

Disaster Debris Management Best Practices to Become and Stay Prepared







Leading with Science®



Introductions



Disaster Snapshot



2023 Flood: Debris Removal Operations- Cumulative Totals



Cumulative Total: 446 Loads / 6,230 Tons

C&D COMMERCIAL DEBRIS: 1,383 Tons

C&D RESIDENTIAL DEBRIS: 4,319 Tons

MOBILE HOME PARK DEBRIS: 214 Tons

ASBESTOS CONTAINING C&D: 5 Tons

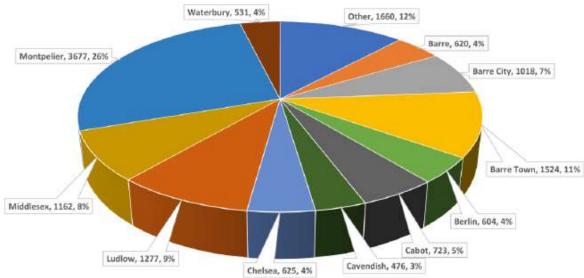
RESIDENTIAL - VEGETATIVE/WOODY: 1,855 Cubic Yards

Contractor Vehicles (Trucks/Trailers): 16 Units

Temporary Flood-Related Hazardous Materials Collection Location – Middlesex, VT July 29, 2023 - August 12, 2023

| | S | u | m | m | a | r |
|--|---|---|---|---|---|---|
|--|---|---|---|---|---|---|

| TRIPS BY | Summary | | |
|------------|---|-------------|------|
| CONTRACTOR | Operated for 13 days. | Date | Cars |
| 1 | Collected 14,000 containers of flood-related hazardous waste from 24 Vermont towns. | 29-Jul | 6 |
| 1 | Served 219 total cars. | 31-Jul | 17 |
| | Made 25 trips around the state to collect 8,292 containers of hazardous waste from | 1-Aug | 12 |
| 2 | | 2-Aug | 7 |
| 1 | flood impacted towns | 3-Aug | 13 |
| 2 | | 4-Aug | 12 |
| | Paint | 5-Aug | 7 |
| 2 | Collected 64 cubic yard boxes of paint under the Paint Care program. | 7-Aug | 4 |
| 1 | | 8-Aug | 9 |
| 2 | Mercury Bulbs | 9-Aug | 22 |
| | | 10-Aug | 29 |
| 1 | 319 fluorescent bulbs were collected via the mercury program | 11-Aug | 37 |
| 1 | 2023 FLOOD RELATED HAZ WASTE COLLECTION PROGRAM PARTICIPATION | 12-Aug | 44 |
| | (Town, No. of Containers, Percent of Total) | Grand Total | 219 |
| 1 | (rown, no. of containers, Percent of rotal) | | |
| | | | |



ENVIRONMENTAL RESTORATION





| Grand Total | 8292 | 25 |
|-------------|------|-----|
| Hardwick | 74 | 1 |
| Cabot | 595 | |
| 12-Aug | | |
| Montpelier | 270 | 1 |
| Barre City | 135 | 1 |
| 11-Aug | | |
| Montpelier | 477 | 1 |
| Cambridge | 321 | 1 |
| 10-Aug | | |
| Barre City | 43 | 1 |
| 9-Aug | | |
| Ludiow | 154 | 1 |
| Londonderry | 62 | 1 |
| Cavendish | 476 | 1 |
| 8-Aug | | |
| Barre City | 80 | 1 |
| 7-Aug | | |
| Ludlow | 230 | 1 |
| Cabot | 124 | ()# |
| 5-Aug | | |
| Ludlow | 893 | 1 |
| Chelsea | 436 | 1 |
| 4 Aug | | |
| Montpelier | 1200 | 2 |
| Barre Town | 16 | 1 |
| 3-Aug | | 1 |
| Montpelier | 598 | 2 |
| 2-Aug | 400 | 4 |
| Montpelier | 406 | 2 |

NO. OF

29-Jul

31-Jul

1-Aug

Barre Town

Waterbury

Barre Town

Barre Town

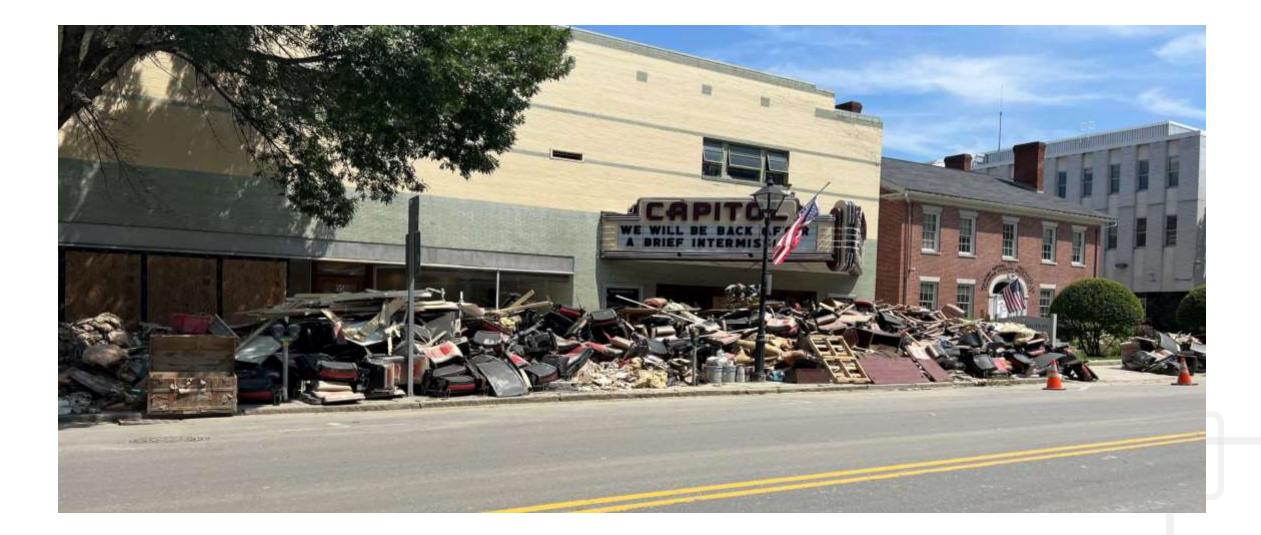
CONTAINERS CONTRACT

410 237

537

518













































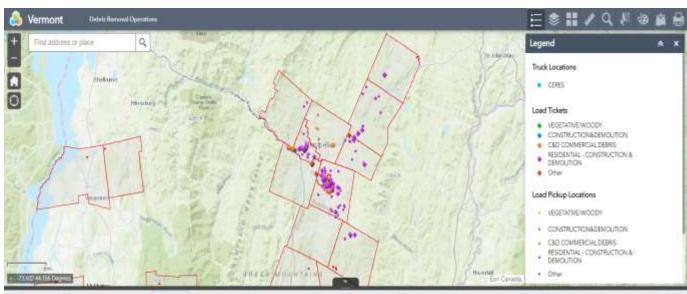






Customizable Reports

Geoportal Debris Tracking



Monter Leading Text Leading Cov Leading Lead Tokin Lead Tokin Lead Texture Head Texture Tokin Project Down Project Device Statistics Incidents Damage to Project Devices - Damage to Project Devi

| Chetrue C | Clettid | RejectiO | Ticket/Lumber | TroiveDuty | Ciert | Contactor | Sub1 | SubJ | DocumentFormat | Traditionber | TruckCapacity | GPS | ColAddress | DebraType |
|-----------|---------|----------|---------------|-----------------------|---------------------|-----------|------------|--------------|----------------|--------------|---------------|-----------------|------------|---|
| 61 | 193 | 240 | 9255503 | 7/20/2023, 9:19 AM | STATE OF VERMONT | CERES | TREES # US | 34LMGBDV8JDJ | 3 | 758903 | 6.00 | 44,263636,72,57 | | RESIDENTIAL CONSTRUCTION & DEVIOUTION |
| 61 | 193 | 340 | 9255504 | 7/20/2023, 9-20 AM | STATE OF VERMONT | CERES | TREES # US | 34LMGEDV8JDJ | 3 | 758904 | 0.00 | 44,263423,72.57 | | RESIDENTIAL CONSTRUCTION & DEMOLITION |

413 Postures Displacement

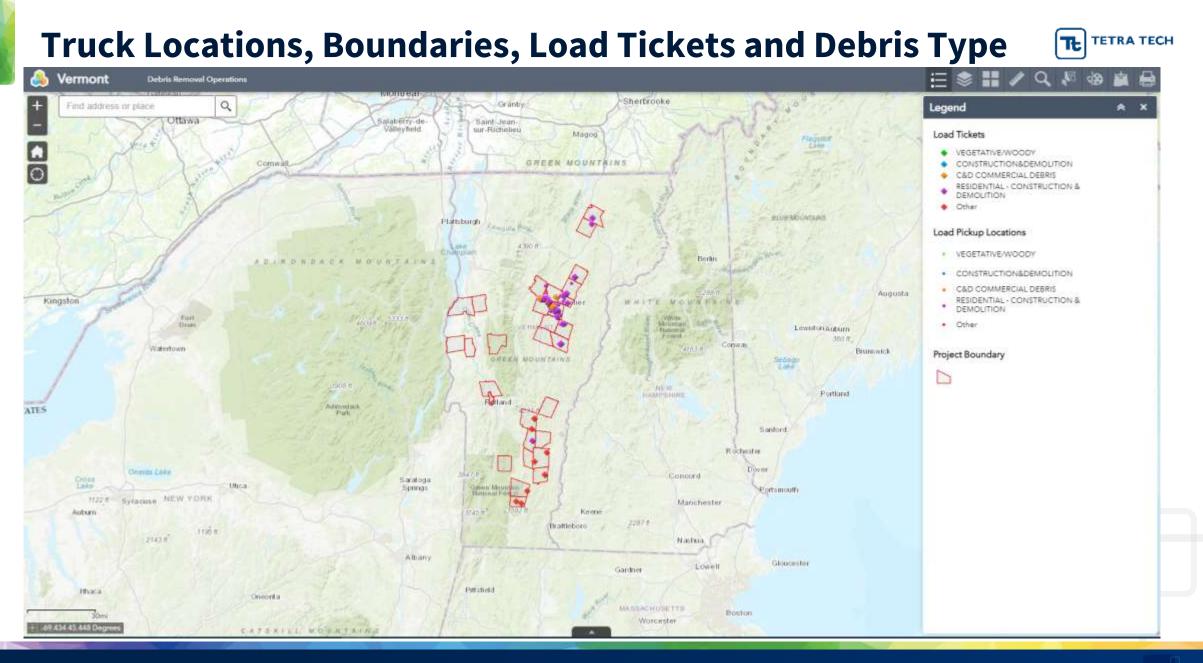
RecoveryTrac

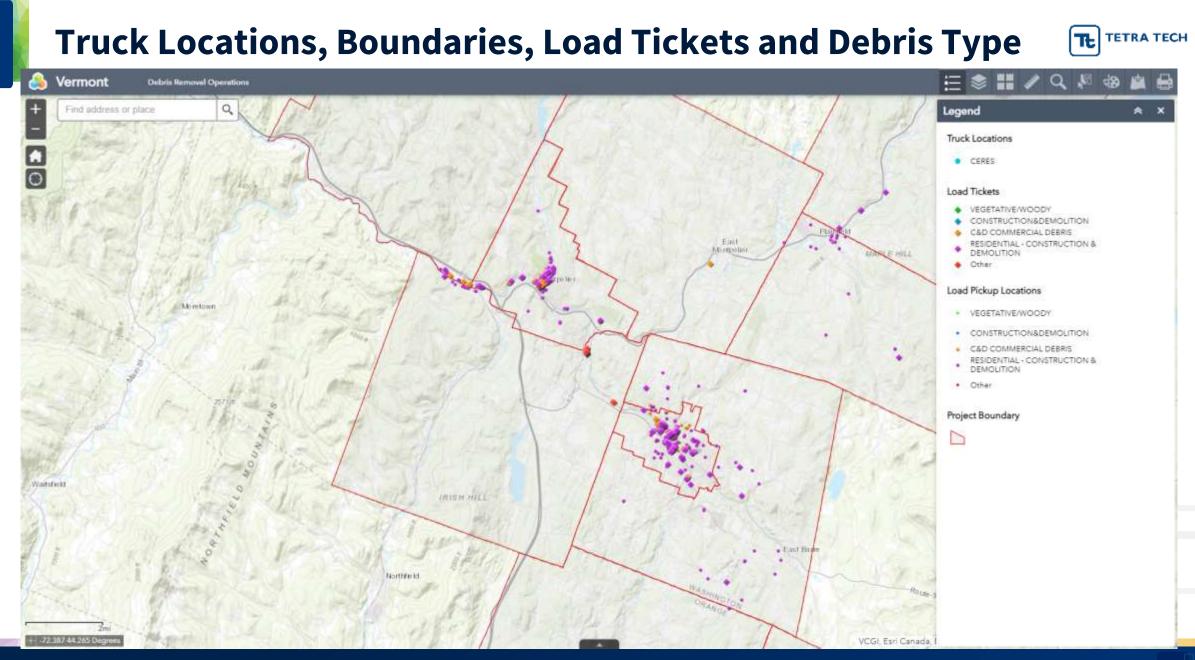


Custom Reporting



IN 2022 2021 by time Set to: All Sprine particing from accordingtor.







Lessons Learned



23

Issues for Discussion



Commercial Debris Removal Private Property Debris Categorical Disposal Tonnage vs. CY Capacity at Disposal Sites Farmers Fields/Agricultural

Household Hazardous Waste

Role of EPA

Spill Teams

Waterway Debris

Role of NRCS