



urban waterway litter solutions

TRASH TROUT™

WWW.ASHEVILLEGREENWORKS.ORG

COMPANY PROFILE

ASHEVILLE GREENWORKS

Established in 1973, our mission is to inspire, equip, and mobilize individuals and communities to take care of the places we love to live. Through community-based, volunteer-led environmental conservation projects and education programs, we work together to enhance the environment and quality of life for all residents of Asheville and Buncombe County.

Today, Asheville GreenWorks is the most active environmental non-profit in Western North Carolina working with over 3,500 volunteers and managing 200+ projects annually.



ASHEVILLE
GreenWorks
BUNCOMBE COUNTY

SERVICES WE OFFER

- Consultation
- Project Management
- Manufacturing
- Turnkey Solutions
- Program Guidance





THE PROBLEM

1

Stormwater-driven litter is responsible for 75% of the manmade trash found in local waterways.

2

Trash left in waterways will photodegrade into microplastics that will be consumed by higher and lower benthic creatures.

3

All rivers eventually empty into the oceans, transporting microplastics further afield.



LITTER SOLUTIONS

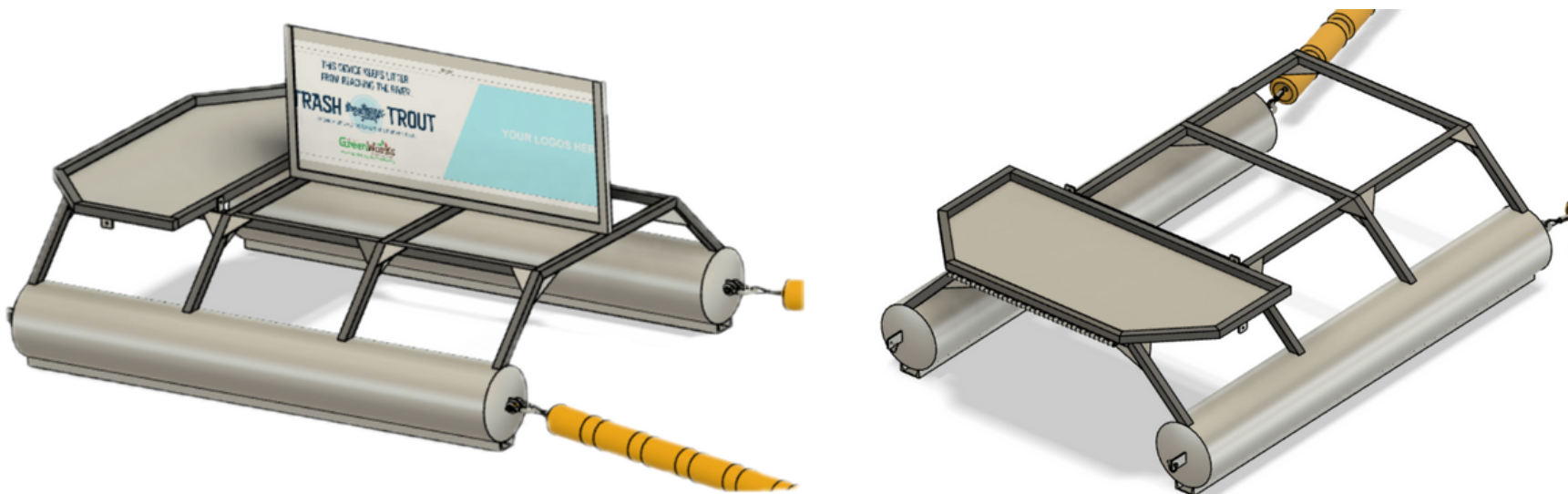
TRASH TROUT™

Simple and effective traps designed to capture stormwater litter and keep it from polluting our downstream neighbors.

TRASH TROUT™

This device is perfect for smaller urban tributaries. It is easy to install, access, and move around for educational and research purposes.

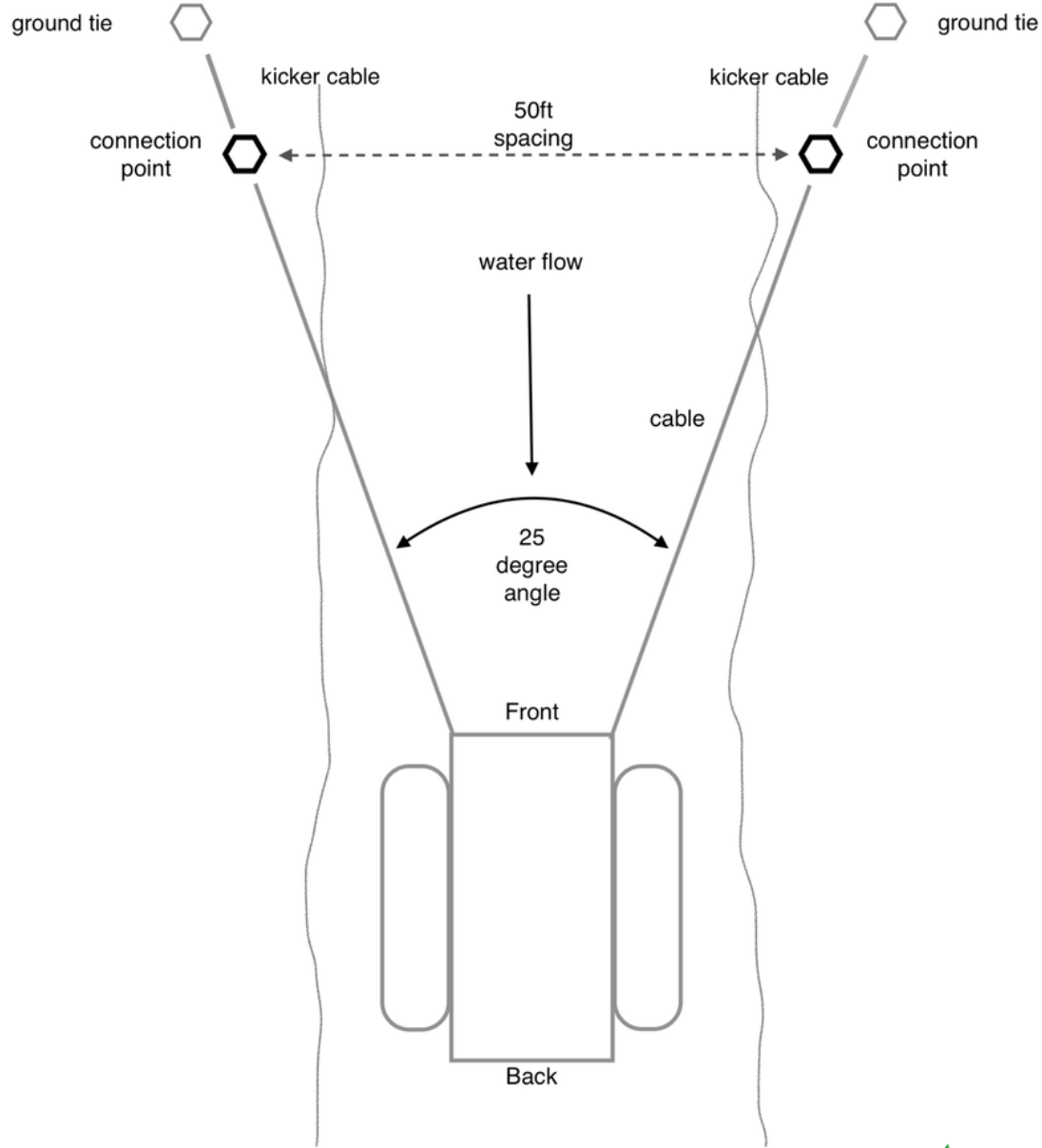
This device was built to withstand flow rates exceeding 10,000 cfs, capture manmade litter but passive enough as to not to harm wildlife.



HOW DOES IT WORK?

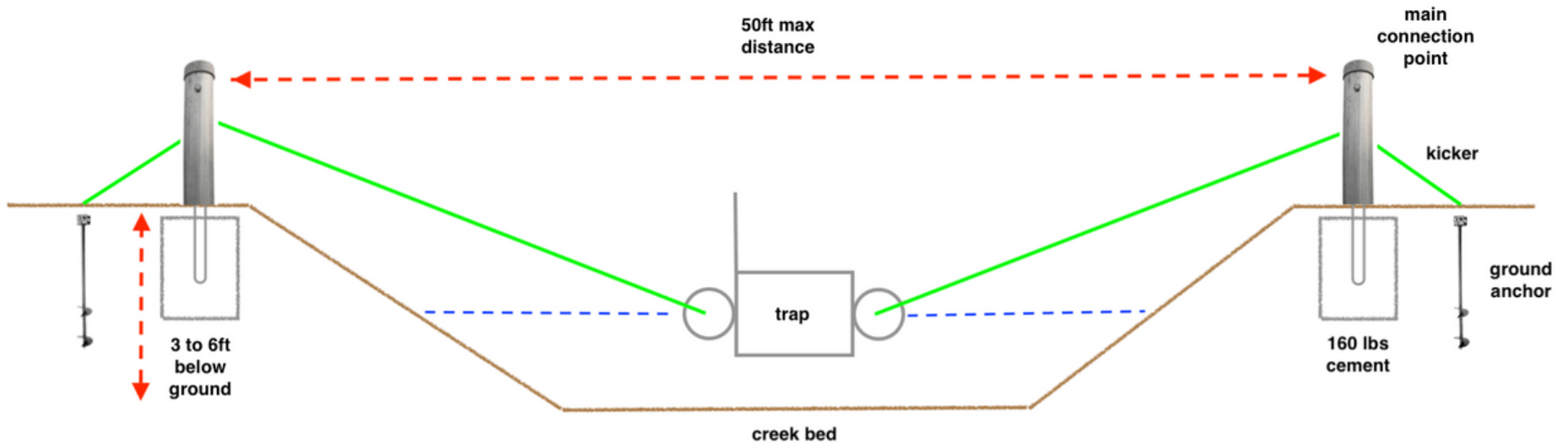
Utilizing the flow of the waterway, flotation and a mesh gate, we're able to seize floating garbage and contain it until it's ready to be cleaned out.

The device doesn't contain a top or bottom to allow creatures to pass through without harm. The 3/4 openings in the mesh gate keep smaller benthic critters from becoming entangled in the trash.



CONNECTION POINTS

Connections to the banks are achieved by using a combination of ground anchors, posts and cement. We use 7-19 strand galvanized cable to secure the traps, along with heavy gauge clamps and rust resistant hardware. Connection points on four sides maintain stability and keep the device in the primary flow of the waterway. The trap rises and falls with the water levels and is built to withstand average flooding events.



Creek Profile



SPECIFICATIONS

TRASH TROUT™

Built in the USA by
Asheville GreenWorks

Measurements

Trap 2ft (h) x 6ft (w) x 8ft (l)

Weight

Trap 250lbs

Materials

Frame: Aluminum

Pontoons: Aluminum

Gate: 3/4 Expanded Stainless
Mesh

Storage Capacity

96 cubic ft

Site Specs

Not to exceed bank width of 50ft

Max historical flow rate 10k cfs

FAQ

The Trash Trout™ is a work in progress. As we make improvements, we will connect with our network and pass along any suggestions that may improve its performance and longevity.

Q: How often do you clean out your traps?

A: Roughly once a month or after a significant rain event.

Q: How long will the unit last?

A: 10 to 20 years with regular maintenance.

Q: Does the trap exacerbate flooding?

A: This device is designed to rise and fall with water levels. With regular maintenance, the trap will not become a flooding hazard.

Q: What's the most common item found in the trap?

A: Plastic beverage containers and styrofoam.



CONTACT

Asheville GreenWorks
2 Sulphur Springs Road
Asheville, NC 28806

Product inquiries:
eric@ashevillegreenworks.org
or
828.254.1776