.

SW106820 The number of preventative maintenance procedures performed on tanks, valves, pumps, pipes, and other equipment.

6700

Comments: This is an estimated number based on the number of emergency generators and transformers at UNC-CH. Emergency generator tanks receive preventative maintenance once per week. Transformers receive preventative maintenance once per year.

SW106830 The number of personnel trained in spill response.

25

SW106840 The number of regularly inspected high-risk facilities.

3

Comments: This includes the large fuel storage facility at the Cogeneration Facility, the Manning Drive Steam Plant and the UNC Health Care Generator Fuel Storage Area.

SW106850 The number of educational materials distributed to municipal employees.

600

Comments: Educational materials were distributed during Stormwater Awareness Training.

SW106860 Storm Drain System Cleaning

SW106870 The number of outfalls cleaned regularly.

390

SW106880 The number of storm drains cleaned regularly.

4655

SW106890 The amount of trash, sediment, and other pollutants removed during cleaning (in tons).

15

SW106900 Used Oil Recycling

SW106910 The number of gallons of used oil collected from municipal operations.

5000

SW106920 The number of recycling facilities that collect oil from municipal operations.

5

SW106930 The number of educational materials distributed to municipal employees.

0

SW106940 Vehicle Washing

SW106950 The number of educational materials distributed to municipal employees.

SW106960 The number of designated municipal vehicle washing areas.

1

Post-Construction Storm Water Management in New Development and Redevelopment

SW104890 Post-Construction Storm Water Management in New Development and Redevelopment

SW104900 Does the Stormwater Management Plan summarize what best management practices will be used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, and the responsible person or position for implementation?

Yes

SW104910 Does the Stormwater Management Program describe how the permittee will develop an ordinance or other regulatory mechanism to implement and enforce a program to address post construction runoff from new development and redevelopment projects?

Yes

Comments: UNC-CH implements the post-construction portion of its stormwater program in its design specifications.

SW104920 The permittee's ordinances, and subsequent modifications, will be reviewed and approved by DWQ prior to implementation. The approval process will establish subsequent timeframes when DWQ will review performance under the ordinance(s). The reviews will occur, at a minimum, every five years. Regulated public entities without ordinance making powers must demonstrate similar actions taken in their post construction stormwater management program to meet the minimum measure requirements.

SW104930 Does the Stormwater Management Program describe how the permittee will ensure the long-term operation and maintenance (O&M) of BMPs?

Yes

Comments: UNC-CH has an inspection, operation and maintenance program for BMPs.

SW104940 Options to help ensure that future O&M responsibilities are clearly identified include an agreement between the permittee and another party, such as the post-development landowners or regional authorities.

Not Applicable

SW105000 Does the Stormwater Management Program explain how the permittee will control the sources of fecal coliform to the maximum extent practicable?

Not Applicable

SW105010 Do new development and redevelopment codes allow for the following:

SW105020 Bioretention basins?

Yes

SW105030 Alternative pavers?

Yes

SW105040 Buffer zones?

Yes

SW105050 Dry ponds?

Yes

SW105060 Wet ponds?

Yes

SW105070 Alternatives to curb and gutter?

Yes

SW105080 Grass swales?

Yes

SW105090 Grassed filter strips?

Yes

SW105100 Green parking lots?

Yes

SW105110 In-line storage systems?

Yes

SW105120 Infiltration basins?

Yes

SW105130 Infiltration trenches?

Yes

SW105140 Manufactured products installed in storm water inlets?

Yes

SW105150 Developments and redevelopments that use narrow streets?

No

Root Cause: Existing policies conflict with stormwater management initiatives

Plan of Action: The Towns of Carrboro and Chapel Hill and the North Carolina Department of Transportation would all need to change their minimum width requirements for public roads. UNC-CH can construct narrow private roads.

SW105160 On-lot treatment?

Yes

SW105170 Open space design?

Yes

SW105180 Sand and organic filters?

Yes

SW105190 Porous pavement?

Yes

SW105200 Stormwater wetlands?

Yes

SW105210 Urban forestry?

Yes

SW105220 Does the Stormwater Management Program, in coordination with the County Health Department, ensure proper operation and maintenance of on-site wastewater treatment systems for domestic wastewater?

Not Applicable

SW105230 Does the Stormwater Management Program provide training for staff and developers/builders?

Yes

SW105260 BMP Inspection and maintenance

SW105270 Are annual inspection reports required of permitted structural BMPs performed by a qualified professional?

Yes

SW105280 The number of BMP inspections and/or maintenance activities.

487

Comments: UNC-CH stormwater engineers performed 76 inspections of BMPs during construction and 61 annual inspections of existing BMPs. The UNC-CH Grounds Department conducted 350 BMP inspections as part of the on-going preventative maintenance program for BMPs.

SW105290 The number of problems that were identified and remedied.

4 identified, 2 remedied

Comments: Four problems were identified and two of these problems have been remedied. Permanent solutions have been selected for the remaining two problems.

SW105310 The number of development/redevelopment projects regulated for post-construction stormwater control.

18

SW105550 Evaluation of Post-construction Stormwater Management Program Measures

SW105560 Model Practices: For those areas within the jurisdictional area of the permittee that are not subject to the post-construction stormwater management provisions of another existing state stormwater management program, does the permittee's Post-construction Stormwater Management Program equal or exceed the stormwater management and water quality protection provided by the following model practices:

SW105570 Does the permittee issue local stormwater management permits to new development or redevelopment projects as either a low density project or a high density project?

Not Applicable

SW105580 Do projects permitted as a low density projects meet the following criteria:

Not Applicable

SW105590 No more than two dwelling units per acre or 24% built-upon area; and,

SW105600 Use of vegetated conveyances to the maximum extent practicable?

SW105610 Are projects permitted as high density projects meet the following requirements:

Yes

SW105620 The stormwater control measures control and treat the difference between the pre-development and post-development conditions for the 1-year 24-hour storm. Runoff volume draw-down time must be a minimum of 24 hours, but not more than 120 hours;

SW105630 All structural stormwater treatment systems are designed to achieve 85% average annual removal of total suspended solids; and

SW105640 Stormwater management measures comply with the General Engineering Design Criteria For All Projects requirements listed in 15A NCAC 2H .1008(c);

SW105650 Are deed restrictions and/or protective covenants required by the locally issued permit and incorporated by the development to ensure that subsequent development activities maintain the development (or redevelopment) consistent with the approved plans?

Not Applicable

SW105660 Are all built-upon areas at least 30 feet landward of perennial and intermittent surface waters?

Yes

SW105670 Watershed Protection Plans: Has the Permittee developed, adopted, and implemented a comprehensive watershed protection plan to meet part, or all, of the requirements for post-construction stormwater management?

Not Applicable

Comments: Local governments operate under a comprehensive watershed protection plan. UNC-CH building projects are reviewed by local governments.

SW105680 Areas within the jurisdictional area of the permittee that are already subject to the existing state stormwater management programs are deemed compliant with the post-construction stormwater management model practices identified in (a). The programs are: the Water Supply Watershed protection programs for WS-I – WS-IV waters, the HQW and ORW waters management strategies, the Neuse River Basin Nutrient Sensitive Waters (NSW) Management Strategy, the Tar-Pamlico River Basin Nutrient NSW Strategy, and the Randleman Lake Water Supply Watershed program.

SW105690 A regulated entity may develop its own comprehensive watershed plan, use the model ordinance developed by the Commission, design its own post-construction practices based on the Division's guidance and engineering standards for best management practices, or incorporate the post-construction model practices to satisfy, in whole or in part, the requirements for post-construction stormwater management.

SW105700 Additional Requirements for Trout Waters: Has the permittee developed, adopted, and implemented an ordinance (or similar regulatory mechanism) to ensure that the best management practices selected do not result in a sustained increase in the receiving water temperature?

Not Applicable

SW105710 Additional Requirements for Nutrient Sensitive Waters

SW105720 Has the permittee developed, adopted, and implemented an ordinance (or similar regulatory mechanism) to ensure that the best management practices for reducing nutrient loading is selected?

Not Applicable

SW105730 Has the permittee developed and included a nutrient application (fertilizer and organic nutrients) management program in the Post-construction Stormwater Management Program?

Yes

SW105740 In areas where the Environmental Management Commission has approved a Nutrient Sensitive Water Urban Stormwater Management Program, the provisions of that program fulfill the nutrient loading reduction requirement.

Program Accomplishments

SW106970 **Staff and Capital Improvement Projects**

SW106980 The number of staffed stormwater management position(s).

6

SW106990 The number of new stormwater management position(s) created or staffed for the reporting year.

0

SW107000 Total annual budget (excluding Capital Improvement Projects) for the NPDES stormwater management program for the reporting year.

600,000

SW107010 The number of Capital Improvement Projects planned.

0

SW107020 The number of Capital Improvement Projects active.

0

SW107030 The number of Capital Improvement Projects completed.

0

SW107040 Total annual budget for Capital Improvement Projects for the reporting year.

0

Public Education and Outreach

SW101690 Public Education and Outreach

SW101700 Does the Stormwater Management Program summarize what best management practices will be used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, and the responsible person or position for implementation?

	Yes
SW101710	Does the Stormwater Management Program identify the target audiences likely to have significant storm water impacts (including commercial, industrial and institutional entities) and why those target audiences were selected?
	Yes
SW101720	Does the Stormwater Management Program identify what target pollutant sources the permittee's public education program is designed to address and why those sources are an issue?
	Yes
SW101730	Does the Stormwater Management Program describe the permittee's outreach program (i.e., how the permittee plans to inform individuals and households about the steps they can take to reduce storm water pollution and how the permittee plans to inform individuals and groups on how to become involved in the storm water program?
	Yes
SW101750	Has the permittee develop general stormwater educational material to appropriate target groups? Instead of developing its own materials, the permittee may rely on state-supplied Public Education and Outreach materials, as available, when implementing its own program.
	Yes
SW101760	Does general stormwater educational material include information on the following topics:
SW101770	Household Hazardous Waste
	Yes Comments: UNC-CH trains laboratory personnel and maintenance departments on proper disposal of hazardous materials. Approximately 5,400 laboratory workers have been trained. UNC-CH operates a permitted hazardous waste treatment, storage and disposal facility.
SW101780	Pet Waste
	Yes Comments: UNC-CH has placed education signage about pet waste management in the Carolina North Forest kiosks at trail heads and along trails at the North Carolina Botanical Garden. We have also provided pet waste collection bags and pet waste disposal stations at Carolina North Forest kiosks and at the North Carolina Botanical Gardens.
SW101790	Septic Systems
	Yes Comments: UNC-CH septic systems are maintained by plumbers who are employed by UNC-CH Facilities Services.
SW101800	Lawn and Gardening
	Yes
SW101810	Vehicle Washing
	Yes
SW101820	Erosion
	Yes
SW101830	Stream Buffers
	Yes
SW101840	Flooding
	Not Applicable
SW101850	Litter
	Yes
SW101860	List any additional topics not identified above.
	No additional topics identified.
SW101870	Does the permittee's outreach program include:
SW101880	Distributing printed educational material to general public through utility mail outs?
	Not Applicable

- SW101890 Distributing printed educational material to general public through special events (i.e., Information booth at festivals and fairs)?
Yes
Comments: UNC-CH distributes education materials to University employees during Stormwater Awareness Training and at Sustainability Day events.
- SW101900 Distributing printed educational material to business / industry?
Not Applicable
- SW101910 Presentations to local community groups?
Not Applicable
- SW101920 Stormwater programs/presentations for elementary or middle schools?
Not Applicable
- SW101930 Local TV or radio spots?
Not Applicable
- SW101940 Print Media - Ads / Articles / Newsletters?
Yes
- SW101950 Posters?
Yes
- SW101960 Storm drain stenciling
Yes
- SW101970 Other environmental education programs (i.e., Designate a "Keep SW Clean" month)?
Yes
- SW101980 Workshops
Not Applicable
- SW101990 Stream basin signage?
Not Applicable
- SW102000 Has the permittee developed an internet web site for newsletter articles on stormwater, information on water quality, stormwater projects and activities, and ways to contact stormwater management program staff?
Yes
Comments: ehs.unc.edu/environmental/stormwater
- SW102020 Does the permittee maintain an internet web site for newsletter articles on stormwater, information on water quality, stormwater projects and activities, and ways to contact stormwater management program staff?
Yes
Comments: ehs.unc.edu/environmental/stormwater
- SW102060 Classroom Outreach
- SW102070 The number of educational materials distributed to schools.
Not a permit requirement
- SW102080 The number of schools that participate in municipal-sponsored storm water workshops or activities.
Not a permit requirement
- SW102090 The number of students that participate in municipal-sponsored storm water workshops or activities.
Not a permit requirement
- SW102100 The number of workshops held for teachers.
Not a permit requirement
- SW102110 The number of certificates or other rewards given out to schools, classes, or students participating in storm water education.
Not a permit requirement
- SW102120 The number of students receiving storm water education as a regular part of the school curriculum.
approximately 120

Comments: This is an estimated number. Several UNC-CH faculty members actively conduct water quality and stormwater related research. Faculty members work with both undergraduates and graduate students. Energy Services employees participated in courses PLAN 752 and ENST 200, which included stormwater content. An Institute for the Environment Capstone Class (ENST 698) completed a project titled "Stormwater Management at the University of North Carolina at Chapel Hill's Outdoor Education Center".

SW102130 Displays, Signs, Presentations, Welcome Packets, and Pamphlets

SW102150 The number of stormwater related displays at special events or meetings.

2

SW102160 The number of people at events who saw the display or took a pamphlet/booklet.

1000

Comments: This is an estimate of the number of people passing by the UNC-CH Stormwater booth or who took educational information at these events.

SW102170 Number of new homeowner welcome packets containing storm-water-related information.

Not a permit requirement

SW102180 The number of signs and billboards with stormwater related messages.

5

Comments: UNC-CH has installed educational signage at two pervious parking lots, two cisterns and an infiltration bed.

SW102190 The number of stormwater related presentations at special events or meetings.

4

SW102200 Commercial Outreach

SW102210 The number of educational materials that were distributed to business owners and operators.

Not a permit requirement

SW102220 The number of businesses trained under the stormwater program.

Not a permit requirement

SW102310 Pet Waste Management

SW102320 The number of "clean up after your pet" signs posted in parks and neighborhoods.

5

Comments: Signs are posted at trail head kiosks in the Carolina North Forest and at the North Carolina Botanical Garden.

SW102330 The number of dog-walking designated areas in parks.

Not a permit requirement

SW102340 The number of posters/brochures put up in pet supply stores.

Not a permit requirement

SW102350 The number of educational materials given out to pet owners.

Not a permit requirement

SW102360 Promotional Giveaways

SW102370 The number of items given out.

230

Comments: Promotional materials were given away at Stormwater Awareness Training and at special campus events.

SW102380 The number of events attended (to give out items).

2

SW102390 The number of partnerships for promotions (radio, TV, Businesses).

Not a permit requirement

SW102400 Proper Disposal of Household Hazardous Waste

SW102410 The number of household hazardous waste curbside pickup days.

Not a permit requirement

SW102420 The number of educational materials distributed to homeowners.

Not a permit requirement

SW102430 The number of partnerships established with businesses.

Not a permit requirement

SW102440 Outreach Programs to Minority and Disadvantaged

SW102450 The number of brochures/posters created in non-English languages.

Not a permit requirement

SW102460 The number of educational materials distributed in non-English languages.

Not a permit requirement

SW102470 The number of partnerships established with minority organizations.

Not a permit requirement

SW102480 The number of educational materials distributed to low-income neighborhoods.

Not a permit requirement

SW102490 Attendance at workshops or public meetings held in low-income or minority neighborhoods.

Not a permit requirement

SW102540 Using the Media

SW102550 The number of public service announcements made on radio and TV.

Not a permit requirement

SW102560 The number of stormwater related press releases/advertising.

1

SW102570 The number of stormwater related articles published.

0

SW102580 Water Conservation for Home Owners

SW102590 The number of partnerships established with local water utilities.

Not a permit requirement

SW102600 The number of water conservation or stormwater related utility inserts that are distributed with utility bills.

Not a permit requirement

SW102610 A survey of homeowners about their water conservation behavior before and after the message is delivered.

Not a permit requirement

Public Involvement and Participation

SW102620 Public Involvement and Participation

SW102630 Does the Stormwater Management Program summarize what best management practices will be used, the frequency of the BMP, the measurable goals for each BMP, the implementation schedule, and the responsible person or position for implementation?

Yes

SW102640 Does the Stormwater Management Program identify the target audiences of the permitteenu public involvement program, including a description of the types of ethnic and economic groups engaged?

Yes

Comments: The audiences that UNC-CH targets are described in the permit application and include students, faculty, staff and contractors.

SW102650 Permittee are encouraged to actively involve all potentially affected stakeholder groups, including commercial and industrial businesses, trade associations, environmental groups, homeowners associations, and educational organizations, among others.

SW102660 Does the Stormwater Management Program describe how the permittee will involve the public in the development and implementation of the permittee's storm water management program and the types of public involvement activities included in the permittee's program that the permittee plans to use to educate local community groups?

Yes

SW102670 Has the permittee provided for the means to involve the public in the development and implementation of the permittee's storm water management program through:

SW102680 Public Hearings, stakeholder meetings, or other meetings?

Not Applicable

SW102690 A Stormwater Steering Committee (or similar advisory group)?

Not Applicable

SW102700 Stream clean-up events?

Yes

SW102710 Adopt-a-stream, Adopt-a-drain, Adopt-a-highway or Adopt-a-trail program?

Yes

SW102720 Reforestation programs or wetland planting programs?

Not Applicable

SW102730 A stormwater hotline?

Yes

SW102740 Volunteer monitoring programs?

Not Applicable

SW102750 Storm drain stenciling?

Yes

SW102760 Encourage neighborhood coordinators to become active in the program?

Not Applicable

SW102770 Regional workshops?

Not Applicable

SW102780 Telephone/Web/Mall surveys?

Not Applicable

SW102790 Working with citizen volunteers willing to educate others about the program?

Not Applicable

SW102830 Adopt-A-Stream Program

SW102840 The number of participants in Adopt-A-Stream, Adopt-a-drain, Adopt-a-highway or Adopt-a-trail programs.

approximately 9

Comments: An Adopt-A-Stream clean-up did not occur in the last permit year.

SW102850 The quantity of trash and debris removed by Adopt-A-Stream, Adopt-a-drain, Adopt-a-highway or Adopt-a-trail volunteers (in tons).

0

SW102860 Surveys

SW102870 The number of citizens solicited to complete surveys.

Not a permit requirement

SW102880 The number of completed surveys.

Not a permit requirement

SW102890 Hotlines

SW102900 The number of calls received by a hotline(s).

18

SW102910 The number of problems/incidents remedied as a result of hotline calls.

18

SW102920 Reforestation Programs

SW102930 The number of volunteer tree planters.

Not a permit requirement

SW102940 The number of trees planted.

Not a permit requirement

SW102950 The number of acres planted with trees.

Not a permit requirement

SW102960 Public Hearings, stakeholder meetings, or other meetings

SW102970 The number of meetings held.

4

Comments: Four meetings of the University Safety and Security Committee are held each year.

SW102980 The number of attendees.

49

Comments: Approximately 12 people attended each meeting of the University Safety and Security Committee.

SW102990 The number of actions taken as a result of stakeholder meetings.

0

SW103000 Storm Drain Stenciling

SW103010 The percent of drains stenciled.

50

Comments: Additional drains are discovered and marked each year. Some drain markers are destroyed each year and are replaced. Also, in the revised permit three additional University-owned facilities have been added to the permit area, and these areas now need to have their storm drains marked.

SW103020 The number of stenciling volunteers.

1

SW103030 The number of drains stenciled.

113 in the past permit year

SW103040 Stream Cleanup

SW103050 The number of stream cleanups.

2

SW103060 The number of cleanup participants.

14

SW103070 The quantity of waste collected as a result of cleanup efforts (in tons).

0.10

Comments: This is an estimated weight.

SW103080 The number of stream miles cleaned.

1

SW103090 Volunteer Monitoring

SW103100 The number of volunteers participating in monitoring programs.

Not a permit requirement

SW103110 The frequency of monitoring in the watershed (D-Daily, W-Weekly, B-Bimonthly, M-Monthly, Q-Quarterly and A-annually).

Not a permit requirement

SW103120 The number of volunteer monitoring stations established in the watershed.

Not a permit requirement

SW103130 The number of volunteer monitoring training sessions held.

Not a permit requirement

SW103140 The number of actions that were taken as a result of the monitoring data -collected by volunteers.

Not a permit requirement

SW103150 Wetland Plantings

SW103160 The acres of land planted.

0.10

SW103170 The number of volunteers that participated in planting.

Not a permit requirement

SW103180 The number of planting events held.

Not a permit requirement