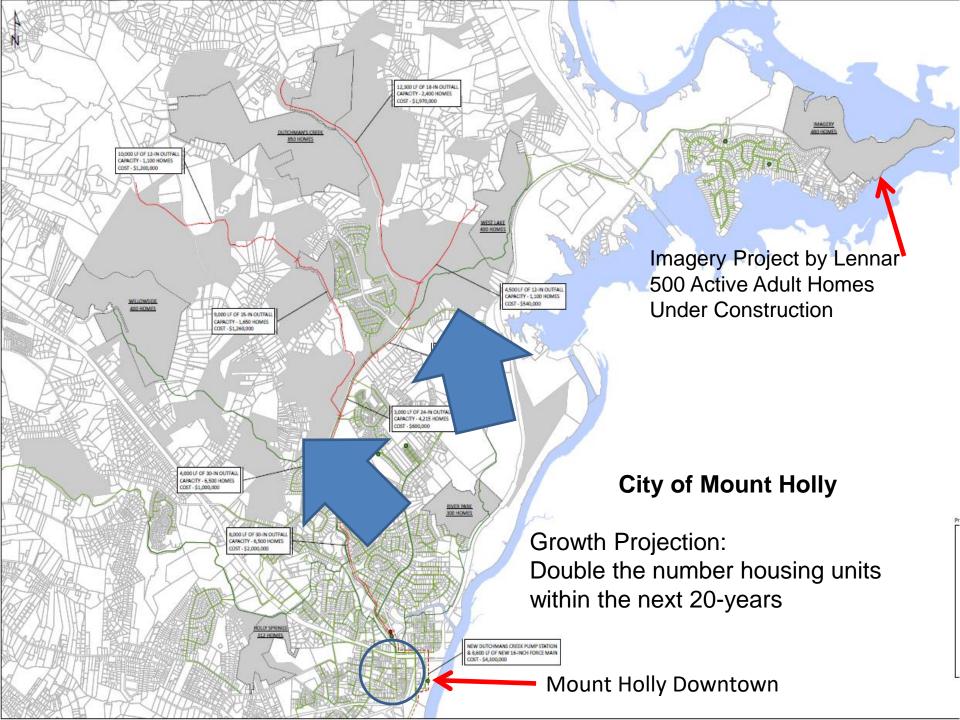


City Of Mount Holly

- Mount Holly received NPDES Permit on July1, 2005
- Receiving waters:
 Taylor's Creek,
 Fites Creek,
 Dutchman's Creek,
 Stanley Creek,
 South Stanley Creek
 within the Catawba River Basin





Stormwater Fee

2.50 / ERU (1 ERU = 5,000 sf impervious surface

FY '19 - '20 Budget

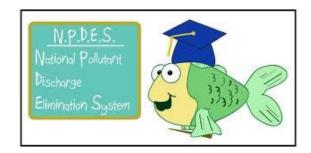
\$220,000

Staff, professional fees, maintenance programs, drainage repairs, training, participation in The Regional Stormwater Partnership of the Carolinas,



6 minimum control measures:

- 1. Public Education
- 2. Public Participation
- 3. Illicit discharge & elimination
- 4. Construction site runoff control
- 5. Post construction stormwater control
- 6. Pollution Prevention / Good Housekeeping





Mount Holly recently completed a new Public Works, Garage, and storage facility

The new North Fire Station had a typical detention basin to control stormwater.

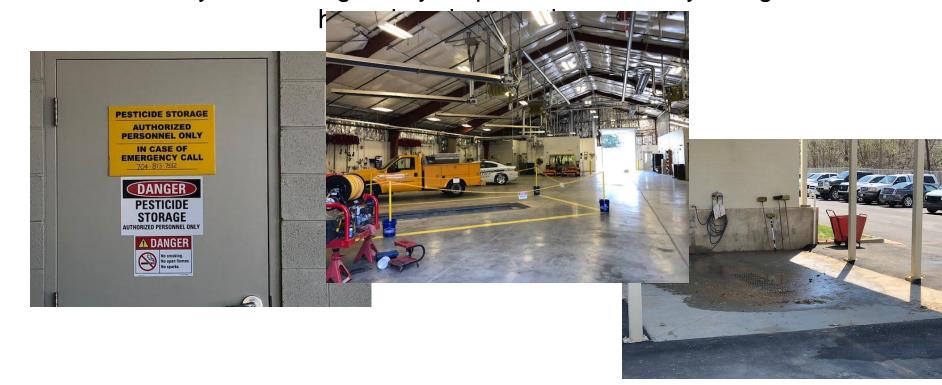


The PW Facility used a combination of an infiltration trench and a level spreader

Municipal Facilities O & M Program – Mount Holly's Facilities Management Group has a detailed operation and maintenance program for all municipal buildings.

WTP and WWTP have their own operation and maintenance programs with standard operating procedures

Mount Holly retains the services of an outside training consultant to train City staff on regulatory responsibilities, safety and good



As the storm water flows over hard surfaces, it picks up anything in its path-oil, dirt, litter, leaves. As a result, storm water runoff often contains pollution levels that exceed acceptable health and water quality levels. Unfortunately, all this storm water pollution ends up in our



Fertilizers and herbicides should be applied in moderation Excess amounts can be carried away by storm water, end up in water bodies and increase the amount of nitrates and phosphates in the water.

Oils and grease poured into a storm drain can reduce the drainage system's capacity. When it enters a water body, it blocks sunlight and decreases the oxygen which is needed by underwater plants and animals.

Soaps and detergents that enter into the storm drain system and go into water bodies coat fish gills and can suffocate fish and other aquatic animals.

Yard waste can contain fertilizers and herbicides. Leaves can clog storm drains and can result in standing water and flooding.

Pet waste contains dangerous bacteria and high levels of nitrates and phosphates. This can have negative effects on plant

and animal life in our water bodies, but also increases bacteria (E. coli) levels in water making fishing and swimming dangerous.





- Pick up trash on the ground even if it is not yours. By doing so, you are preventing it from entering into the storm drain system.
- Plant a tree-it helps reduce storm water runoff. Trees that are native to NC are easier to maintain and require less fertilizer.



- Don't pour grease and oils into a storm drain.
- · ALWAYS pick up after your pet.
- Allow grass clippings to decompose naturally on the lawn, it fertilizes the lawn and helps reduce clogged storm drains. You can also compost your clippings and leaves.
- Recycle or properly dispose of chemicals and automobile fluids and oils.
- Wash vehicles and machinery over your lawn or at a commercial carwash and not over paved surfaces.

City's
 Stormwater
 Brochure
 outlining Good
 Housekeeping
 Practices

STORMWATER PRIORITIZATION WORKSHEET PROJECT NAME: Priority A RIGHT-OF-WAY: STREET FLOODING SYSTEM IMPROVEMENT W/NO EFFECT ON WQ PIPE BLOWOUTS NEGLIGIBLE RISK DRAINAGE STRUCTURE FAILURE MISSING GRATES/COVERS STREET FAILURE/SINKHOLE SIDEWALK/DRIVEWAY FAILURE DITCH/PIPE BLOCKAGE PRIVATE PROPERTY (WITH direct R/W RUNOFF): = IMMINENT (adjacent public system failure contributes to private property issue (x2 NON-RESIDENTIAL WITH ELECTRICITY DRAINAGE FEATURE FAILURE WITHIN 10' OF HOUSE NON REPAIR Priority B RIGHT-OF-WAY: IMMINENT STRUCTURE FAILURE HEADWALL DAMAGE SYSTEM IMPROVEMENT WILL HELP WQ FAILED/ NO SYSTEM HIGH (x3) PRIVATE PROPERTY (WITH direct R/W RUNOFF): (adjacent public system failure contributes to private property issue) CRAWLSPACE/BASEMENT FLOODING Priority C RIGHT-OF-WAY: PIPE/DITCH SEDIMENTATION DEBRIS IN DITCH DRAINAGE STRUCTURE MINOR DAMAGE DITCH EROSION DNQ (does not qualify) PRIORITY RANK private property to private property runoff seepage in basements/crawlspaces CATEGORY SCORE yard flooding standing water downspouts private drainage systems lack of private drainage systems REQUEST DATE

City of Mount Holly is an old mill town which developed as mill's came and went.

Mount Holly's Stormwater Committee and Staff have a worksheet to prioritize existing problems / complaints/ issues.

This is important with the limited financial resources devoted to stormwater

Mount Holly has over 36 miles of ditch section roads that over the years have not been maintained:

Clogged driveway culverts
Filled in swales
Undersized driveway culverts





Roadside swale maintenance program includes reworking swales and replacing culverts if needed.

Unintended Consequences an Issue

Regulations for New Developments within the City promotes

Design creativity based on site criteria



Vegetative Buffers Required

100-ft. along Mountain Island Lake

50-ft along each bank of a perennial stream located in a critical area

30-ft. along each bank of a perennial stream located within the watershed overlay district as per Zoning Map



Stormwater discharge from public right of way infrastructure includes a plunge pool and rip rap swales to dissipate velocity, spread flow, and minimize or eliminate erosion



Mount Holly constructed a stormwater wetland to manage the flow from the City's primary park area before discharging into the stream



Requiring structural stormwater facilities in new developments is becoming the norm.

We now have to focus on the long term maintenance and operation of each facility

Enforcement is the next significant issue to be addressed by local governments