

CLAYTON COUNTY Water AUTHORITY 2022 Annual Stormwater Report



Stormwater Maintenance Crews Completed Nearly 2,000 Work Orders During FY 2021-22



Clayton County Water Authority's Stormwater Utility (SWU) is proud to share these highlights from May 2021 – April 2022.

The SWU's Engineering Technician and Maintenance Crews work as a team to provide quality service when it comes to responding to customer calls. On average, a customer complaint was responded to within twenty-five (25) hours. When a customer calls with a stormwater issue, our Stormwater Engineering Technician is dispatched to check out every issue or complaint. During Fiscal Year 2021-22, he responded to over 1225 customer related calls.

Part of the maintenance activity includes an aggressive inspection program. This helps our staff determine potential problem locations, as well as being compliant with our Stormwater Permit. Using both internal staff and outside contractors, CCWA inspected the following structures over the past year:

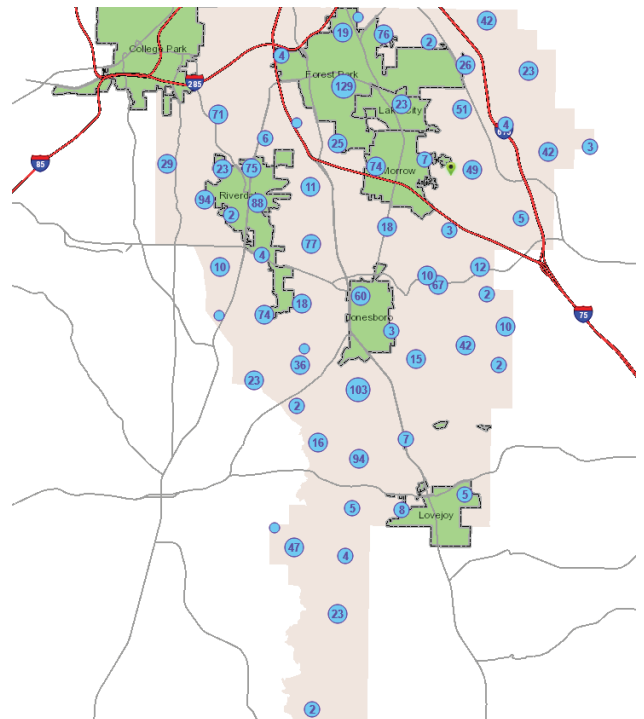
- Approximately 2,300 catch basin and inlets
- Approximately 216,000 linear feet (40.9 miles) of storm drains
- Approximately 75,000 linear feet (14.2 miles) of ditches

The Stormwater Maintenance staff of 18 employees (2 pipe repair crews, 1 grading crew and 1 vacuum truck crew) addressed 1,995 work orders. Activities from these completed work orders represent:

- Approximately 48,000 linear feet (9.1 miles) of storm drain lines
- Approximately 23,000 linear feet (4.4 miles) of graded ditches
- Approximately 500 cleaned/repaired catch basins

Maintenance costs for this work completed between May 2021 and April 2022 were roughly \$2.7 million. In addition to the maintenance work orders, CCWA solicited the help of outside construction firms to perform larger-scaled Capital Improvement Projects (CIP). These projects include repair methods of "Remove and Replace" (R/R), as well as a newer technology called "Cured-In-Place Piping" (CIPP).

Using both methods, CCWA performed 121 large-scaled CIP's throughout the county last year. The 90 R/R and 31 CIPP jobs resulted in costs slightly under \$3.9 million. Combined, approximately 15,758 feet (2.98 miles) of pipe were replaced/renewed using these methods.



Map shows areas work was completed May 2021 – April 2022

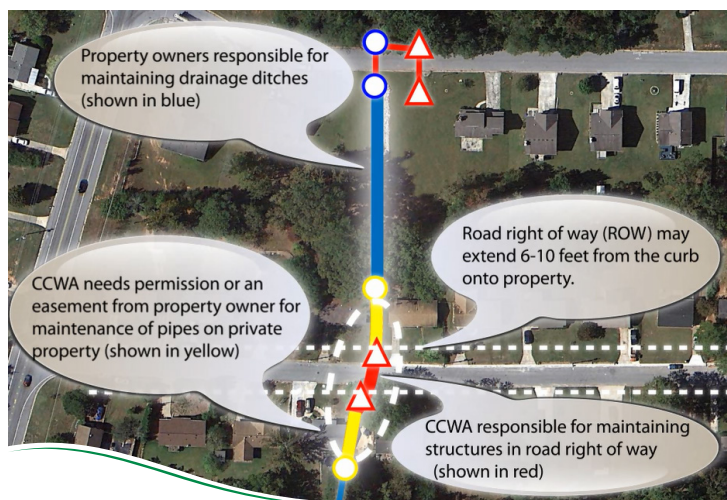


Your Stormwater Dollars At Work

The Clayton County Water Authority's Stormwater Utility (SWU) is responsible for stormwater management activities for unincorporated Clayton County and the cities of Forest Park, Jonesboro, Lake City, Lovejoy, Morrow and Riverdale.

These activities include Construction Plan Reviews and Inspections, Floodplain Management, Illicit Discharge/Illegal Connection Inspections and maintenance of stormwater infrastructure within the road right-of-way.

This annual report is produced to show a summary of the activities that have been performed by Clayton County Water Authority's Stormwater Utility over the past year and how your Stormwater dollars are being used



Stormwater Pollution Solutions

- Never dump anything down storm drains or into streams and report anyone who does.
- Apply lawn chemicals according to the label. Do not over apply chemicals and never apply before a rain event.
- Keep grass clippings and other yard waste out of street gutters and storm drains. Drains blocked by excessive debris could cause flooding. Compost or mulch instead.
- Dispose of used motor oil, paint, and other household chemicals properly or bring them to our annual Household Hazardous Waste Collection Day in April.
- Do not dispose of used cooking oil by dumping it outside or in a storm drain.
- Don't litter. Put trash in its place.
- Take your car to a commercial car wash facility. Washing cars on driveways or streets will result in the cleaning products flowing directly into storm drains.
- Pick up your pet's waste. Pet waste can carry harmful bacteria and parasites.



Stormwater Utility Services include:

- Maintenance, repair and replacement of stormwater infrastructure within the road right-of-way.
- Floodplain management
- Construction plan reviews and inspections
- Illicit discharge/illegal connection inspections
- Public education/public involvement
- Watershed improvement activities

Responsibilities of property owners and local jurisdictions:

- Remove debris from ditches or yards
- Maintain drainage ditches on private property
- Maintain or clean curb and gutter
- Clean or mow roadside ditches



Flood Protection

CCWA may be able to provide some guidance regarding your flooding issues should you request a site visit. Some common types of advice may include the following:

- Demolish the building or relocate it out of harm's way
- Elevate the building above flood level
- Elevate damage-prone components, such as the furnace or air conditioning unit
- Dry floodproof the building so water cannot get into it
- Wet floodproof portions of the building so water won't cause damage
- Construct a berm or redirect drainage away from the building
- Maintain nearby streams, ditches, and storm drains so debris does not obstruct them.
- Correct sewer backup problems

To request a site visit, please contact CCWA Floodplain Management at 770.302.1768 or email ccwa_floodplain@ccwa.us.



Do you know your property's Floodplain status?

Flood insurance rate maps (FIRM's), also known as Floodplain Maps, went into effect on June 2017 for properties located in Clayton County. After years of extensive studies and analysis, CCWA revised the County's Floodplain Maps, as guided by FEMA. The County's maps were digitally updated in 2007, but several other factors required additional field studies and desktop engineering to bring the maps up to date

These updated maps are more precise than older maps because better flood hazard and risk data has been incorporated, and the latest science has been used to make them more accurate. Flood risks change over time due to construction, development, environmental changes, floodplain widening or shifting, and other factors. These changes send water flowing in new directions, creating flood risks that didn't exist previously—precisely why flood maps must be updated periodically.

The updated maps give staff a better understanding of local risk assessment, floodplain management, land use and emergency planning.

To determine your floodplain status, you may visit the Georgia Flood Map Program site at www.georgiadfirm.com. On that page, first you will need to check the box to "agree to the terms and conditions" to enter the website. Then, you will type your street address, city, state and zip code into the search bar where it states, "type your address here...". Then, select the 'Find' button, and you will be directed to useful floodplain information available for your property, such as the flood zone located on your property, the Base Flood Elevation (or BFE), whether or not your home is located in a floodway, what official FEMA flood panel map your property could be found on, etc.

Please note, your Floodplain status is determined on whether the floodplain boundary touches your property. Your home, or important structure, may be elevated such that the lowest floor may be higher than the BFE. These maps may not provide you information on your particular structure. It may be necessary for the property owner to have an elevation certificate prepared, at their costs. Elevation certificates must be prepared by a Registered Land Surveyor or Professional Engineer. CCWA does not provide this service for property owners. Costs for the preparation of an elevation certificate ranges from \$500 to \$1,500. It is up to the property owner to procure these services.

If you have a mortgage on your property, the lender may require a Flood Insurance policy if your property is within the boundaries of a floodplain. An elevation certificate may assist in reducing the cost of a flood insurance policy, if it can be determined the structure, in question, is elevated to where flooding risks are minimized. In some cases, the flood insurance policy may not be needed.

If you need additional assistance, please contact CCWA's Floodplain Division at ccwa_floodplain@ccwa.us or at 770.302.1768.



Roadway sinkhole called for emergency repair of failed storm culvert 7290 Southlake Parkway - Morrow | \$103,552

The Clayton County Water Authority's (CCWA) Stormwater Utility is required by the County's Stormwater Permit to inspect 20% of stormwater infrastructure (pipes, catch basins, ditches) on an annual basis. While performing inspections along Southlake Parkway, the CCWA team recognized a series of three creek culverts in need of replacement. Our team began the process of design and engineering to replace these three culverts.

Unfortunately, one of the three culverts required immediate attention. On Friday, July 2nd, 2021, a huge sinkhole appeared in the turning lane near 7290 Southlake Parkway. This void measured roughly 12 feet by 12 feet and was nearly 15 feet deep. CCWA staff immediately arrived at the area, to secure this sinkhole over the holiday weekends. As this work was part of a planned culvert replacement project, the thought was to continue stabilizing this void until the contract was issued. Unfortunately, excessive rains and constant creek flow thru this culvert continued to erode the fill material around the failed culvert. The sinkhole re-appeared within two weeks.

Out of an abundance of caution, it was determined to replace this culvert immediately. This work was challenging because we made the decision to maintain traffic flow on Southlake Parkway. This job was divided into two segments. The first being the replacement of roughly 80' of 42" corrugated metal pipe with 42" reinforced concrete pipe. Because the metal pipe had totally failed, this open cut method was our only option to renew this segment of pipe. CCWA used the services of Hall Construction to perform the necessary culvert replacement.

The second segment allowed our team to use a trenchless repair method called Cured-In-Place Pipe (CIPP). CIPP is a method that allow a resin impregnated felt tube to be inserted into and existing pipe to create a new pipe once that produced is cured by hot water or steam. Therefore, our team was able to renew a 40' segment of 42" CMP. This segment of pipe ran under a masonry sign for a nearby apartment complex and through a constructed retaining wall. CCWA used the services of IPR-Southeast to perform the needed pipe lining.

To perform the open cut replacement of 80' of culvert under Southlake Parkway, the costs was \$87,111. The cost of renewing the remaining 40' of culvert using CIPP was \$16,441. The overall cost of this repair was roughly \$103,552.



Behind the Tap Spotlight: Stormwater Inspection Technicians Deyontai Singleton And Corey Binion

Meet Stormwater Inspection Technicians Deyontai Singleton and Corey Binion. As part of the Stormwater Compliance Team, they inspect CCWA's stormwater infrastructure such as pipes, catch basins, ditches, and outfalls. These inspections satisfy one of many of the local jurisdictions' Municipal Separate Storm Sewer System (MS4) Permits. This team is required to inspect 20% of the storm sewer system annually throughout Clayton County and the 6 cities, which equates to roughly 234,000 feet of pipe, 3,000 catch basins, 109,000 feet of ditches, and 545 outfalls. They conduct these inspections daily using equipment such as pole cameras, CCTV remote cameras, and tablets.

According to Corey, Stormwater Inspection Technicians are the first ones of the Stormwater team to see and analyze the system. Once they complete their detailed inspections, a work order is made for necessary maintenance of the system based on their inspection reports. They also inform the community about keeping the environment clean and safe.

Both guys started their careers at CCWA in Stormwater Maintenance working in the field repairing and replacing infrastructure before moving to the inspection side. Corey likes the scenery, meeting new people, participating as a CCWA Ambassador in career day events and several other events and just being out in the field. Deyontai likes the special cameras and tools they use to capture images.



"I also like coming from the repair side where we replaced the infrastructure to now getting to see the issue from the start," Deyontai adds. "I can recognize what needs to be fixed and what doesn't."

Their challenges include weather, Wi-Fi interruptions and trying to get to outfalls. "If it rains, we can't do our job. That sometimes could affect our numbers," says Deyontai. Corey adds that wildlife can also be a challenge, "We have to stay cautious!"

This pandemic makes the job a little bit harder. "We work more independently in the field now, but help is always one call away!" adds Corey. #waterprofessionals



2022 Rivers Alive Stream Cleanup Saturday, October 22 Location – T.B.D 10 a.m. – Noon

CCWA's Stormwater staff works throughout the year to educate residents about the damage stormwater pollution does to our local waterways and how they can prevent this pollution from making its way into our drinking water. This event gets residents involved in preserving and protecting our local waterways.

Community volunteers join CCWA volunteers at our annual stream cleanup event as we remove trash, litter and debris from one of our local streams or creeks. **We will provide t-shirts, bags and gloves.** Volunteers will need to wear a mask/face covering. This is a great volunteer opportunity for scouts, civic groups, church groups, environmental clubs and families.

COVID-19 has curtailed this activity for the last couple of years, but we look to resume this worthwhile event this fall. We are currently determining our next clean up location. Check our website (ccwa.us) and follow our Facebook page (@ClaytonCountyWater) for updates.



Connecting With Our Community

Career Day Events

Stormwater staff participates in numerous Career Day events at Clayton County Public Schools. Through these events, staff connects with thousands of students to educate them about the damaging effects of stormwater pollution and what they can do to protect our water quality.

Educational Programs - We're Project WET Certified!

Several of our CCWA Ambassadors have received the training to become Project WET certified. Project WET uses an action-oriented approach to provide education on the value of water. Our Stormwater Ambassadors will develop programs with an urban watershed focus. We'd love to create a program that aligns with the Georgia Standards of Excellence & fits your student's needs! To request our participation at your school, please contact us at CCWA_CommunityRelations@ccwa.us



Flood Map Service

CCWA Floodplain Management staff is available to explain information to you regarding your property such as the base flood elevation, flood zone, FIRM panel, additional FIRM data, flood insurance information, and whether there are any wetlands on your property. To discuss your property's floodplain status with CCWA floodplain management staff, contact ccwa_floodplain@ccwa.us or at 770.302.1768.



Thank You for Turning in More than 67,000 lbs. of Household Hazardous Waste During Spring Collection Day

CCWA's Stormwater Utility hosts Household Hazardous Waste Collection Day every Spring to give residents the chance to dispose of a variety of household items, such as used paints, oil, pesticides, cleaners, batteries and pharmaceuticals.

CCWA contracted with MXI Environmental to collection and properly dispose of the waste during the free, four-hour event on Saturday, April 23, 2022 at the W.B. Casey Water Resource Recovery Facility in Jonesboro.

MXI serviced 432 vehicles and processed 67,700 lbs. of waste. The event costs nearly \$36,000 (the cost for the contractor collecting and properly disposing of the items) and goes a long way to keeping these pollutants out of our local creeks, streams and landfill.

Thank you to all Clayton County residents and CCWA Ambassadors who helped make the 2022 event a success!



Report Illegal Dumping Into Stormwater Infrastructure

It is important to keep our stormwater infrastructure, streams and creeks free of harmful items that wind up in our drinking water reservoirs. This includes used motor oils, paints, pesticides, chemicals, litter, trash and even grass clippings.

Many people believe that everything in a storm drain goes through a treatment process just like wastewater. However, Clayton County's storm water infrastructure is not tied in to our sanitary sewer system. So, everything that makes its way into a storm drain, stream or creek winds up in our raw water reservoirs.

If you see someone dumping anything into one of Clayton County's storm drains, streams or creeks, please notify the Water Authority contacting our Call Center at 770.960.5200. If you see someone in a vehicle dumping, any information you can provide (tag number, company name, etc.) is helpful.

Looking for a Speaker? Call Us

If you would like a Stormwater staff member to speak to your civic group or HOA, please call 770.960.6972.

Quality Water, Quality Service

1600 Battle Creek Road, Morrow, GA 30260
Customer Service 770.960.5200 / www.ccwa.us

Find Us on YouTube: Clayton County Water Authority

CCWA has a YouTube channel that features educational videos on:

- Preventing stormwater pollution
- Finding and fixing leaks
- Proper disposal of fats, oils and greases
- and other topics

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