




# Boulder County Debris Removal Program



Marshall Fire Community Meeting

March 29, 2022

# Boulder County Debris Removal Program



# Boulder County Debris Removal Program



**MATTHEW G. MAGLEY**

*TOWN MANAGER*

**ALLISON JAMES**

*DISASTER PREPAREDNESS AND RECOVERY MANAGER*

# Boulder County Debris Removal Program



**JEFF DURBIN**

*CITY MANAGER*

**CAMERON FOWLKES**

*ASSISTANT CITY ENGINEER*

# Operations Manager

Luke Matzke, Anders Environmental







**ANDERS  
ENVIRONMENTAL**  
Disaster Response & Recovery

Trust • Teamwork  
Integrity • Empowerment

March 2022



## Who We Are

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Anders Environmental is committed to the protection, preservation, and restoration of the natural environment. We provide scientific and construction expertise to help our clients minimize the cost, environmental, human health, and ecological impacts of their projects while complying with the regulations that govern their work.







Capabilities & Experience



## Capabilities & Experience

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- 15 years of experience on large scale environmental remediations and disaster recovery projects
- Experience working with local and federal regulators to ensure projects are completed correctly and as efficiently as possible
- Extensive experience managing multiple disciplines on large construction projects to create a cohesive team







## Pertinent Projects

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- Hurricane Katrina
- Four Mile Fire, Boulder County
- Boulder County Floods of 2013
- Camp Fire, California
- Carr Fire, California
- Hurricane Florence





# Thank You.

As a proud member of the Boulder County community, I thank you for trusting me to work with the incredible Boulder County team and trusted contractors to get families back in their homes and moving forward with their lives.



# Debris Removal Contractor

Mark Stafford, DRC Emergency Services







DRC strikes back with decades of experience in disaster recovery. As an industry leader, we offer a wide array of emergency response services dedicated to helping your community rebuild.

*Our mission is to provide the most dependable, honest and customer-centric services in the industry by building lasting relationships with the clients we serve.*



# Capacity

- In 2021, DRC removed over 16,000,000 cubic yards of debris and managed 82 debris management sites.
- Simultaneously mobilized, staffed, and successfully operated 53 individual projects throughout the Southeastern US during the 2017 Hurricane Season.
- Established a single-day productivity record for post-disaster debris removal as recognized by FEMA in 2008 for collecting 440,000 cubic yards.
- Established industry standards for total volume recycled by recycling 100% of the 5.6 million cubic yards collected in Houston, TX following Hurricane Ike.
- Since its inception, DRC has assisted local jurisdictions with FEMA reimbursement without a single de-obligation.





# 2020 California Wildfires

- Debris removal completed for 627 parcels
- 11,800 hazard trees mitigated and removed
- 97,000 tons of debris removed (including ACM)
- 700 vehicles removed for recycling
- Recycled over 32,000 tons of concrete, and over 4,400 tons of metals
- Joint Venture with sister company FORGEN







2020

Washington BABB  
Fire

- *Operated two contracts under a State of Washington contract*
- *Received Performance commendations from the State and Local Jurisdictions*





# 2018 Woolsey Fire (Forgen)

- *145 properties*
- *10 crews - 40 field employees*
- *38,500 tn burned debris and ash removed*
- *18,000 tn concrete removed & recycled*
- *1,000 tn metal removed & recycled*
- *17,000 tn excess soil contaminated with ash removed*

# 2018 Paradise Camp Fire (Forgen)

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- *15,000+ tn of concrete, contaminated soil, and metal hauled to appropriate disposal facilities*
- *Disposal of ~6,000 cy of asbestos*
- *Personal air monitoring for asbestos, metals, chromium 6, and mercury while onsite*
- Community dust control, select hazardous tree removal, installation of safety fence, and vehicle abatement in addition to property debris removal services







*On the morning of On December 30, 2021, the Marshall Fire and the Middle Fork Fire broke out in Boulder County affecting over 1100 homes in Unincorporated Boulder County, the Town of Superior, and the City of Louisville.*

## Project Understanding

*DRC has been contracted to perform Private Property Structural Debris and Hazard Tree Removal Operations in Unincorporated Boulder County, the Town of Superior and the City of Louisville to remove fire structural debris material from parcels where structures were damaged or destroyed by the Middle Fork and Marshall fires, and the removal of Hazard Trees damaged by these fires that present an imminent threat to public infrastructure including public or private property.*

# Boulder County Debris Removal Program



**CODY LILLSTROM**

***PUBLIC WORKS - RESOURCE CONSERVATION DIVISION***



# Boulder County Debris Removal Program

What homeowners can expect from the Debris Removal program:

BEFORE



AFTER





# Boulder County Debris Removal Program

## What homeowners can expect from the Debris Removal program:

1. Removal of the ash footprint, including incidental soil.
2. Removal of foundations, including concrete slab floor and structural support piers.
3. Removal of driveways that were damaged by the fire/heat.
4. Homeowners can elect to have their non-damaged/destroyed driveways and other concrete flatwork (patios, private sidewalks) removed.
5. Removal of accessory buildings (sheds, detached garages, etc.) that were damaged or destroyed.
6. Utility locates and confirmation of capping/disconnecting.
7. Removal of trees deemed hazardous by a certified arborist.
8. Natural grading of the debris site if homeowner does not plan to rebuild right away, or sluffing of basement holes with installation of OSHA compliant safety fencing if homeowner intends to rebuild right away.
9. Proper separation, handling, and disposal of all materials.
10. Community air monitoring to confirm engineering controls are effective. Erosion control measures installed in accordance with Stormwater Pollution Protection Plans.
11. DOT inspections for all vehicles operating on the project to ensure local roads are as safe as possible.



# Boulder County Debris Removal Program

**What homeowners can expect from the Debris Removal program:**



# Boulder County Debris Removal Program

## Debris removal sequence:

1. Mobilization to site.
2. 360 degree walk of the parcel to verify items listed in the ROE (Can homeowners be present – yes if requested ahead of time?).
3. Site is pre-wet to eliminate dust emissions.
4. Metal is segregated from the ash / debris and loaded out for recycling.
5. Vehicles are removed from debris and loaded out for recycling.
6. Ash and debris is removed, incidental soil removed along with the ash.
7. Concrete is removed starting with folding in the basement walls.
8. Site will be pre inspected by monitoring contractor to ensure all debris has been removed (glass, nails, debris fragments).
9. Site will be rough graded to promote positive drainage and to eliminate tripping hazards.
10. Soil Samples are taken to test for residual contamination.
11. Following sample verification final walk through by Boulder County, Louisville, or Superior inspectors.
12. Once site passes final inspection safety fence is installed if needed.





# What does tree-tagging mean?

A certified arborist has begun tagging trees. Here's what the colors mean.



Light Blue =  
Hazard tree  
that can be  
removed at  
any time



White = Tree  
requested to  
remain intact



Yellow =  
ownership  
unknown



Red =  
Dangerous  
(hanger,  
leaner)



Black = Used  
to cover  
previous  
marking



Caution tape =  
immediate  
hazard tree



# Boulder County Debris Removal Program

## NEXT STEPS:

- Homeowners may opt-in to the PPDR Program up until the crews commence work on your runway.
- Homeowners will be contacted to collect final information, including:
  - Homeowner's preference to remove non-damaged/destroyed driveway and other concrete flatwork (i.e., patio, private sidewalk)
  - Homeowner will sign an Assignment of Benefits form so that the County can work directly with your **insurance company** to obtain debris removal proceed information and, if applicable to your situation, have your debris removal proceeds assigned to the County to be applied to the cost of the PPDR work.
    - This is required for FEMA reimbursement of the PPDR project costs.
    - For homeowners who have already received their debris removal proceeds, the County will contact you directly to collect the amount of these received proceeds.
    - For homeowners who have not yet received their debris removal proceeds, the County will work directly with your insurer to collect these proceeds.
- Traffic control systems will be placed on major truck routes.
- Erosion Control Measures will be installed.



# Boulder County Debris Removal Program

## **SCHEDULE:**

- DRC will now begin individual site inspections in preparation for debris removal efforts.
  - Verification of Right of Entry forms for accuracy.
  - Review homeowner requests for items to preserve.
  - Conduct a 360 degree walk of the property to inspect for potential hazards.
- As individual site inspections are completed, the prioritization list will be finalized and released.
- Homeowners will then be notified in advance of expected arrival by debris removal crew. They will be notified again upon completion of debris removal efforts.
- The Debris Removal Program is expected to take approximately four months to complete.

## **COST:**

- **The overall cost of the program is approximately \$60 million**
- **Participating property owners will contribute the amount of money dedicated in their homeowner insurance policy for debris removal.**
- **Uninsured and underinsured homeowners will be covered**



# Contact Information & Additional Resources

EMAIL – [Debris@BoulderCounty.org](mailto:Debris@BoulderCounty.org)

## WEBPAGES

Debris Program Home = [www.BoCo.org/Marshall-Debris-Cleanup](http://www.BoCo.org/Marshall-Debris-Cleanup)

Debris Program FAQs = [www.BoCo.org/Debris-Program-FAQs](http://www.BoCo.org/Debris-Program-FAQs)

Marshall Fire Home Page = [www.BoCo.org/MarshallFire](http://www.BoCo.org/MarshallFire)

Marshall Fire en Espanol = [www.BoCo.org/MarshallFireEspanol](http://www.BoCo.org/MarshallFireEspanol)