Eco Stream Conference: Asheville, NC 2018

Setting the Stage (public buy in) Educating the general stake holders

David Woodie, PE, CPSWQ Charlotte-Mecklenburg Storm Water Services



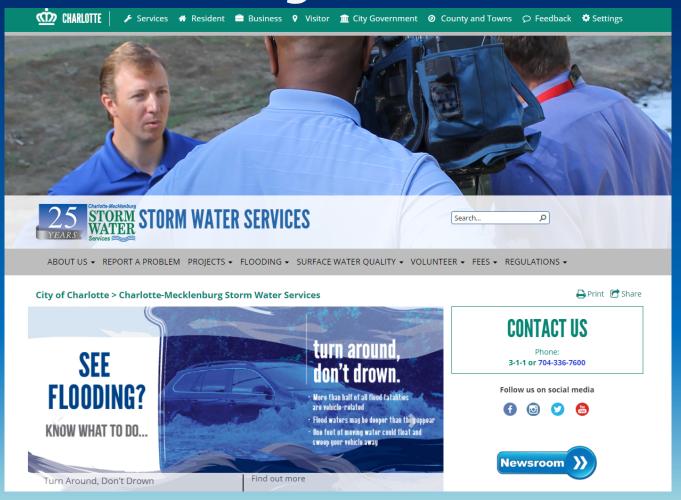
How do you present a new project?

Public meetings, Maps, Pictures, Drawings, Documents, Graphs, etc...

The Times, they are changing...

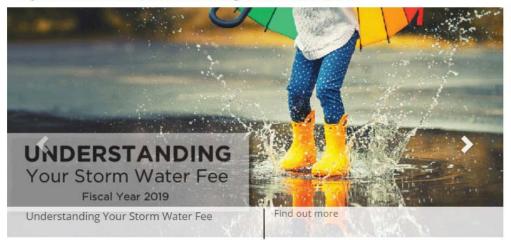
Digital imaging, Video, Drones, Satellite imagery, LiDar, Social Media, 3D imagery, etc...

Charlottenc.gov/StormWater









CONTACT US

Phone: 3-1-1 or 704-336-7600

Follow us on social media











Interactive Projects Map

Outreach & Publications

Fees FAQs

Rain Data & Creek
Cams &

10 Tips for Water Quality

Rainy Day Activities

3D Floodzone Maps ය

WaterWatchers App

Data & Apps

Tweets by @StormWaterCM

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Remember to watch what and where you dump. You could be fined for illegal dumping in Mecklenburg County. These fines can reach up to thousands of dollars a day! Avoid this costly mistake: bit.ly/2vxyaUz



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Embed

View on Twitter

City of Charlotte > Charlotte-Mecklenburg Storm Water Services



City of Charlotte > Charlotte-Mecklenburg Storm Water Services



VOLUNTEER WITH US!

AUG 11 STREAM CLEANUP

SEPT 8 STORM DRAIN MARKING

SEPT 22 VOLUNTEER MONITORING

OCT 13 LAKE CLEANUP

Find out more

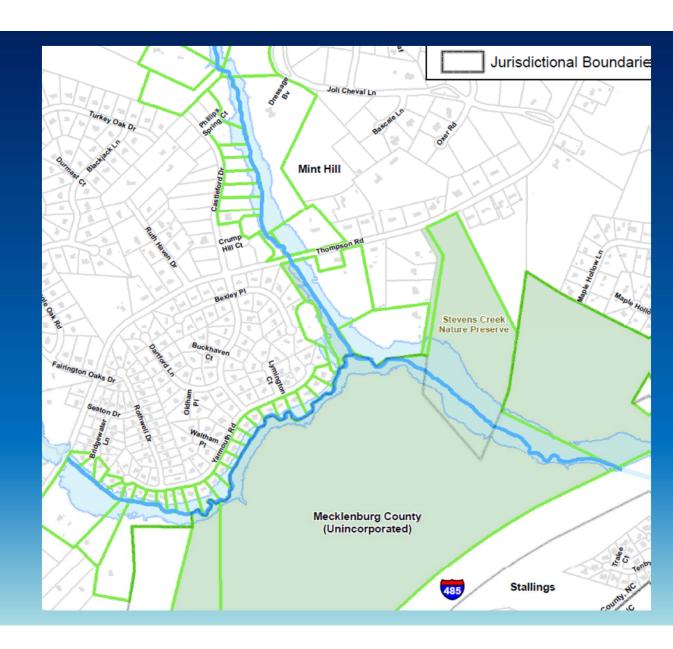
Facebook, Like Me...



Project Planning

- Identify the project
- Develop a mailing list for initial community contact
- Host a community/public meeting to raise awareness
- Discuss objectives of the project, Project Goals
- Community concerns (Listening is key...)
- Address concerns to the best of your ability
- Move the project forward as a team
- Project websites, Facebook, YouTube, Twitter...

- Stevens Creek
- Mint Hill, NC
- Sub of Charlotte, NC
- County Property
- 59 stake holders
- 10,000 ft of Stream
- Five Major Projects
- Grant w Fish/Wildlife
- Goose Creek Watershed



Stevens Creek

- Highly erosive banks
- Vertical banks
- No vegetation
- Tree loss
- Debris
- Rock bed
- Increased lateral movement









Disclaimer

 No animals were harmed in the making of this photo...





Overall Project Goals, (Typical for most projects)

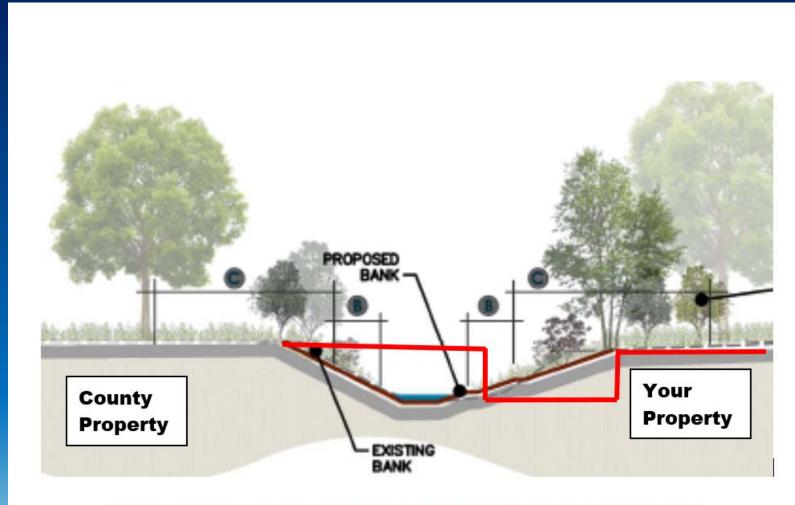
- Reduce sediment contribution from bank erosion
- Improve hydraulic and geomorphic functions
- Improve aquatic habitat
- FEMA "No-Rise"
- Incorporate greenway crossings
- Protect utilities
- Public involvement

Maximize Stream Length



Little Sugar Creek, Hidden Valley Ecological Park





The red line represents the CURRENT creek conditions.

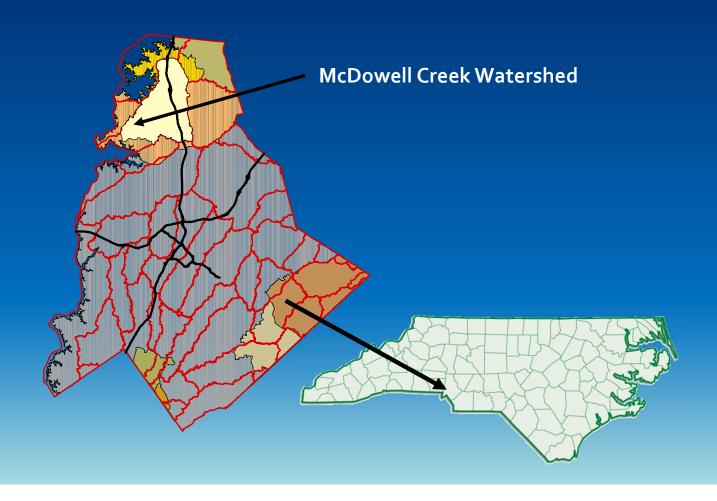
Looking Upstream.







McDowell Creek Watershed
Mecklenburg County - Huntersville, NC
Example of incorporating restoration/stabilization into a watershed plan



McDowell Creek Watershed History

- 1930s Widespread straightening of McDowell Creek to prevent malaria
- 1990s Population increases by 300% (Still rising)
- 1992 Most of the Watershed designated as Water Supply Watershed Local zoning ordinance capping WWTP pollutant load at 1992 levels.
- 1999 Buffer Ordinance
- 2000s 303d list as "Biologically Impaired"
- 2001 Watershed Modeling
- 2002 Huntersville Water Quality (LID) Ordinance Ordinance–Watershed Management Plan Adopted
- 2003 -- McDowell recognized a Class 4, 305B listing, No TMDL
- 2006 -- Northcross BMP Retrofit Project
- 2009 -- Upper McDowell Stream Restoration & BMP
- 2010 -- North Mecklenburg Recycle Center BMP
- 2011 -- Torrence Creek, Tributary #2
- 2012 -- Torrence Creek, Tributary #1
- 2013 -- North Mecklenburg Park BMP & Restoration, Torrence Main
- 2015 -- McDowell Creek Restoration

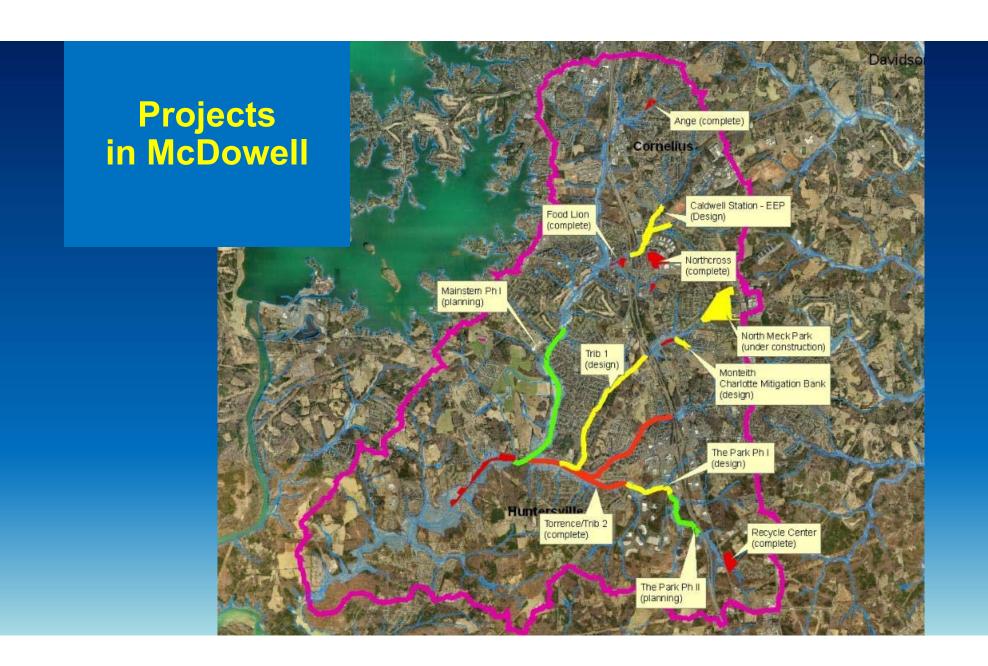
McDowell Creek Watershed Management Plan



Completed by: Charlotte-Mecklenburg Storm Water Services Version 4 March 2, 2008















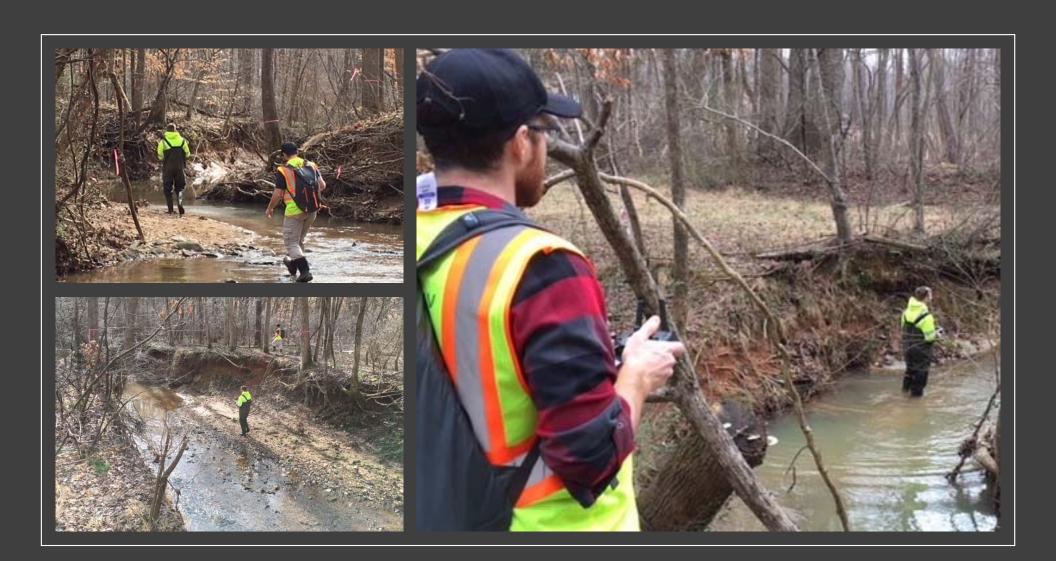


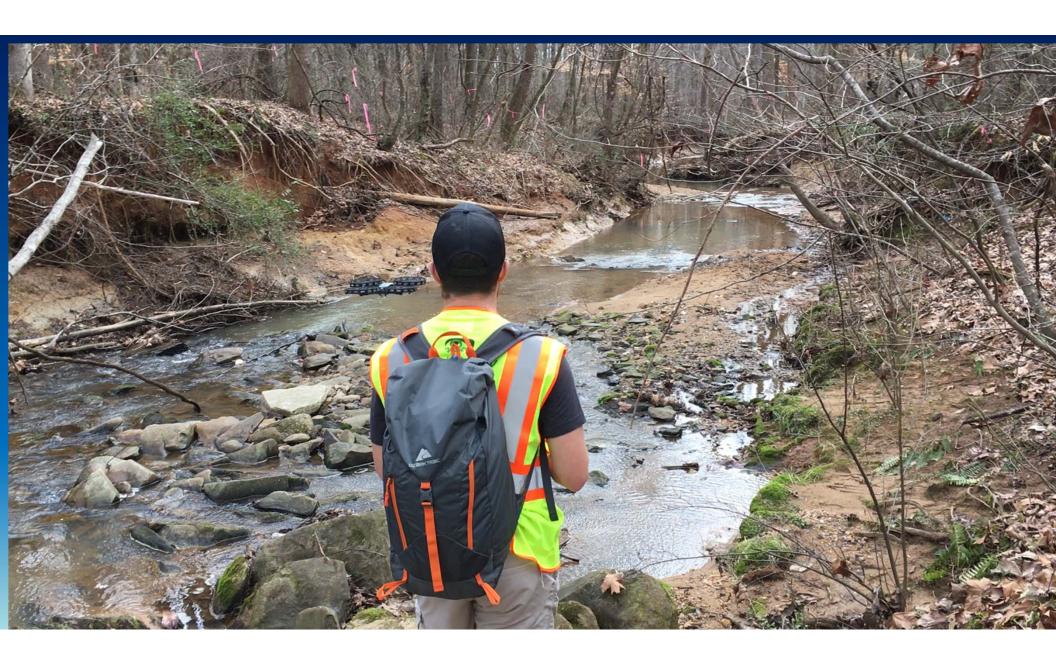














Lessons Learned

- Face to Face, Build the relationship
- Under Promise, Over deliver
- Be clear on expectations
- The real deal, use past projects when possible.
- Find the Win/Win.
- Listen, Listen, Listen...



