



Durham County Soil & Water BETC Summer Green Team

July 27, 2017



2017 Summer Green Team

Bionomic Educational Training Center (BETC, pronounced “Betsy”) BETC provides funding, work experience and practical math and science lessons and green infrastructure training for High School students.



BETC Summer Green Team Goals

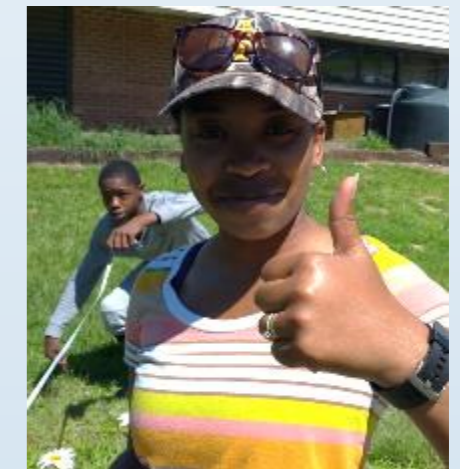
June 19 – July 27, 2017: Monday - Thursday (8am- 4pm)

- Install **6 stormwater Best Management Practices (BMPs)** at schools and in the community: 1 structural stormwater conveyance, 1 rain garden, 1 grass swale, 1 riparian buffer, and 2 critical area plantings;
- Provide **BMP maintenance** at schools and in the community;
- **Plant and maintain vegetable gardens** throughout the community, donating any harvested produce to local charities;
- Participate in a **hands-on rain water harvesting training** and Rain Garden Design & Installation training(s), and;
- **Tour nurseries and farms** to learn more about careers in agriculture and the green industry.



2017 BETC Summer Green Team

Team Member	
Michael Dupree	Durham County Soil & Water staff
Heather Dutra	Durham County Soil & Water staff
Amy Jenkins	OCS Teacher, Southern High School
Rachel Oliver	Science Teacher, Northern High School
Demikia Taylor	Ag Ed, Northern High School
Jack Brown	Ag Ed, Northern High School
Len Curington	OCS Teacher, Southern High School
Emily Chavez	OCS Teacher, Southern High School
Chas M.	Student Intern
Donna K.	Student Intern
Isaiah S.	Student Intern
Iyanla M.	Student Intern
Sharrondae L.	Student Intern
Stanley M.	Student Intern
Tori L.	Student Intern
Torian S.	Student Intern
Victor B.	Student Intern
Micah L.	Student Intern



Partnerships & Funding

2017 BETC Summer Green Team Partners:

- **The Smith Richardson Foundation** (\$20,000 teacher salaries)
- **The Longleaf Collective** (\$18,500 teacher salaries & materials)
- **DPS Career & Technical Education and Durham Youthworks** (Student stipends)
- **NACD** (\$300 for Rain Garden Workshop)
- **NC Cooperative Extension** (In-kind: Workshops)
- **DPS Maintenance** (In-kind: Staff & Heavy Equipment)
- **Birchwood Heights Community Association Board** (Lunch & materials)
- **Soil & Water District Board Members**
- **Various local farms & nurseries**
- **Community volunteers & donations**



Training



Rain Water Harvesting Training



NC Cooperative Extension Residential Rain Garden Certification Class & Exam



Field Survey Training



Field Survey Training



Stormwater BMP Installation



Before & After

Rain Garden & (Sod) Critical Area Planting



Riparian Buffer



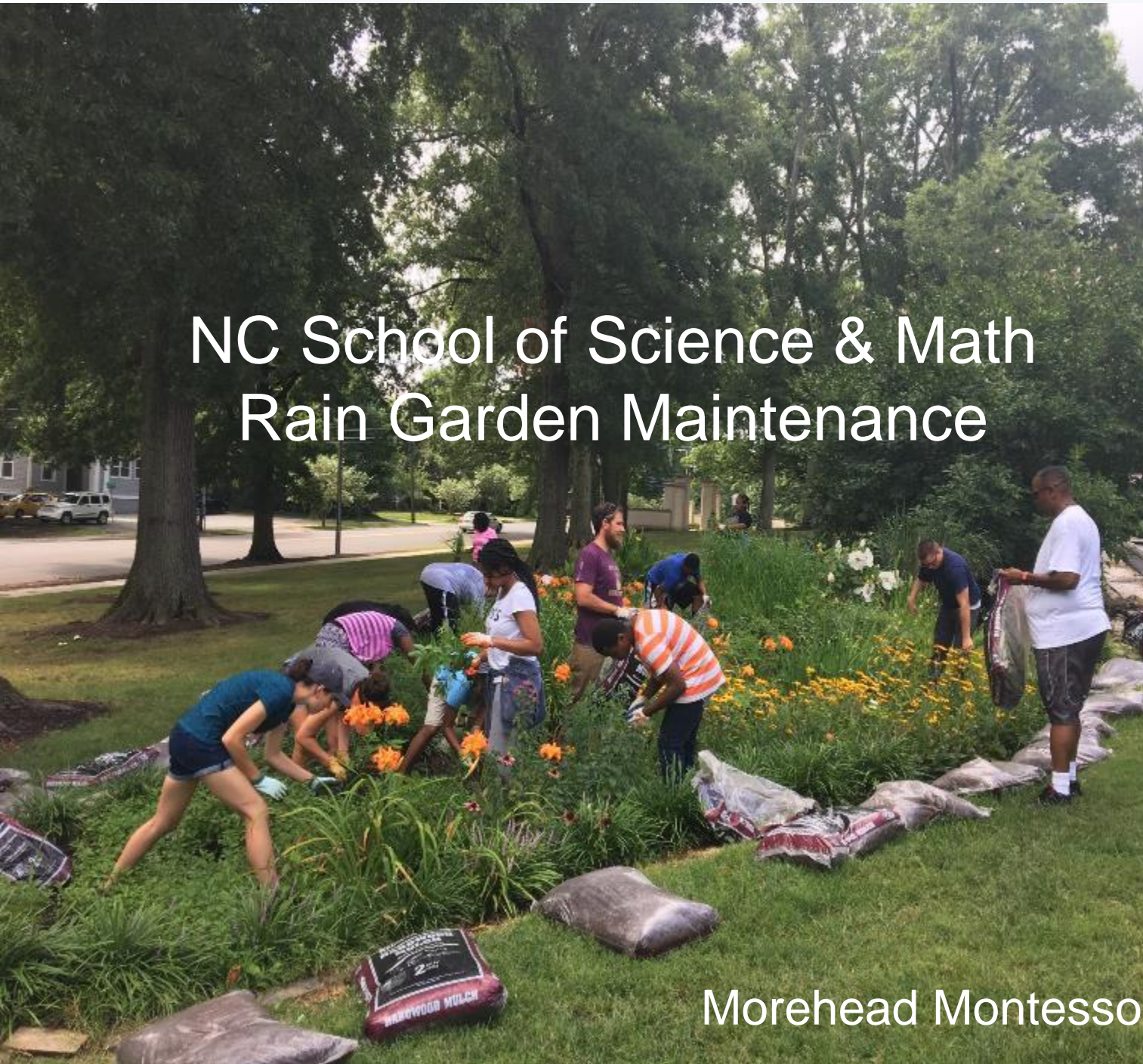
Cistern



Critical Area Planting



Stormwater BMP Maintenance



NC School of Science & Math
Rain Garden Maintenance



Jordan High Rain Garden Maintenance



Morehead Montessori Rain Garden Maintenance



Vegetable Garden Establishment/Maintenance



EK Powe Elementary



Birchwood Community Center



Morehead Montessori



Northern High School



Career Exploration



Pura Vida Farm



Plantworks Nursery



Endless Sun Produce



Raleigh City Farm



Heeks Farm



2017 BETC Summer Green Team Outcomes

- Grant funding leveraged by Soil & Water: \$48,121
- Combined total 3,000+ hours of green infrastructure training
- 6 new stormwater BMPs installed, 9 maintained:
 - 4,500 sf of sod installed
 - 299 plants installed
 - 45 trees planted in a 3,000 sf riparian buffer
 - 1,294 sf of rain gardens weeded & mulched
- 6 vegetable gardens maintained:
 - 129 vegetable plants installed
 - 890 sf of vegetable gardens weeded & mulched
- 6 new Certified Residential Rain Garden Professionals (BETC teachers)

