DAVIDSON COUNTY
SOLID WASTE REGION BOARD

# ANNUAL PROGRESS REPORT

2024

NASHVILLE DEPARTMENT OF WASTE SERVICES

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# ABOUT SOLID WASTE REGION BOARDS

**The 1991 Solid Waste Management Act required Tennessee Counties to form municipal solid waste regions. While some regions are multi-county solid waste regions, many counties in Tennessee formed a single county region. This was the case with Davidson County.**

**Solid waste regions were required to appoint a board that represented the cities and county within the region and to administer the activities of the solid waste planning region. Members serve for a six-year term (TCA 68-211-813).**

**The roles of the solid waste region board are the following:**

1. Create a 10 Year Solid Waste Management Plan to reduce waste entering MSW landfills by 25% and ensure adequate disposal capacity. Each year the region board is required to submit an "Annual Progress Report" the Tennessee Department of Environment and Conservation describing any changes in the 10 Year Plan, current recycling and disposal data and future needs for the region.

2. Review permit applications for solid waste disposal facilities or incinerators within the region. The board is required to review the application against the 10 Year Plan and determine whether the application is in compliance with the plan and TCA 68-211-814.

3. Flow control or restricting import/export of solid waste across the region's boundaries. Davidson County does not restrict the movement of solid waste.

**State law also allowed for the creation of solid waste authorities. Solid waste authorities are entities having administrative, financial, and technical power to implement regional solid waste plans and programs. Davidson County did not opt for a solid waste authority.**

**More information on the Davidson County Solid Waste Region Board and the current Solid Waste Management Plan can be found at nashville.gov/departments/water/boards/solid-waste-region-board**

# RESIDENTIAL RECYCLING AND DIVERSION

# County and Municipal Residential Recycling and Diversion

version 1.17

**(Submission #: HQA-VZN3-51943, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-VZN3-51943 |
| **Alternate Identifier** | Davidson |
| **Status** | Draft |

## Form Input

### Report Information

**County**
Davidson

**Report Year**
2024

> Are you representing a single municipality? Yes/No: Individual municipalities entering their own data select yes and complete the next form. Report authors/county officials entering for multiple municipalities so "No" here.

**Are you representing a single municipality?**
No

### Residential Recycling and Diversion (1 of 5)

**County-level or Municipality?**
County

**Contact Name**

**Name**
Clayton Hand
**Title**
Engineer

**Address**

1915 Cement Plant Road
Nashville, Tennessee 37208
Davidson

**Recycling**

| Material | Material Weight | Unit Type | Tons | Material Collected Curbside? |
|---|---|---|---|---|
| Single Stream | 12,261.61 | TONS | 12,261.61 | Yes |
| Single Stream | 1,166.17 | TONS | 1,166.17 | No |

| Material | Material Weight | Unit Type | Tons | Material Collected Curbside? |
|---|---|---|---|---|
| MRF Glass (Tri-Color) Cullet | 1,694.53 | TONS | 1,694.53 | No |
| Mixed Paper PS-54 (MP) | 819.32 | TONS | 819.32 | No |
| Old Corrugated Containers PS-11 (OCC) | 2,705.64 | TONS | 2,705.64 | No |
| Non-Ferrous - Mixed Metals | 848.96 | TONS | 848.96 | No |
| HHW | 22.32 | TONS | 22.32 | No |
| Electronics/E-scrap | 443,740.00 | LBS | 221.87 | No |
| Mattresses | 358.24 | TONS | 358.24 | No |
| Agricultural, Landscape, and Yard Trimmings | 20,459.88 | TONS | 20,459.88 | Yes |
| Agricultural, Landscape, and Yard Trimmings | 2,874.06 | TONS | 2,874.06 | No |
| Food Waste (Composted) | 665,280.00 | LBS | 332.64 | No |
| Fats, Cooking Oil, and Greases (FOG's) | 1,670.00 | GALLONS | 5.26 | No |
| | | | Sum: 43,770.50 | |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Cartons
Aluminum Cans
Mixed Paper
Plastic Containers: Resins #1 and 2
Tin Cans

**Disaster Debris**

| Select Debris Type | Enter Weight | Weight Type | Total Tons |
|---|---|---|---|
| *NONE PROVIDED* | *NONE PROVIDED* | *NONE PROVIDED* | 0.00 |
| | | | Sum: 0 |

**Comments**
753.03 tons of plastic bottle and metal cans collected together at the drop-offs and convenience centers were included in the Single Stream, Materials Collected Curbside - No

Metro Water's FOG contractor uses 7.7 gal/lb. for the fats, oils and grease.
As such, 1,670 gallons FOG equates to 6.43 tons.

Mattresses:
13,027 mattresses X 55 lbs/unit => 358.24 tons

## Residential Recycling and Diversion (2 of 5)

**County-level or Municipality?**
Municipality

**Municipality**
Goodlettsville

**Contact Name**
**Name**
Julie Smith
**Title**
Administrative Services Coordinator

**Address**

105 South Main Street
Goodlettsville, Tennessee 37072
Davidson

**Recycling**

| Material | Material Weight | Unit Type | Tons | Material Collected Curbside? |
|---|---|---|---|---|
| Single Stream | 447.83 | TONS | 447.83 | Yes |
| Non-Ferrous - Mixed Metals | 100.18 | TONS | 100.18 | No |
| Non-Ferrous Scrap - Red Metal, Copper | 1.00 | TONS | 1.00 | No |
| Non-Ferrous - All Other Aluminum | 2.20 | TONS | 2.20 | No |
| Old Corrugated Containers PS-11 (OCC) | 41.99 | TONS | 41.99 | No |
| Used Oil | 0.69 | TONS | 0.69 | No |
| | | | Sum: 593.89 | |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Cartons
Aluminum Cans
Mixed Paper
Plastic Containers: Resins #1 and 2
Tin Cans

**Disaster Debris**

| Select Debris Type | Enter Weight | Weight Type | Total Tons |
|---|---|---|---|
| *NONE PROVIDED* | *NONE PROVIDED* | *NONE PROVIDED* | 0.00 |
| | | | Sum: 0 |

**Comments**
*NONE PROVIDED*

## Residential Recycling and Diversion (3 of 5)

**County-level or Municipality?**
Municipality

**Municipality**
Belle Meade

**Contact Name**

**Name**
Jennifer Moody
**Title**
City Manager

**Address**

4705 Harding Road
Nashville, Tennessee 37205
Davidson

**Recycling**

| Material | Material Weight | Unit Type | Tons | Material Collected Curbside? |
|---|---|---|---|---|
| Old Corrugated Containers PS-11 (OCC) | 62.40 | TONS | 62.40 | No |
| Single Stream | 52.94 | TONS | 52.94 | Yes |
| | | | Sum: 115.34 | |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Cartons
Aluminum Cans
Mixed Paper
Plastic Containers: Resins #1 and 2
Tin Cans

**Disaster Debris**

| Select Debris Type | Enter Weight | Weight Type | Total Tons |
|---|---|---|---|
| *NONE PROVIDED* | *NONE PROVIDED* | *NONE PROVIDED* | 0.00 |
| | | | Sum: 0 |

**Comments**
The city collects carboard in two 8 cubic yard dumpsters. The two full dumpsters are emptied 3 times a week every week.
2x8x3x52=2,496 cu yd
Loose OCC is 50 lb/cu yd.

## Residential Recycling and Diversion (4 of 5)

**County-level or Municipality?**
Municipality

**Municipality**
Oak Hill

**Contact Name**
**Name**
J. Steven Collie
**Title**
City Manager

**Address**
5548 Franklin Pike
Nashville, Tennessee 37220
Davidson

**Recycling**

| Material | Material Weight | Unit Type | Tons | Material Collected Curbside? |
|---|---|---|---|---|
| Single Stream | 203.10 | TONS | 203.10 | Yes |
| | | | Sum: 203.10 | |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Cartons
Aluminum Cans
Mixed Paper
Plastic Containers: Resins #1 and 2
Tin Cans

**Disaster Debris**

| Select Debris Type | Enter Weight | Weight Type | Total Tons |
|---|---|---|---|
| *NONE PROVIDED* | *NONE PROVIDED* | *NONE PROVIDED* | 0.00 |
| | | | Sum: 0.00 |

**Comments**
*NONE PROVIDED*

## Residential Recycling and Diversion (5 of 5)

**County-level or Municipality?**
Municipality

**Municipality**
Forest Hills

**Contact Name**
**Name**
Mark Hill
**Title**
City Manager

**Address**
6300 Hillsboro Road
Nashville, Tennessee 37215
*[NO COUNTY SPECIFIED]*

**Recycling**

| Material | Material Weight | Unit Type | Tons | Material Collected Curbside? |
|---|---|---|---|---|
| Non-Ferrous - Mixed Metals | 1.61 | TONS | 1.61 | No |
| Mattresses | 0.22 | TONS | 0.22 | No |
| Electronics/E-scrap | 0.76 | TONS | 0.76 | No |
| | | | Sum: 2.59 | |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Disaster Debris**

| Select Debris Type | Enter Weight | Weight Type | Total Tons |
|---|---|---|---|
| *NONE PROVIDED* | *NONE PROVIDED* | *NONE PROVIDED* | 0.00 |
| | | | Sum: 0.00 |

**Comments**
Recyclables collected at city hall events twice a year.

# COUNTY INFRASTRUCTURE

# County Infrastructure

version 1.12

**(Submission #: HQA-PJ4Y-RZ01N, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Jenn Harrman |
| **Submission ID** | HQA-PJ4Y-RZ01N |
| **County** | Davidson |
| **Status** | Draft |

## Form Input

### County Information

**County Name**
Davidson

**Report Year**
2024

**County Contact**

| First Name | Last Name |
|---|---|
| Clayton | Hand |

**Title**
Engineer

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6158628623 | |

**Email**
clayton.hand@nashville.gov

**Address**

1600 2nd Ave N

Nashville, Davidson 37208

**Do your local governments provide curbside for recycling or solid waste?**
Yes

**Type of curbside recycling or solid waste for services provided by local governments.**
City Curbside Recycling
City Curbside Waste Collection
County Curbside Recycling
County Curbside Waste Collection

**Comments**
County curbside collections are provided to Urban Services District

**Are there local government run convenience centers?**
Yes

**Are there local government run recycling centers?**
Yes

**Are there local government run green box sites?**
No

## County Convenience Centers (1 of 5)

### Metro East Center Convenience Center

**County Convenience Center Name**
Metro East Center Convenience Center

**County Convenience Center Permit Number**
CCC190000167

**Convenience Center Address**

> 943A Doctor Richard G. Adams Drive
>
> Nashville, TN 37207

**Location**
36.207192,-86.746495

**Does the County Collect Household Garbage?**
Yes

**Enter the number of residents that used the site annually.**
41,642

**Materials Accepted**
Metal
Aluminum
OCC
Mixed Paper
Glass
Used Oil
Antifreeze
Transmission Fluid
Electronics/E-scrap
Mattresses
Lead-Acid
Dry Cell
Grease/Cooking Oil
HHW
PET #1
HDPE #2

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | 08:30 am | 04:30 pm |
| Wednesday | 08:30 am | 04:30 pm |
| Thursday | 08:30 am | 04:30 pm |
| Friday | 08:30 am | 04:30 pm |
| Saturday | 08:30 am | 04:30 pm |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
All Convenience Centers are closed on Metro holidays.

## County Convenience Centers (2 of 5)

### Anderson Lane Convenience Center

**County Convenience Center Name**
Anderson Lane Convenience Center

**County Convenience Center Permit Number**
CCC190000168

**Convenience Center Address**

939 Anderson Lane

Nashville, TN 37115

**Location**
36.272778,-86.686389

**Does the County Collect Household Garbage?**
Yes

**Enter the number of residents that used the site annually.**
46,215

**Materials Accepted**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | 08:30 am | 04:30 pm |
| Wednesday | 08:30 am | 04:30 pm |
| Thursday | 08:30 am | 04:30 pm |
| Friday | 08:30 am | 04:30 pm |
| Saturday | 08:30 am | 04:30 pm |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
All Convenience Centers are closed on Metro holidays.

## County Convenience Centers (3 of 5)

### Omohundro Convenience Center

**County Convenience Center Name**
Omohundro Convenience Center

**County Convenience Center Permit Number**
CCC190000484

**Convenience Center Address**

> 1019 OMOHUNDRO PLACE
>
> Nashville, TN 37210

**Location**
36.157486,-86.739845

**Does the County Collect Household Garbage?**
Yes

**Enter the number of residents that used the site annually.**
31,338

**Materials Accepted**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass
Electronics/E-scrap
Grease/Cooking Oil
Mattresses

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | 08:30 am | 04:30 pm |
| Wednesday | 08:30 am | 04:30 pm |
| Thursday | 08:30 am | 04:30 pm |
| Friday | 08:30 am | 04:30 pm |
| Saturday | 08:30 am | 04:30 pm |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
All Convenience Centers are closed on Metro holidays.

## County Convenience Centers (4 of 5)

### Ezell Pike Convenience Center

**County Convenience Center Name**
Ezell Pike Convenience Center

**County Convenience Center Permit Number**
CCC190000566

**Convenience Center Address**

> 3254 Ezell Pike
>
> Nashville, TN 37211

**Location**
36.0862,-86.6864

**Does the County Collect Household Garbage?**
Yes

**Enter the number of residents that used the site annually.**
34,575

**Materials Accepted**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass
Used Oil
Antifreeze
Transmission Fluid
Electronics/E-scrap
Mattresses
Lead-Acid
Dry Cell
Grease/Cooking Oil
HHW

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Tuesday | 08:30 am | 04:30 pm |
| Wednesday | 08:30 am | 04:30 pm |
| Thursday | 08:30 am | 04:30 pm |
| Friday | 08:30 am | 04:30 pm |
| Saturday | 08:30 am | 04:30 pm |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
All Convenience Centers are closed on Metro holidays.

## County Convenience Centers (5 of 5)

### City of Goodlettsville Convenience Center

**County Convenience Center Name**
City of Goodlettsville Convenience Center

**County Convenience Center Permit Number**
CCC190000586

**Convenience Center Address**

> 218 Connell St.
>
> Goodlettsville, TN 37072

**Location**
36.3262799,-86.7084082

**Does the County Collect Household Garbage?**
Yes

**Enter the number of residents that used the site annually.**
500

**Materials Accepted**
Metal
Aluminum
OCC
Mixed Paper
Electronics/E-scrap
PET #1
HDPE #2
PVC #3
LDPE #4
PP #5
PS #6
ABS #7

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | 11:00 am | 04:00 pm |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | 08:00 am | 03:00 pm |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
Goodlettsville does not track visitors so this is a general estimate.

## Recycling Centers (1 of 7)

### Hillsboro High School

**County-level or Municipality?**
County

**Site Name**
Hillsboro High School

**Location Address**
3812 Hillsboro Pk
Nashville, TN 37215

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | 08:00 am | 06:00 pm |
| Tuesday | 08:00 am | 06:00 pm |
| Wednesday | 08:00 am | 06:00 pm |
| Thursday | 08:00 am | 06:00 pm |
| Friday | 08:00 am | 06:00 pm |
| Saturday | 08:00 am | 06:00 pm |
| Sunday | 08:00 am | 06:00 pm |

**If you have any opening or closing hours that are different from those above, please describe below**
The drop-off closes at 5:00 PM in the Winter.

**Location**
36.1069003,-86.8106578

## Recycling Centers (2 of 7)

### WeGo Bellevue Park and Ride

**County-level or Municipality?**
County

**Site Name**
WeGo Bellevue Park and Ride

**Location Address**

> 7650 Coley Davis Rd
> Nashville, TN 37221

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | *NONE PROVIDED* | *NONE PROVIDED* |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
24 hours, every day

**Location**
36.0808658,-86.952747

## Recycling Centers (3 of 7)

### Granbery Elementary School

**County-level or Municipality?**
County

**Site Name**
Granbery Elementary School

**Location Address**
5501 Hill Rd
Brentwood, TN 37027

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | 09:00 am | 12:00 pm |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
*NONE PROVIDED*

**Location**
36.0466541,-86.75365819999999

## Recycling Centers (4 of 7)

### Joelton Middle School Drop Off

**County-level or Municipality?**
County

**Site Name**
Joelton Middle School Drop Off

**Location Address**
3500 Old Clarksville Pk
Joelton, TN 37080

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | *NONE PROVIDED* | *NONE PROVIDED* |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
24 hours, every day

**Location**
36.3144855,-86.8659804

## Recycling Centers (5 of 7)

### Lakewood City Hall

**County-level or Municipality?**
County

**Site Name**
Lakewood City Hall

**Location Address**
3401 Old Hickory Blvd
Old Hickory, TN 37138

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | *NONE PROVIDED* | *NONE PROVIDED* |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
24 hours, every day

**Location**
36.2428541,-86.6359571

## Recycling Centers (6 of 7)

### McGavock High School

**County-level or Municipality?**
County

**Site Name**
McGavock High School

**Location Address**
3150 McGavock Pk
Nashville, TN 37214

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | *NONE PROVIDED* | *NONE PROVIDED* |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
24 hours, every day

**Location**
36.1857889,-86.678066

## Recycling Centers (7 of 7)

### Whites Creek High School Drop Off

**County-level or Municipality?**
County

**Site Name**
Whites Creek High School Drop Off

**Location Address**
7277 Old Hickory Blvd
Whites Creek, TN 37189

**Material Types**
Metal
Aluminum
PET #1
HDPE #2
OCC
Mixed Paper
Glass

**Hours of Operation**

| Day of the Week | Open Time | Close Time |
|---|---|---|
| Monday | *NONE PROVIDED* | *NONE PROVIDED* |
| Tuesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Wednesday | *NONE PROVIDED* | *NONE PROVIDED* |
| Thursday | *NONE PROVIDED* | *NONE PROVIDED* |
| Friday | *NONE PROVIDED* | *NONE PROVIDED* |
| Saturday | *NONE PROVIDED* | *NONE PROVIDED* |
| Sunday | *NONE PROVIDED* | *NONE PROVIDED* |

**If you have any opening or closing hours that are different from those above, please describe below**
24 hours, every day

**Location**
36.2763875,-86.81861409999999

# COUNTY OPERATIONS

# County Operations

version 1.11

**(Submission #: HQA-PJ44-T6FT8, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Jenn Harrman |
| **Submission ID** | HQA-PJ44-T6FT8 |
| **County** | Davidson |
| **Status** | Draft |

## Form Input

### County

**County**
Davidson

**Report Year**
2024

### Obstacles (1 of 1)

**`MUNI`**

**County-level or Municipality?**
County

**Obstacles**
Staff
Markets
Funding
Education
Other: Infrastructure
Citizen Apathy
Lack of Support

**Comments**
Ability to recycle more is hampered by the lack of infrastructure and markets available to accept more material which is perhaps our biggest obstacle for diversion. However, each of these obstacles listed poses some obstacle in one way or another. The county solid waste program is currently funded under the general fund, limiting the ability to expand programs or invest in county-owned infrastructure. While politically diversion is supported, the nuts and bolts of running a solid waste management program are not well understood which has lead to lack of support for the resources needed including staff to accomplish those diversion goals. Citizen apathy coming from mistrust at a national level and therefore local and state level about the reality of recycling and whether or not it is really worth it is prevalent and requires significant culture and behavior change to increase diversion. While education efforts have reduced contamination levels in recycling and increased diversion of food scraps, what you can and cannot recycle is a constant struggle to educate residents, especially as our county grows at 100 people a day from all over the country and different recycling programs.

## Composting (1 of 1)

**`MUNI`**

**County-level or Municipality?**
County

**MATERIALS COLLECTED OR DIVERTED (CHECK ALL THAT APPLY)***
Bio-Solids
Yard-trimmings
Post-consumer food and produce

**WHO PERFORMS THE SERVICES? (CHECK ALL THAT APPLY)***
Publicly Operated
Private Ownership and Private Operation

**PRODUCTS PRODUCED (CHECK ALL THAT APPLY)***
Mulch
Land Application
Compost

**Does the county or its municipalities offer assistance for backyard composting?***
Yes

## Disaster Debris or Storm Event

**In the last year, did a disaster debris or storm event increase the tonnage of organics diversion or disposal for the county or its municipalities?**
No

**Does your local government have a disaster debris plan according to TCA 68-211-815 (b) (16)?**
Yes

**Has the County submitted a draft to TDEC to file?**
Yes

**Upload Current DDMP**
NDOT Metro Nashville Debris Mgmt Plan 2021.pdf - 03/05/2025 11:21 AM
**Comment**
*NONE PROVIDED*

## Education Efforts (1 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Sustainable in the City

**Program Sponsor**
Nashville Department of Waste Services

**Program Objective**
Sustainable in the City Podcast highlights local residents doing sustainable things to empower small sustainable actions that make a big difference.

**Number Served**
500-10000

**Program Type**
Community Outreach
Other: Podcast Series
Website
Social Media

**Focus Area**
Recycling
Organics
Operational Functions (use of CCC, HHW Events, etc.)
Source Reduction
Diversion
Solid Waste

**Program Target Audience**
Adult/General Public

**Comments**
This monthly podcast series is hosted in partnership with a local non-profit and has featured topics from waste reduction to curbside compost collection to litter clean ups. Each episode has averaged 120 individual downloads which has increased listenership from the previous livestream format by approximately 40 listeners per episode.

## Education Efforts (2 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Dirt On Composting

**Program Sponsor**
Nashville Department of Waste Services

**Program Objective**
Teach Nashvillians how to get started composting and engage more residents in drop-off composting programs to divert food scraps and other organic materials. Program also includes a chance to win a free compost bin to further incentivize residents to compost. The program is also both virtually on-demand and available in person or virtual for private groups. On demand watchers are linked to a quiz to test their knowledge and enter a chance for monthly compost bin drawings.

**Number Served**
50-100

**Program Type**
Workshops
Website
Brochures
Special Events
Social Media
Community Outreach

**Focus Area**
Organics
Source Reduction

**Program Target Audience**
Adult/General Public
Children/Educators Media

**Comments**
*NONE PROVIDED*

## Education Efforts (3 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Event tabling

**Program Sponsor**
Nashville Department of Waste Services

**Program Objective**
To provide the public information about recycling, composting, waste reduction and waste services operations across the county at neighborhood events. Events are selected that prioritize local attendance by the residents we serve and prioritize areas underserved by our resources.

**Number Served**
500-10000

**Program Type**
Community Outreach
Special Events

**Focus Area**
Solid Waste
Diversion
Organics
Recycling
Source Reduction
Operational Functions (use of CCC, HHW Events, etc.)

**Program Target Audience**
Adult/General Public

**Comments**
This activity offers the department multiple opportunities to reach diverse audiences all across the county. We also have resources available to help reach residents that may not have English as their first language. Events give us the opportunity to reach residents in their own communities and answer questions about all of our solid waste and diversion programs, building trust and transparency in the services we provide.

## Education Efforts (4 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Recycle Right Nashville

**Program Sponsor**
Nashville Department of Waste Services

**Program Objective**
To teach Nashvillians that use Metro's recycling programs how to recycle correctly, build trust in the recycling program, increase amount of material collection, reduce contamination in recycling, and increase program participation.

**Number Served**
County-Wide

**Program Type**
Signage
Classroom
Mailings
Brochures
Community Outreach
Newspaper
Special Events
Website
Workshops
Social Media
Public Access

**Focus Area**
Recycling
Source Reduction

**Program Target Audience**
Adult/General Public
Government/Institutional
Civic/Environment
Business/Industry
Children/Educators Media

**Comments**
The Recycle Right campaign is threaded throughout all of the outreach we do. This includes tips in our monthly newsletter, guidance on social media, virtual and in person presentations, signage at all of our centers, brochures and handouts, tours of the recycling facility at least twice a year, earned media events, resources for educators and businesses, and interagency outreach. Through this effort we have dramatically reduced contamination rates in the recycling stream and will be expanding efforts using TDEC grant funds to implement a multi-lingual PSA ad in 6 different languages spoken in Nashville.

## Education Efforts (5 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Drop-off Recycling Tabling

**Program Sponsor**
Nashville Department of Waste Services

**Program Objective**
Educate residents that use Metro drop-off recycling sites or convenience centers about how to recycle right at the drop off. This includes reminding residents not to bag their recycling and that materials need to be sorted into the correct bins at the drop offs.

**Number Served**
50-100

**Program Type**
Community Outreach
Special Events
Brochures

**Focus Area**
Recycling
Diversion
Operational Functions (use of CCC, HHW Events, etc.)

**Program Target Audience**
Adult/General Public

**Comments**
*NONE PROVIDED*

## Education Efforts (6 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Cafeteria Composting Pilot Program

**Program Sponsor**
Nashville Department of Waste Services and Metro Nashville Mayor's Office

**Program Objective**
Teach students, teachers, staff, and cafeteria volunteers how to compost in the cafeteria to increase diversion of food scraps and rescue of uneaten food. This program aims to both demonstrate the capacity for MNPS schools to compost as well as build best practices and recommendations for implementation throughout the entire school district.

**Number Served**
500-10000

**Program Type**
Classroom
Community Outreach

**Focus Area**
Organics
Source Reduction

**Program Target Audience**
Children/Educators Media

**Comments**
Currently 9 schools are involved in the pilot program and over 40,000 pounds of food scraps have been collected for composting in the first half of the school year in 2024.

## Education Efforts (7 of 7)

**`MUNI`**

**County-level or Municipality?**
County

**Program Name**
Food Scraps Pickup Pilot Program

**Program Sponsor**
Nashville Department of Waste Services

**Program Objective**
Educate and engage residents that receive curbside trash and recycling service in a curbside organics collection program to gather data on how to expand organics collection across our entire service area.

**Number Served**
500-10000

**Program Type**
Brochures
Community Outreach
Website
Social Media
Special Events

**Focus Area**
Organics

**Program Target Audience**
Adult/General Public

**Comments**
While this program is a small collections program, the educational component has been a significant aspect of the pilot. This includes educating the public about why we are conducting this program and what other resources are available for residents that are not in the pilot. For residents in the pilot, they received a fridge magnet, composting guide, and e-news mailers about the service and its benefit to diversion. The program has earned a significant number of media interviews that has resulted in significant interest in the program and added capacity to advertise our drop-off composting program available for residents.

## Funding for Programs (1 of 1)

**`MUNI`**

**County-level or Municipality?**
County

**How is the program funded?**

| How is the program funded? (select all that apply) | Total Funding ($) |
|---|---|
| Property Taxes/General Fund | 40,722,200.00 |
| Surcharge (§68-211-835) | 4,945,137.76 |
| Per Household Charges | 62,861.00 |
| Disposal Fee (§68-211-835) | 2,125,300.73 |
| Other: Developer Fees for Permit Review | 164,130.00 |
| Other: Private Collection Permits | 204,916.20 |

## Contracts (1 of 1)

**`MUNI`**

**County-level or Municipality?**
County

**Please complete the following for the county or each municipality:**

| CONTRACTOR | BUDGETED CONTRACT AMOUNT | CONTRACT START | CONTRACT END | TYPE OF CONTRACT |
|---|---|---|---|---|
| Republic | 7081100 | 01/15/2002 | 06/30/2027 | Contract |

| CONTRACTOR | BUDGETED CONTRACT AMOUNT | CONTRACT START | CONTRACT END | TYPE OF CONTRACT |
|---|---|---|---|---|
| Waste Management | 2500000 | 11/04/2015 | 11/03/2025 | Contract |
| American Compactor | 60000 | 05/22/2021 | 05/21/2026 | Contract |
| Liberty Tire | 3000000 | 06/02/2021 | 06/01/2026 | Contract |
| Dynamic Recycling | 300000 | 10/19/2021 | 10/18/2026 | Contract |
| Southeastern Recycling | 45000 | 12/03/2021 | 12/02/2026 | Contract |
| Tradebe Treatment and Recycling | 800000 | 02/22/2022 | 02/21/2027 | Contract |
| Waste Management | 7500000 | 07/01/2022 | 05/17/2027 | Contract |
| Waste Pro | 7500000 | 07/20/2022 | 07/19/2027 | Contract |
| Compost Nashville | 350000 | 08/30/2022 | 08/29/2027 | Contract |
| The Compost Company | 500000 | 09/28/2022 | 08/27/2027 | Contract |

**SERVICES PROVIDED**
Disposal
Organics Collection
E-SCRAP
Recycling
Refuse Collection

## Budget (1 of 1)

**`MUNI`**

**County-Level or Municipality?**
County

**Complete the following section for the county and its municipalities that provide solid waste and/or recycling services**

| Number of Employees | Services | Full Time or Part Time? |
|---|---|---|
| 120 | Recycling | Full Time |

**Provide a brief explanation of employee roles noted above, if necessary:**
Staff do a combination of both solid waste and recycling collection. They are not designated to either trash or recycling.

## Last Fiscal Year's Solid Waste and Sanitation Fund

**Budget**

Monthly Revenue FY 2024.pdf - 03/03/2025 04:22 PM
FY24 Actuals for JH 03-05-25 for annual report.pdf - 03/05/2025 03:54 PM

**Comment**

*NONE PROVIDED*

# Attachments

| Date | Attachment Name | Context | User |
|---|---|---|---|
| 3/5/2025 3:54 PM | FY24 Actuals for JH 03-05-25 for annual report.pdf | Attachment | Jenn Harrman |
| 3/5/2025 11:21 AM | NDOT Metro Nashville Debris Mgmt Plan 2021.pdf | Attachment | Jenn Harrman |
| 3/3/2025 4:22 PM | Monthly Revenue FY 2024.pdf | Attachment | Jenn Harrman |

# ANNUAL PROGRESS REPORT AND GRANT QUESTIONNAIRES

# APR and Grant Questionnaires

version 1.10

**(Submission #: HQA-PJ58-3DYDB, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Jenn Harrman |
| **Submission ID** | HQA-PJ58-3DYDB |
| **County** | Davidson |
| **Status** | Draft |

## Form Input

### APR Questionnaire

**County Name**
Davidson

**Report Year**
2024

**1. Are there any policies, statutes, rules, protocols or ordinances that inhibit the county and municipalities from having effective programs? Reference specific statues, rules, policies or documents when answering the question.**
HB1021– This restricts local governments from adopting policies to regulate the use and sale of auxiliary containers, which is defined to include plastic bags and straws, from food and food service establishments. Plastic bags, single-use plastic utensils, and straws are not currently able to be recovered for recycling in the Middle Tennessee region, and they are unable to be regulated so are becoming waste to landfill or ending up as litter or in waterways. This policy specifically prohibits our ability to enact policies that support our Solid Waste Management Plan and efforts to reduce waste to MSW landfills. Downtown Nashville continues to be a significant generator of waste from glass bottles and this policy prevents our ability to minimize this excessive waste.

68-101-109: Labeling of Plastic Containers - This labeling continues to be misleading regarding the recyclability of materials. This confuses our customers on what can and cannot be recycled, increases contamination in recycling which directly affects the costs of the program, and creates a lack of confidence and trust in our program from our customers who see us as limiting what we can recycle, rather than only accepting materials that are actually recyclable.

**2. Are there any parts or utility of the 10 Year Solid Waste and Materials Management Statewide Plan, Plan Update or Annual Progress Report the county and municipalities do not understand?**
No.

**3. What role can Materials Management play to be the biggest resource to the county and its municipalities?**
Support for outreach efforts
Landfill permitting and regulatory compliance comes up regularly in Davidson County, particularly in North Nashville/Bordeaux where we have an open C&D landfill privately operated and the closed Bordeaux landfill. As we look to move new policy forward that addresses diversion, this includes outreach to this community to make certain strides. It would be helpful if resources could be provided to assist with helping community members understand varying questions and misinformation around landfill permitting as well as have staff available to attend occasional public meetings to support local efforts. While these issues run deeper than permitting, having more context from the state perspective that regulates landfills would be helpful as we work to build trust with these communities.

Funding Infrastructure Investment
The recent addition of the Waste Reduction grant is a great stride towards assisting local infrastructure investment in recycling equipment desperately needed. The grant awards are also much more on par to support the equipment purchase. Any additional resources to help fund infrastructure investment in recycling processing and markets to build access to diversion for the region would be of great benefit. Without any Metro owned infrastructure, we are currently beholden to the investment of private contractors that do not have the same goals as the county and therefore have not invested in significant improvements to increase diversion. This limits our ability to collect more recyclable material, because they do not accept it or recycle it including materials like glass and polypropylene.

Assist all counties with implementing curbside recycling
The more counties and municipalities that have programs, the more volume of material can flow into a facility given a natural economic incentive for more infrastructure investment. If the state can help counties or municipalities that don't have curbside recycling programs establish those programs, it would benefit all nearby counties and municipalities to recycle more. This could include connecting counties and municipalities with resources including grants, best practices, and contracting assistance.

**4. What areas would you like to see the Division of Solid Waste Management focus on in coming years to help the county and municipalities be successful implementing the Region's plan and programs?**

Statewide policy initiatives for diversion

Disposal capacity is a statewide issue impacting not just Davidson County. Statewide policy that drives diversion efforts more broadly to reduce landfill and increasing recycling, composting, and other waste reduction initiatives would be to the benefit of all regions including the Davidson County Solid Waste Region. This could include evaluating statewide bans on plastic bags, foam, and other single use items or implementing extended producer responsibility.

Construction and demolition waste

The state has defined use of Class III/IV landfills as diversion, but this material has higher and better uses making this a missed opportunity for recycling and true diversion of this material. Additionally, while these landfills may not have the same potential environmental impacts of a Class I landfill, the drywall component of these facilities creates nuisance odors that negatively impact our communities. Programs, policy, or initiatives around increasing the infrastructure and markets for recycling these materials would go a long way for reducing Class I landfilled material as there is even less Class III/IV capacity left in the state.

**5. What is needed in the county and municipalities to further waste reduction, recycling, diversion or end markets in Tennessee?**

Processing infrastructure

Facilities with processing equipment that can effectively sort and collect more commodities for recycling. This includes polypropylene, glass, and bulky plastics. We also need additional infrastructure to increase capacity to collect organics, such as an anaerobic digester, and C&D material.

Dedicated funding

Currently Davidson County's solid waste program is funded under the general fund and does not include fees for service. This limits funding for program expansion and infrastructure investment due to the competing needs of funding within Metro Nashville.

Diversion policy

Requirements both at the state and local level would go far to further diversion of materials by requiring beneficial use or reuse of materials.

Support for organics diversion in schools

With so many federal school lunch guidelines, MNPS students generate a significant amount of organic waste every day in the cafeteria. Any increased support to help schools build successful diversion programs would be beneficial to capture this material.

**6. §68-211-871(b) requires an annual progress report on the implementation of the regional comprehensive integrated municipal solid waste management plan. What steps are the county and municipalities taking locally to contribute to regional plan implementation?**

Standing up new department

The Metropolitan Council of Nashville and Davidson County enacted legislation to move solid waste functions under an independent agency within Metro. Having been a division of another department (currently Water Services, previously Public Works), solid waste functions have not had leadership dedicated specifically to solid waste efforts. By taking this step, Metro has been able to hire a director specific to managing solid waste activities for Davidson County and expand departmental capacity to operate autonomously from other Metro agencies. The development of a new department will ensure all functions of the department are solely focused on solid waste and diversion efforts, removing barriers created by competing priorities and lack of industry experience.

Evaluating contracts and infrastructure alternatives

As many contracts for recycling and collection efforts sunset, we are actively building out new contracts and scopes for work to require increased diversion efforts and evaluate alternative methods for implementing our diversion programs. This includes exploring the opportunities for Metro to own its own facilities to ensure higher diversion priorities are met. The department has applied for grant funding to advance these efforts and is exploring additional grant funding opportunities for infrastructure investment. These efforts also include piloting new collection and diversion strategies in downtown Nashville through collaborative partnerships.

Organics collection

Metro has been able to continue its pilot curbside organics collection program through the use of state grant funding as well as expand organics collection into a pilot program for Metro Nashville Public Schools thanks to philanthropic funding and the success of the curbside program. These programs not only provide increased diversion for the region, but also serve as points of education for the public about the importance of composting and waste diversion. Both programs are in process of evaluation to determine paths forward for expanded programing both curbside and in school cafeterias.

**7. Describe any success stories on programs or efforts made in the last year**
Creation of Nashville Department of Waste Services
The Mayor and Metro Council's commitment in establishing the Department of Waste Services underscores the importance of waste and recycling services as vital infrastructure that 1) contributes to improving quality of life within the community; and 2) is a valuable component of public health and safety as well as economic development.

In 2024, Metro Council adopted legislation formally establishing the creation of a new department and approved the hiring of several key leadership positions to stand the department up including a Director, Assistant Director, HR Manager, Finance Manager, Safety Coordinator, and Public Information Manager.

In summer of 2024, Metro launched a nation-wide search for a Director with knowledge and expertise in the solid waste industry that could advance waste reduction efforts and move the city towards more sustainable solid waste and recycling systems. From that search, the department hired a Director and Assistant Director in September of 2024. Additional leadership positions continue to be filled along with several support positions additionally approved.

Metro Council and the Mayor's Office has also supported programmatic and systematic changes across the new department to improve current operations and build a stronger organization that will help Nashville move towards its goal of zero waste.

Food Scraps Pickup Pilot
Originally planned as a one-year pilot, Nashville's Food Scraps Pickup Pilot's (FSPP) overwhelming success and community enthusiasm have led to its continuation beyond its initial timeframe

As of March 7, 2025, the FSPP has diverted 304,606 pounds of food scraps since collection began, with 224,973 pounds diverted during the first full year of the pilot. On average, each household diverts 6 pounds of food waste every week with a weekly set out rate of 85.44%. This rate of participation aligns with the set-out rates of CN’s regular paid customers and far surpasses set-out rates for regular curbside recycling which is below 50%. Contamination is also extremely low, averaging 0.24% per week compared to our recycling contamination rate which hovers just above 20%.

This program also spurred collection of food scraps across other agencies within Metro beyond curbside residents. This included implementing composting in the mayor's office and courthouse building as well as cafeteria composting in 11 Metro Nashville Public Schools.

## Grant Questionnaire (1 of 1)

**County-level or Municipality?**
County

**What grants would the county and municipalities like to see TDEC promote in the next two years?**
Organics Management/Composting
Waste Reduction
Measurement
Recycling Equipment
Education and Outreach

**What are the county and municipalities biggest needs for this next calendar year? Grant demonstration of need and priority will be determined through answering these questions.**
Expand Infrastructure
Facility Upgrades
New Infrastructure
New Equipment

**Explain Equipment Needs and Facility Upgrades**
Currently the Materials Recovery Facility in Nashville lacks the new technology to improve recovery rates and expand acceptable materials. This includes a glass crusher and glass cleaning system to incorporate glass into curbside recycling, optical sorters to improve paper and plastic recovery, ballistic separators, and no wrap equipment that reduces the impact of plastic bags in the sorting process.

In addition to traditional recycling, new infrastructure for construction and demolition recycling is needed to diversify options outside of landfilling. While a new state of the art facility was built in Davidson Co., the rate at which development is occurring requires diverse infrastructure and processing solutions.

For food waste, if we want to scale up our curbside food scraps collection efforts, the current facility will need to expand its facility to be able to take more material and its possible new facilities for composting, anaerobic digestion, or other food waste diversion methods will be needed to go full scale.

# TIRE REPORT

# Tire Report

version 1.8

**(Submission #: HQA-XJA7-1WESS, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-XJA7-1WESS |
| **County** | Davidson |
| **Status** | Draft |

## Form Input

### Tire

**County**
Davidson

**Report Year**
2024

> Enter the total number of tires managed per contractor. Or if it is only county-managed enter that total.

**Tire Data**

| Amount of Tires managed: (Tons) | Amount of Tires sent to beneficial use: (Tons) | Amount of Tires landfilled: (Tons) | Do you Currently have a contractor to haul tires? | Contractors Name |
|---|---|---|---|---|
| 5,943.38 | 5,943.38 | 0.00 | Yes | Liberty |
| Sum: 5,943.38 | Sum: 5,943.38 | Sum: 0.00 | | |

**Comments**
*NONE PROVIDED*

# INDUSTRIAL, COMMERCIAL, AND INSTITUTIONAL REPORTS

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R6BA-A56KK, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R6BA-A56KK |
| **ICI** | Metro-Nashville Water Services - Biosolids / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Metro-Nashville Water Services - Biosolids

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Andrew | Schutt |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6158624900 | |

**Email**
andrew.schutt@nashville.gov

**Address**
1600 2nd Ave N
Nashville, Tennessee 37208
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Bio-solids | 23512.59 | TONS | 23512.59 |
| | | | | Sum: 23512.59 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R3MR-H71Z8, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R3MR-H71Z8 |
| **ICI** | Country Music Hall of Fame® and Museum / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Country Music Hall of Fame® and Museum

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Alaina | Fouse |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6152918424 | |

**Email**
AFouse@countrymusichalloffame.org

**Address**

222 Rep. John Lewis Way S

Nashville, Tennessee 37203

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Single Stream | 58.79 | TONS | 58.79 |
| Davidson | Food Waste (Composted) | 44.52 | TONS | 44.52 |
| Davidson | Food Waste (Donated) | 6.46 | TONS | 6.46 |
| Davidson | MRF Glass (Tri-Color) Cullet | 8.48 | TONS | 8.48 |
| | | | | Sum: 118.25 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Aluminum Cans
Mixed Paper
Plastic Containers: Resins #1 and 2

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-318W-GRRAF, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQB-318W-GRRAF |
| **ICI** | The Compost Company, LLC / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
The Compost Company, LLC

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Curtis | Webb |

**Title**
Logistics Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 931.305.9434 | |

**Email**
curtis@compostcompany.com

**Address**

3643 Hwy 12 N

Ashland City, Tennessee 37015

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Food Waste (Composted) | 3464.38 | TONS | 3464.38 |
| | | | | Sum: 3464.38 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R2WJ-YAXKH, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R2WJ-YAXKH |
| **ICI** | Flom Paper / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Flom Paper

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Tara | Rill |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 3014985550 | |

**Email**
tara@flompaper.com

**Address**
14333 Laurel Bowie Rd # 308
Laurel, Maryland 20708
United States

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Mixed Paper PS-54 (MP) | 3497.65 | TONS | 3497.65 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 130.29 | TONS | 130.29 |
| | | | | Sum: 3627.94 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R19R-MFSFX, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R19R-MFSFX |
| **ICI** | Goodwill Industries of Middle Tennessee / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Goodwill Industries of Middle Tennessee

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Danny | Rhodes |

**Title**
Director of Donation Acquisitions

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6153461830 | |

**Email**
danny.rhodes@givegw.org

**Address**
937 Herman St
Nashville, Tennessee 37208
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 440.00 | TONS | 440.00 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 35.00 | TONS | 35.00 |
| Davidson | Mixed Paper PS-54 (MP) | 151.00 | TONS | 151.00 |
| Davidson | Textiles | 2236.00 | TONS | 2236.00 |
| Davidson | Electronics/E-scrap | 66.00 | TONS | 66.00 |
| | | | | Sum: 2928 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-7Q8M-DJ3H6, version 1)**

## Details

| | |
|---|---|
| **Submitted** | 3/24/2025 (0 days ago) by Clayton Hand |
| **Submission ID** | HQB-7Q8M-DJ3H6 |
| **ICI** | Independent Waste / Davidson |
| **Status** | Submitted |
| **Active Steps** | Form Review |

## Form Input

### Contact Information

**Company Name**
Independent Waste

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Jack | Louis |

**Title**
COO

| Phone Type | Number | Extension |
|---|---|---|
| Business | 205-974-0103 | |

**Email**
jack@independentwaste.net

**Address**
201 24th St N
Birmingham, Alabama 35203
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

### Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 38.00 | TONS | 38.00 |
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 16320.00 | TONS | 16320.00 |
| | | | | Sum: 16358.00 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**

*NONE PROVIDED*

**Comments**

Waste Hauler

C&D Waste:

1,265 tons of Concrete
15,055 tons of Mixed C&D

## Status History

| | User | Processing Status |
|---|---|---|
| 3/20/2025 9:19:00 AM | Clayton Hand | Draft |
| 3/24/2025 12:38:33 PM | Clayton Hand | Submitting |
| 3/24/2025 12:38:47 PM | Clayton Hand | Submitted |

## Processing Steps

| Step Name | Assigned To/Completed By | Date Completed |
|---|---|---|
| Form Submitted | Clayton Hand | 3/24/2025 12:38:47 PM |
| Form Review | | |

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R31R-MTVSR, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R31R-MTVSR |
| **ICI** | Greif Recycling / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Greif Recycling

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Emily | Turbeville |

**Title**
Office Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6157934580 | |

**Email**
Emily.Turbeville@greif.com

**Address**

139 Industrial Blvd

La Vergne, Tennessee 37086

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Sorted Office Paper PS-37 (SOP) | 39.92 | TONS | 39.92 |
| Davidson | Old Newsprint Paper PS-58 (ONP) | 50.27 | TONS | 50.27 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 1866.74 | TONS | 1866.74 |
| Davidson | Mixed Paper PS-54 (MP) | 47.90 | TONS | 47.90 |
| Davidson | Mixed Plastics All grades #1 - #7 | 0.64 | TONS | 0.64 |
| | | | | Sum: 2005.47 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R4K0-KN59G, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R4K0-KN59G |
| **ICI** | Interstate Batteries of Middle Tennessee / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Interstate Batteries of Middle Tennessee

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| John | Niemann |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6154503644 | |

**Email**
john@ibsmidtn.com

**Address**
3729 Hwy 109 N
Lebanon, Tennessee 37087
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Lead-Acid | 714.69 | TONS | 714.69 |
| | | | | Sum: 714.69 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R2S8-5RWB2, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R2S8-5RWB2 |
| **ICI** | Living Earth / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Living Earth

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Lora | Hinchcliff |

**Title**
Municipal Solutions Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 214.673.3341 | |

**Email**
lhinchcliff@letcogroup.com

**Address**
1901 California Crossings Rd
Dallas, Texas 75220
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Agricultural, Landscape, and Yard Trimmings | 6675.75 | TONS | 6675.75 |
| | | | | Sum: 6675.75 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
Brush/Wood Waste

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-647H-963YT, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQB-647H-963YT |
| **ICI** | Metro-Nashville Water Services FOG / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Metro-Nashville Water Services FOG

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Andy | Welch |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6158624590 | |

**Email**
joseph.welch@nashville.gov

**Address**
1360 County Hospital Road
Nashville, Tennessee 37218
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Fats, Cooking Oil, and Greases (FOG's) | 10550.00 | TONS | 10550.00 |
| | | | | Sum: 10550.00 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-5FFF-V343F, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQB-5FFF-V343F |
| **ICI** | MTEC (Waste Management) / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
MTEC (Waste Management)

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Melodie | Fedie |

**Title**
Supervisor, Scale House

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6157159282 | |

**Email**
mfedie2@wm.com

**Address**
4651 Amy Lynn Dr
Nashville, Tennessee 37218
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Ferrous Scrap | 2163.75 | TONS | 2163.75 |
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 7347.50 | TONS | 7347.50 |
| | | | | Sum: 9511.25 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
C&D Recycling:
6387.50 tons of Wood
960.00 tons of Concrete

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R6M7-MA07Q, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R6M7-MA07Q |
| **ICI** | Nashville Electric Service / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Nashville Electric Service

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Nathan | Black |

**Title**
Vegetation Management Supervisor

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6157473718 | |

**Email**
nblack@NESPOWER.COM

**Address**

1214 Church Street

Nashville, Tennessee 37246

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Agricultural, Landscape, and Yard Trimmings | 4856.00 | TONS | 4856.00 |
| | | | | Sum: 4856 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
Powerline Tree Trimmings

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-7QC9-YSFJ1, version 1)**

## Details

| | |
|---|---|
| **Submitted** | 3/24/2025 (0 days ago) by Clayton Hand |
| **Submission ID** | HQB-7QC9-YSFJ1 |
| **ICI** | New South Services of TN, INC / Davidson |
| **Status** | Submitted |
| **Active Steps** | Form Review |

## Form Input

### Contact Information

**Company Name**
New South Services of TN, INC

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Lindsey | Ford |

**Title**
Owner

| Phone Type | Number | Extension |
|---|---|---|
| Business | 615-425-6427 | |

**Email**
lindsey@newsouthservices.com

**Address**

625 Bakers Bridge Ave, Ste 105 Box 141

Franklin, Tennessee 37067

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

### Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | MRF Glass (Tri-Color) Cullet | 480.96 | TONS | 480.96 |
| | | | | Sum: 480.96 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**

*NONE PROVIDED*

**Comments**

Waste Hauler

## Status History

| | User | Processing Status |
|---|---|---|
| 3/20/2025 9:25:34 AM | Clayton Hand | Draft |
| 3/24/2025 12:41:40 PM | Clayton Hand | Submitting |
| 3/24/2025 12:41:47 PM | Clayton Hand | Submitted |

## Processing Steps

| Step Name | Assigned To/Completed By | Date Completed |
|---|---|---|
| Form Submitted | Clayton Hand | 3/24/2025 12:41:47 PM |
| Form Review | | |

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-VYQ3-3NCM5, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-VYQ3-3NCM5 |
| **ICI** | Recycle Services / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Recycle Services

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Branden | Stansley |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 419.262.9920 | |

**Email**
bstansley@recycleservices.net

**Address**
326 Swinging Bridge Road
Old Hickory, Tennessee 37138
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Clear (Flint) Glass Cullet | 17956.00 | TONS | 17956.00 |
| | | | | Sum: 17956 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
Window plate glass entered as Clear (Flint) Glass Cullet

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-B2JP-3RR4V, version 1)**

## Details

| | |
|---|---|
| **Submitted** | 3/24/2025 (0 days ago) by Clayton Hand |
| **Submission ID** | HQB-B2JP-3RR4V |
| **ICI** | Republic Services / Davidson |
| **Status** | Submitted |
| **Active Steps** | Form Review |

## Form Input

### Contact Information

**Company Name**
Republic Services

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Daniel | Leon |

**Title**
Area Manager Finance Mid-South

| Phone Type | Number | Extension |
|---|---|---|
| Business | 615-782-5595 | |

**Email**
dleon@republicservices.com

**Address**
621 Hill Ave.
Nashville, Tennessee 37210
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

### Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 47.04 | TONS | 47.04 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 5633.49 | TONS | 5633.49 |
| Davidson | Single Stream | 2022.74 | TONS | 2022.74 |
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 47.04 | TONS | 47.04 |
| | | | | Sum: 7750.31 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Cartons
Aluminum Cans
Mixed Paper
Plastic Containers: Resins #1 and 2
Tin Cans

**Comments**
C&D Recycling:

47.04 ton of Concrete

## Status History

| | User | Processing Status |
|---|---|---|
| 3/24/2025 3:44:29 PM | Clayton Hand | Draft |
| 3/24/2025 3:51:52 PM | Clayton Hand | Submitting |
| 3/24/2025 3:52:02 PM | Clayton Hand | Submitted |

## Processing Steps

| Step Name | Assigned To/Completed By | Date Completed |
|---|---|---|
| Form Submitted | Clayton Hand | 3/24/2025 3:52:02 PM |
| Form Review | | |

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-5BYQ-6VXQK, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQB-5BYQ-6VXQK |
| **ICI** | Rockwood Sustainable Solutions / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Rockwood Sustainable Solutions

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Lincoln | Young |

**Title**
President

| Phone Type | Number | Extension |
|---|---|---|
| Business | 615-417-2938 | |

**Email**
lincoln@rockwoodrecycling.com

**Address**
510 Hartmann Dr.
Lebanon, Tennessee 37087
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Ferrous Scrap | 358.00 | TONS | 358.00 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 580.00 | TONS | 580.00 |
| Davidson | Mixed Plastics All grades #1 - #7 | 447.00 | TONS | 447.00 |
| Davidson | Pallets | 2038.00 | TONS | 2038.00 |
| Davidson | Agricultural, Landscape, and Yard Trimmings | 1891.00 | TONS | 1891.00 |
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 5073.00 | TONS | 5073.00 |
| | | | | Sum: 10387.00 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-0P22-AKQYR, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQB-0P22-AKQYR |
| **ICI** | SA Recycling / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
SA Recycling

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Lusynda | Wright |

**Title**
*NONE PROVIDED*

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6155669048 | |

**Email**
lwright@sarecycling.com

**Address**
1840 Linder Industrial Dr
Nashville, Tennessee 37209
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Ferrous Scrap | 10903.20 | TONS | 10903.20 |
| Davidson | Non-Ferrous Scrap - Red Metal, Copper | 673.12 | TONS | 673.12 |
| Davidson | Non-Ferrous Scrap - Aluminum Beverage Containers | 117.60 | TONS | 117.60 |
| Davidson | Non-Ferrous - All Other Aluminum | 1528.80 | TONS | 1528.80 |
| Davidson | Non-Ferrous Scrap - Red Metal, Bronze and Brass | 89.60 | TONS | 89.60 |
| Davidson | Ferrous Scrap - White Goods/Appliances | 29659.84 | TONS | 29659.84 |
| | | | | Sum: 42972.16 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
Tin, appliances, cars, general scrap, basically everything shredded was entered as Ferrous Scrap - White Goods/Appliances

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R38X-ABYS6, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R38X-ABYS6 |
| **ICI** | Shapiro Metals / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Shapiro Metals

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Bobby | Hayes |

**Title**
Plant Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6152606786 | |

**Email**
bhayes@shapirometals.com

**Address**
199 Brandeau Drive
Dickson, Tennessee 37055
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Ferrous Scrap | 12990.52 | TONS | 12990.52 |
| Davidson | Non-Ferrous Scrap - Red Metal, Copper | 139.00 | TONS | 139.00 |
| Davidson | Non-Ferrous - All Other Aluminum | 412.00 | TONS | 412.00 |
| Davidson | Non-Ferrous Scrap - Red Metal, Bronze and Brass | 10.00 | TONS | 10.00 |
| Davidson | Non-Ferrous - Mixed Metals | 8.00 | TONS | 8.00 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 85.00 | TONS | 85.00 |
| Davidson | Mixed Plastics All grades #1 - #7 | 68.00 | TONS | 68.00 |
| Davidson | Lead-Acid | 2.00 | TONS | 2.00 |
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 52.00 | TONS | 52.00 |
| | | | | Sum: 13766.52 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-VBK8-W04RA, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-VBK8-W04RA |
| **ICI** | Sibelco Glass Recycling North America / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Sibelco Glass Recycling North America

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| David | Sharp |

**Title**
Plant Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 615-792-5097 | |

**Email**
david.sharp@sibelco.com

**Address**
1035 Thompson Rd
Ashland City, Tennessee 37015
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | MRF Glass (Tri-Color) Cullet | 368.60 | TONS | 368.60 |
| Davidson | Clear (Flint) Glass Cullet | 365.90 | TONS | 365.90 |
| | | | | Sum: 734.5 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
365.90 tons of Window Plate Glass entered as Clear (Flint) Glass Cullet.

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-TCEJ-3M3AT, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-TCEJ-3M3AT |
| **ICI** | Southeastern Recycling / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Southeastern Recycling

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Chad | Chaffin |

**Title**
Owner

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6152426464 | |

**Email**
serecycling@bellsouth.net

**Address**
15 Fairfield Ave
Nashville, Tennessee 37210
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

> For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Ferrous Scrap | 7.00 | TONS | 7.00 |
| Davidson | Non-Ferrous - All Other Aluminum | 4.00 | TONS | 4.00 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 48.00 | TONS | 48.00 |
| Davidson | Construction and Demolition -Carpet and Padding | 3246.00 | TONS | 3246.00 |
| | | | | Sum: 3305 |

> Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
1,392 ton of carpet
1,854 tons of carpet padding

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-7QMQ-M3C14, version 1)**

## Details

| | |
|---|---|
| **Submitted** | 3/24/2025 (0 days ago) by Clayton Hand |
| **Submission ID** | HQB-7QMQ-M3C14 |
| **ICI** | The Dumpster Company / Davidson |
| **Status** | Submitted |
| **Active Steps** | Form Review |

## Form Input

### Contact Information

**Company Name**
The Dumpster Company

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Brandon | Allen |

**Title**
General Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 615-925-3899 | |

**Email**
Brandon@Dumpster-Company.com

**Address**

1262 Lewis Street

Nashville, Tennessee 37210

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

### Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 1587.00 | TONS | 1587.00 |
| | | | | Sum: 1587.00 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**

*NONE PROVIDED*

**Comments**

Waste Hauler

## Status History

| | User | Processing Status |
|---|---|---|
| 3/20/2025 9:40:39 AM | Clayton Hand | Draft |
| 3/24/2025 12:43:41 PM | Clayton Hand | Submitting |
| 3/24/2025 12:43:47 PM | Clayton Hand | Submitted |

## Processing Steps

| Step Name | Assigned To/Completed By | Date Completed |
|---|---|---|
| Form Submitted | Clayton Hand | 3/24/2025 12:43:47 PM |
| Form Review | | |

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-XQ99-MZQ7G, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-XQ99-MZQ7G |
| **ICI** | Waste Connections of TN Hermitage / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Waste Connections of TN Hermitage

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Lana | Brown |

**Title**
MidSouth Region Environmental Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 901-500-1812 | |

**Email**
lanab@wasteconnections.com

**Address**
3516 Central Pike
Hermitage, Tennessee 37076
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 298.00 | TONS | 298.00 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 89.00 | TONS | 89.00 |
| Davidson | Mattresses | 3.22 | TONS | 3.22 |
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 155.00 | TONS | 155.00 |
| Davidson | Construction and Demolition - Repurposed or Reused Materials from Structures (Not recycled, Not landfilled ) | 223.00 | TONS | 223.00 |
| Davidson | Non-Predisposal Fee Scrap Tires Recycled | 0.83 | TONS | 0.83 |
| | | | | Sum: 769.05 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
155 tons of recycled C&D wood.

223 tons of Clean Fill

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-XR6F-KVGJN, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-XR6F-KVGJN |
| **ICI** | Waste Connections of TN Centennial Processing / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
Waste Connections of TN Centennial Processing

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Lana | Brown |

**Title**
MidSouth Region Environmental Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 901-500-1812 | |

**Email**
lanab@wasteconnections.com

**Address**
7133 Centennial Blvd
Nashville, Tennessee 37209
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 950.00 | TONS | 950.00 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 51.00 | TONS | 51.00 |
| Davidson | Mattresses | 4.37 | TONS | 4.37 |
| Davidson | Construction and Demolition - Repurposed or Reused Materials from Structures (Not recycled, Not landfilled ) | 2702.00 | TONS | 2702.00 |
| Davidson | Non-Predisposal Fee Scrap Tires Recycled | 3.92 | TONS | 3.92 |
| | | | | Sum: 3711.29 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

**Comments**
2702 tons of Clean Fill

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQB-7RDY-C5MZ9, version 1)**

## Details

| | |
|---|---|
| **Submitted** | 3/24/2025 (0 days ago) by Clayton Hand |
| **Submission ID** | HQB-7RDY-C5MZ9 |
| **ICI** | Nashville Wilbert Vault Co / Davidson |
| **Status** | Submitted |
| **Active Steps** | Form Review |

## Form Input

### Contact Information

**Company Name**
Nashville Wilbert Vault Co

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Amy | Thomasson |

**Title**
Office Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 615-242-0980 | |

**Email**
amyb@bickesinc.com

**Address**

432 Woodycrest Ave

Nashville, Tennessee 37210

USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

### Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Construction and Demolition - Recycled Materials from Structures (Not Class I or III/IV landfilled) | 20.00 | TONS | 20.00 |
| | | | | Sum: 20.00 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**

*NONE PROVIDED*

**Comments**

Waste Hauler

C&D Recycling:

20 tons of Concrete

## Status History

| | User | Processing Status |
|---|---|---|
| 3/20/2025 10:25:46 AM | Clayton Hand | Draft |
| 3/24/2025 12:48:20 PM | Clayton Hand | Submitting |
| 3/24/2025 12:48:32 PM | Clayton Hand | Submitted |

## Processing Steps

| Step Name | Assigned To/Completed By | Date Completed |
|---|---|---|
| Form Submitted | Clayton Hand | 3/24/2025 12:48:32 PM |
| Form Review | | |

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R5S5-V582Y, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R5S5-V582Y |
| **ICI** | WM High Grade MRF / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
WM High Grade MRF

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Paul | Farley |

**Title**
Site Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6157501675 | |

**Email**
pfarley@wm.com

**Address**
1740 River Hills Drive
Nashville, Tennessee 37210
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 24.21 | TONS | 24.21 |
| Davidson | Sorted Office Paper PS-37 (SOP) | 2451.20 | TONS | 2451.20 |
| Davidson | Mixed Paper PS-54 (MP) | 1630.61 | TONS | 1630.61 |
| Davidson | Old Newsprint Paper PS-58 (ONP) | 48.51 | TONS | 48.51 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 17623.82 | TONS | 17623.82 |
| Davidson | All Other Fiber Grades | 3752.65 | TONS | 3752.65 |
| Davidson | MRF Glass (Tri-Color) Cullet | 2415.53 | TONS | 2415.53 |
| Davidson | PET #1 | 23.98 | TONS | 23.98 |
| Davidson | HDPE #2 | 41.00 | TONS | 41.00 |
| Davidson | LDPE #4 | 135.51 | TONS | 135.51 |
| Davidson | Mixed Plastics All grades #1 - #7 | 558.07 | TONS | 558.07 |
| Davidson | Pallets | 956.68 | TONS | 956.68 |
| | | | | Sum: 29661.77 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R61E-279C8, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R61E-279C8 |
| **ICI** | WM Nashville North MRF / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
WM Nashville North MRF

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Paul | Farley |

**Title**
Site Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6157501675 | |

**Email**
pfarley@wm.com

**Address**
630 Myatt Drive
Madison, Tennessee 37115
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Non-Ferrous - Mixed Metals | 283.86 | TONS | 283.86 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 4721.22 | TONS | 4721.22 |
| Davidson | Single Stream | 1226.79 | TONS | 1226.79 |
| | | | | Sum: 6231.87 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Mixed Paper
Cartons
Plastic Containers: Resins #1 and 2
Tin Cans
Aluminum Cans

**Comments**
*NONE PROVIDED*

# Industrial, Commercial, Institutional (ICI) Report

version 1.15

**(Submission #: HQA-R5JF-1028T, version 1)**

## Details

| | |
|---|---|
| **Originally Started By** | Clayton Hand |
| **Submission ID** | HQA-R5JF-1028T |
| **ICI** | WM River Hills MRF / Davidson |
| **Status** | Draft |

## Form Input

### Contact Information

**Company Name**
WM River Hills MRF

**Report Year**
2024

**Contact**

| First Name | Last Name |
|---|---|
| Paul | Farley |

**Title**
Site Manager

| Phone Type | Number | Extension |
|---|---|---|
| Business | 6157501675 | |

**Email**
pfarley@wm.com

**Address**
208 River Hills Drive
Nashville, Tennessee 37210
USA

**Is an ICI being entered for a single county?**
Yes

**County**
Davidson

## Recycling Information

For each county, select the Recycled Material type and enter in the total amount recycled for that specific type. Each county should have one entry for each type of material recycled. For example: County A recycled a total amount of 300 tons of glass while County B recycled a total of 450 tons.

**Recycling Information by County**

| County | Recycled Material | Amount | Select Unit | Total TON |
|---|---|---|---|---|
| Davidson | Ferrous Scrap | 2.91 | TONS | 2.91 |
| Davidson | Non-Ferrous Scrap - Tin | 296.33 | TONS | 296.33 |
| Davidson | Non-Ferrous Scrap - Aluminum Beverage Containers | 367.86 | TONS | 367.86 |
| Davidson | Non-Ferrous - Mixed Metals | 120.23 | TONS | 120.23 |
| Davidson | Old Corrugated Containers PS-11 (OCC) | 13944.34 | TONS | 13944.34 |
| Davidson | Mixed Paper PS-54 (MP) | 8197.91 | TONS | 8197.91 |
| Davidson | PET #1 | 1236.36 | TONS | 1236.36 |
| Davidson | HDPE #2 | 310.43 | TONS | 310.43 |
| Davidson | Single Stream | 1541.84 | TONS | 1541.84 |
| | | | | Sum: 26018.21 |

Use the multi-select boxes below to indicate which items you collect in your single stream program.

**Single Stream Recycling**
OCC
Mixed Paper
Plastic Containers: Resins #1 and 2
Cartons
Aluminum Cans
Tin Cans

# LANDFILL AND RECYCLING REPORTS

# 2024 LANDFILL REPORT

## Municipal Solid Waste (Class I)

| Landfill | 2023 Tons | 2024 Tons |
|---|---|---|
| BFI Middle Point | 472,169.32 | 646,021.06 |
| Bi-County | 16,447.07 | 8,734.37 |
| Cedar Ridge | 245,695.84 | 90,932.32 |
| Madison County | 1.61 | - |
| Meadow Branch | 149.78 | 19.85 |
| Rhea County | 1750.94 | 1,429.2 |
| Smith County | 26.92 | - |
| West Camden | 223,280.75 | 365,726.47 |
| Bradley County | - | - |
| Chesnut Ridge | 130.46 | 11.90 |
| ECM of Ridgely | 22.89 | - |
| Out of State | 210,867.95 | 375,270.90 |
| **TOTAL** | **1,170,543.53** | **1,488,146.07** |

## C&D Landfill (Class III/IV)

| Landfill | 2023 Tons | 2024 Tons |
|---|---|---|
| Southern Services | 173,823.25 | 164,026.71 |
| Smith County | 47.44 | 16.63 |
| MS-COT | - | - |
| Bi-County | 93,076.50 | 43,917.75 |
| Rutherford County C&D | - | - |
| **TOTAL** | **266,947.19** | **207,961.09** |

# 2024 RECYCLING REPORT

## Private Recycling Programs*

| Program Material | 2023 Tons | 2024 Tons | Measurement |
|---|---|---|---|
| Automotive Fluids/Batteries/HHW | 732.62 | 716.69 | Tons |
| C&D Recycling | 7,203.5 | 31,939.54 | Tons |
| Cardboard | 43,873.39 | 44,807.90 | Tons |
| Carpet/Pad | 4,420 | 3,246 | Tons |
| Food Waste | 4,248,180 | 7,030,700 | Pounds |
| Glass | 4,554.27 | 21,114.51 | Tons |
| Grease | 2,613,246.75 | 2,740,294 | Gallons |
| Mattresses | 2,449.4 | 7.59 | Tons |
| Metal/White Goods | 51,135.64 | 63,519.87 | Tons |
| Mixed Recyclables | 3,424.39 | 4,850.16 | Tons |
| Paper | 20,368.85 | 19,867.62 | Tons |
| Plastic | 2,515.82 | 2,820.99 | Tons |
| Textiles | 2,071 | 2,236 | Tons |
| Wood/Pallets | 15,672.94 | 11,561.43 | Tons |
| Tires | 0 | 4.75 | Tons |
| E-Waste | 78,000 | 132,000 | Pounds |
| **TOTAL** | **170,672.42** | **202,859.40** | **TONS** |

**Data table includes information collected by staff and does not include tonnage information collected by the state from large retailers and other entities.*

# 2024 RECYCLING REPORT

## Public Recycling Programs

| Program Material | 2023 | 2024 | Measurement |
|---|---|---|---|
| Automotive Fluids/Batteries/HHW | 7.85 | 22.32 | Tons |
| Biosolids | 23,307.89 | 23,512.59 | Tons |
| Cardboard | 2,747.95 | 2,810.03 | Tons |
| E-Waste | 132,380 | 445,260 | Pounds |
| Food Waste | 379,060 | 665,280 | Pounds |
| Glass | 2,082.89 | 1,694.53 | Tons |
| Grease | 309.93 | 204.18 | Gallons |
| Metals | 1,004.64 | 953.95 | Tons |
| Mixed Plastic/Metal | 838.42 | 753.03 | Tons |
| Mixed Recyclables (Single-Stream) | 13,301.61 | 13,378.17 | Tons |
| Paper | 1,026.10 | 819.32 | Tons |
| Tires | 6,549.74 | 5,943.38 | Tons |
| Wood | 42,948.91 | 28,189.94 | Tons |
| Mattresses | 358.11 | 358.46 | Tons |
| **TOTAL** | **94,413.08** | **78,997.42** | **TONS** |

# ATTACHMENTS

FY24 Budget Actuals
FY24 Monthly Revenue
NDOT Debris Management Plan

| | | |
|---|---|---|
| 065 Water and Sewer<br>30501 Solid Waste Operations | 065 Water and Sewer<br>30501 Solid Waste Operations | |
| 65801300 WS WM Education/Pub Relations | All Other | 56,796.46 |
| 65801300 WS WM Education/Pub Relations | Fringe Benefits | 59,488.40 |
| 65801300 WS WM Education/Pub Relations | Revenue | (205,790.00) |
| 65801300 WS WM Education/Pub Relations | Salary | 216,568.63 |
| **65801300 WS WM Education/Pub Relations Total** | **65801300 WS WM Education/Pub Relations Total** | **127,063.49** |
| 65803100 WS WM Metro Collection | All Other | 29,709,307.79 |
| 65803100 WS WM Metro Collection | Fringe Benefits | 215,301.24 |
| 65803100 WS WM Metro Collection | Revenue | (6,763,758.14) |
| 65803100 WS WM Metro Collection | Salary | 502,790.59 |
| **65803100 WS WM Metro Collection Total** | **65803100 WS WM Metro Collection Total** | **23,663,641.48** |
| 65803300 WS WM Downtown Business Coll | All Other | 443,388.18 |
| 65803300 WS WM Downtown Business Coll | Fringe Benefits | 177,093.10 |
| 65803300 WS WM Downtown Business Coll | Salary | 567,400.08 |
| **65803300 WS WM Downtown Business Coll Total** | **65803300 WS WM Downtown Business Coll Total** | **1,187,881.36** |
| 65803500 WS WM Front Loader Coll | All Other | 2,113,077.85 |
| 65803500 WS WM Front Loader Coll | Fringe Benefits | 77,570.65 |
| 65803500 WS WM Front Loader Coll | Revenue | (437,173.22) |
| 65803500 WS WM Front Loader Coll | Salary | 213,754.60 |
| **65803500 WS WM Front Loader Coll Total** | **65803500 WS WM Front Loader Coll Total** | **1,967,229.88** |
| 65803600 WS WM Dead Animal Coll | All Other | 530.34 |
| **65803600 WS WM Dead Animal Coll Total** | **65803600 WS WM Dead Animal Coll Total** | **530.34** |
| 65804200 WS  WM Downtown Bus Recycling | All Other | 585.09 |
| 65804200 WS  WM Downtown Bus Recycling | Fringe Benefits | 28,773.14 |
| 65804200 WS  WM Downtown Bus Recycling | Revenue | (120.00) |
| 65804200 WS  WM Downtown Bus Recycling | Salary | 52,275.63 |
| **65804200 WS  WM Downtown Bus Recycling Total** | **65804200 WS  WM Downtown Bus Recycling Total** | **81,513.86** |
| 65804300 WS  WM Curbside Recycling | All Other | 1,334,064.48 |
| 65804300 WS  WM Curbside Recycling | Fringe Benefits | 750,045.18 |
| 65804300 WS  WM Curbside Recycling | Salary | 1,957,121.48 |
| **65804300 WS  WM Curbside Recycling Total** | **65804300 WS  WM Curbside Recycling Total** | **4,041,231.14** |
| 65804511 WS  WM Drop Off Recycle Centers | All Other | 217,080.91 |
| 65804511 WS  WM Drop Off Recycle Centers | Fringe Benefits | 88,681.16 |
| 65804511 WS  WM Drop Off Recycle Centers | Revenue | 0.00 |
| 65804511 WS  WM Drop Off Recycle Centers | Salary | 266,388.83 |
| **65804511 WS  WM Drop Off Recycle Centers Total** | **65804511 WS  WM Drop Off Recycle Centers Total** | **572,150.90** |
| 65804520 WS WM Convenience/Recycle Ctrs | All Other | 1,270,498.32 |
| 65804520 WS WM Convenience/Recycle Ctrs | Fringe Benefits | 301,508.14 |
| 65804520 WS WM Convenience/Recycle Ctrs | Revenue | (1,170,300.80) |
| 65804520 WS WM Convenience/Recycle Ctrs | Salary | 860,542.16 |
| **65804520 WS WM Convenience/Recycle Ctrs Total** | **65804520 WS WM Convenience/Recycle Ctrs Total** | **1,262,247.82** |
| 65804800 WS WM Household Hazardous Waste | All Other | 56,141.60 |
| 65804800 WS WM Household Hazardous Waste | Fringe Benefits | 32,494.32 |
| 65804800 WS WM Household Hazardous Waste | Salary | 94,568.26 |
| **65804800 WS WM Household Hazardous Waste Total** | **65804800 WS WM Household Hazardous Waste Total** | **183,204.18** |
| 65804900 WS WM Tire Program | All Other | 1,708.24 |
| 65804900 WS WM Tire Program | Fringe Benefits | 0.00 |
| 65804900 WS WM Tire Program | Salary | 0.00 |
| 65804900 WS WM Tire Program | Revenue | (178,425.76) |

| | | |
|---|---|---|
| **65804900 WS WM Tire Program Total** | **65804900 WS WM Tire Program Total** | **(176,717.52)** |
| 65805200 WS WM Landfill Engineering | All Other | 390,254.55 |
| 65805200 WS WM Landfill Engineering | Fringe Benefits | 35,041.81 |
| 65805200 WS WM Landfill Engineering | Salary | 122,990.69 |
| **65805200 WS WM Landfill Engineering Total** | **65805200 WS WM Landfill Engineering Total** | **548,287.05** |
| 65861110 WS WM Administration 30501 | All Other | 5,798,146.08 |
| 65861110 WS WM Administration 30501 | Fringe Benefits | 359,174.08 |
| 65861110 WS WM Administration 30501 | Revenue | (41,375,935.33) |
| 65861110 WS WM Administration 30501 | Salary | 1,173,396.49 |
| **65861110 WS WM Administration 30501 Total** | **65861110 WS WM Administration 30501 Total** | **(34,045,218.68)** |
| **30501 Solid Waste Operations Total** | **30501 Solid Waste Operations Total** | **(586,954.70)** |
| 30502 Solid Waste Grant | 30502 Solid Waste Grant | 0.00 |
| 65301100 WS TN Direct Appr Debris Clean Up | All Other | 58,317.00 |
| **65301100 WS TN Direct Appr Debris Clean Up Total** | **65301100 WS TN Direct Appr Debris Clean Up Total** | **58,317.00** |
| 65301200 WS TN Direct Appr Riparian Clean Up | All Other | 0.00 |
| **65301200 WS TN Direct Appr Riparian Clean Up Total** | **65301200 WS TN Direct Appr Riparian Clean Up Total** | **0.00** |
| 65301300 WS TN Direct Appr Emerald Ash Borer | All Other | 33,315.07 |
| **65301300 WS TN Direct Appr Emerald Ash Borer Total** | **65301300 WS TN Direct Appr Emerald Ash Borer Total** | **33,315.07** |
| 65301400 WS TN Direct Appr Waste Ops Assessment | All Other | 0.00 |
| **65301400 WS TN Direct Appr Waste Ops Assessment Total** | **65301400 WS TN Direct Appr Waste Ops Assessment Total** | **0.00** |
| 65301500 WS TN Direct Appr Heavy Equip | All Other | 0.00 |
| **65301500 WS TN Direct Appr Heavy Equip Total** | **65301500 WS TN Direct Appr Heavy Equip Total** | **0.00** |
| 65301700 WS Residential Food Waster Pilot | All Other | 180,225.00 |
| 65301700 WS Residential Food Waster Pilot | Revenue | (250,000.00) |
| **65301700 WS Residential Food Waster Pilot Total** | **65301700 WS Residential Food Waster Pilot Total** | **(69,775.00)** |
| 65302100 W&S Solid Waste Rebate Grant | Revenue | (151,615.00) |
| **65302100 W&S Solid Waste Rebate Grant Total** | **65302100 W&S Solid Waste Rebate Grant Total** | **(151,615.00)** |
| 65302200 W&S Recycling Partnership Grant | All Other | (70,580.81) |
| **65302200 W&S Recycling Partnership Grant Total** | **65302200 W&S Recycling Partnership Grant Total** | **(70,580.81)** |
| **30502 Solid Waste Grant Total** | **30502 Solid Waste Grant Total** | **(200,338.74)** |
| 30503 Tire Waste | 30503 Tire Waste | 0.00 |
| 65701301 W&S Solid Waste Tires | All Other | 871,337.01 |
| 65701301 W&S Solid Waste Tires | Revenue | (574,706.61) |
| **65701301 W&S Solid Waste Tires Total** | **65701301 W&S Solid Waste Tires Total** | **296,630.40** |
| **30503 Tire Waste Total** | **30503 Tire Waste Total** | **296,630.40** |

**Waste Service**
**Monthly Revenue by Object**
**FY 2024**

**1/22/2024**

| Account Description | Annual Budget | July | August | September | October | November | December | January | February | March | April | May | June | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 405471 Interest-MIP | - | 48,099.40 | 24,096.76 | 56,933.21 | 32,680.27 | 37,697.53 | 47,009.59 | 25,921.12 | 74,099.43 | 37,234.05 | 34,793.72 | 31,830.75 | 26,655.22 | 477,051.05 |
| 405472 Unrealized Gain/Loss MIP | - | 6,491.09 | 15,451.10 | 7,989.08 | 13,085.32 | 21,153.47 | 31,814.26 | 16,747.90 | (12,268.88) | 19,106.57 | 3,214.94 | 32,345.07 | 28,901.96 | 184,031.88 |
| 405473 Realized Gain/Loss MIP | - | (10,252.31) | (4,489.79) | (27,193.98) | (2,480.95) | (3,818.13) | (6,729.58) | 156.60 | (10,497.39) | - | (4,483.07) | - | - | (69,788.60) |
| 407606.RECYCLE Garbage & Junk | 8,000.00 | - | - | | - | - | - | - | - | - | - | - | - | - |
| 407606.JUNK Garbage & Junk | 130,000.00 | 10,414.30 | 9,343.10 | 9,651.30 | 11,168.70 | 11,961.30 | 9,375.60 | 7,586.80 | 7,387.90 | 9,263.80 | 6,620.90 | 12,201.80 | 7,416.50 | 112,392.00 |
| 407606.RECYCLE Garbage & Junk | 6,000.00 | 30.00 | - | 45.00 | - | 30.00 | - | - | - | - | - | 15.00 | - | 120.00 |
| 407655 Re-sale Inventory | 125,000.00 | 13,780.00 | 14,425.00 | 9,930.00 | 10,210.00 | 10,335.00 | 7,250.00 | 10,715.00 | 9,295.00 | 9,815.00 | 11,350.00 | 13,020.00 | 11,220.00 | 131,345.00 |
| 407707 Plans Examination | 80,000.00 | 12,190.00 | 17,820.00 | 10,810.00 | 12,795.00 | 12,705.00 | 13,070.00 | 11,475.00 | 17,140.00 | 13,465.00 | 11,625.00 | 20,575.00 | 10,460.00 | 164,130.00 |
| 407755.ANDERSON Dumping | 250,000.00 | 23,832.00 | 27,898.00 | 25,208.00 | 21,796.00 | 26,592.00 | 21,720.00 | 15,582.00 | 17,732.00 | 13,864.00 | 15,962.00 | 17,098.00 | 14,645.00 | 241,929.00 |
| 407755.EAST Dumping | 360,000.00 | 25,464.00 | 28,836.00 | 27,702.00 | 28,483.00 | 42,318.00 | 26,244.00 | 21,433.00 | 20,445.00 | 17,773.00 | 26,293.00 | 22,370.00 | 23,813.00 | 311,174.00 |
| 407755.EZELL Dumping | 150,000.00 | 15,257.00 | 17,881.00 | 13,439.00 | 10,798.00 | 16,235.00 | 11,167.00 | 10,195.00 | 16,140.00 | 16,014.01 | 20,636.99 | 23,172.00 | 17,637.00 | 188,572.00 |
| 407755.LANDFILL Dumping | 1,400,000.00 | 68,236.78 | 7,921.75 | 81,701.42 | 85,770.84 | 3,809.96 | 3,953.07 | 127,868.55 | 3,469.02 | 71,669.22 | 43,731.16 | 127,470.94 | - | 625,602.71 |
| 407755.OMO Dumping | 150,000.00 | 22,553.00 | 25,763.00 | 24,697.00 | 20,182.00 | 17,951.00 | 16,282.00 | 22,872.80 | 32,533.00 | 31,510.00 | 33,990.00 | 34,960.00 | 37,556.00 | 320,849.80 |
| 407755.WASTE Dumping | 400,000.00 | - | - | 79,486.04 | 39,743.02 | 39,743.02 | 39,743.02 | 39,743.02 | 39,743.02 | 39,743.02 | 39,743.02 | 39,743.02 | 39,743.02 | 437,173.22 |
| 407755.WASTE Dumping | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 407756 Back Door Garbage | 50,000.00 | 595.00 | 770.00 | 1,155.00 | 350.00 | 4,446.00 | 23,520.00 | 6,755.00 | 210.00 | (210.00) | - | 17,710.00 | 7,560.00 | 62,861.00 |
| 407757 Refuse Hndlr Inspection | 210,000.00 | 11,520.00 | 2,989.00 | 44,440.00 | 31,934.00 | 84,922.00 | 3,348.00 | 24.00 | 168.00 | 3,465.20 | 50.00 | - | 22,056.00 | 204,916.20 |
| 407758 Disposal Fee | 3,500,000.00 | 363,877.75 | 647,357.33 | 512,491.13 | 545,554.10 | 266,441.79 | 181,965.23 | 607,975.55 | 169,821.89 | 584,473.25 | 534,561.53 | 417,284.27 | 113,333.94 | 4,945,137.76 |
| 407776 Disposal Srvc-Excess Carts | 500.00 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 409518 Other | 40,000.00 | 4,166.00 | 4,166.00 | 4,166.00 | - | 4,166.00 | 4,166.00 | 4,166.00 | 4,166.00 | - | 8,332.00 | 4,166.00 | - | 41,660.00 |
| 431120 Transfer Solid Waste | 40,789,600.00 | - | 10,197,400.00 | - | 10,197,400.00 | - | - | 10,197,400.00 | - | - | 10,197,400.00 | - | (67,400.00) | 40,722,200.00 |
| | **47,649,100.00** | **616,254.01** | **11,037,628.25** | **882,650.20** | **11,059,469.30** | **596,688.94** | **433,898.19** | **11,126,617.34** | **389,583.99** | **867,186.12** | **10,983,821.19** | **813,961.85** | **293,597.64** | **49,101,357.02** |
| | | 616,254.01 | 11,653,882.26 | 12,536,532.46 | 23,596,001.76 | 24,192,690.70 | 24,626,588.89 | 35,753,206.23 | 36,142,790.22 | 37,009,976.34 | 47,993,797.53 | 48,807,759.38 | 49,101,357.02 | |
| | 3,970,758.33 | 3,970,758.33 | 7,941,516.67 | 11,912,275.00 | 15,883,033.33 | 19,853,791.67 | 23,824,550.00 | 27,795,308.33 | 31,766,066.67 | 35,736,825.00 | 39,707,583.33 | 43,678,341.67 | 47,649,100.00 | |
| | | | | | | | 3,970,758.33 | 293,597.64 | | | | | | |
| | | | | | | | 47,649,100.00 | 49,101,357.02 | | | | | | |

## Metro Nashville and Davidson County

# Debris Management Plan

Prepared By

NASHVILLE DEPARTMENT of TRANSPORTATION
& MULTIMODAL INFRASTRUCTURE

Revised - October 2021

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## Debris Management Plan

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# *METRO NASHVILLE DEBRIS MANAGEMENT PLAN*

## *I. Authority*

This plan has been adopted by the Metropolitan Government of Nashville and Davidson County and is developed, promulgated, and maintained under the following Local, State and Federal statutes and regulations:

- Tennessee Code Ann. §§ 58-2-103, 58-2-104, 58-2-106, 58-2-113, 58-2-114, 58-2-118
- Tennessee Governor's Executive Order(23) June, 2005
- TDEC DSWM policy 1200-1-7-.02(1)(b)3(v) and (vi)
- Public Law 93-288 as amended by Public Law 100-107, the Stafford Disaster Relief and Emergency Assistance Act and in this plan as "The Stafford Act."
- Public Law 81-920, Federal Civil Defense Act of 1950, as amended.
- CFR, Title 44, Part 200 et seq.
- Mayor's Executive Order 92-03, OEM Comprehensive Emergency Management Plan - 2012

## *II. Overview*

### A. Background

The institutions of the Metropolitan Government of Nashville, along with the natural and built environment, present opportunities for a number of potential natural and technological disasters or emergencies. The Mayor's Office of Emergency Management (OEM) is responsible for planning and emergency preparedness, response and recovery, and mitigation activities and coordinates with the Tennessee Emergency Management Agency (TEMA) and the Federal Emergency Management Agency (FEMA) in response to disasters, emergencies, severe weather conditions, and other catastrophic events.

The Metropolitan Government of Nashville subscribes to the guidance developed by FEMA, TEMA, OEM, and the Comprehensive Emergency Management Plan (CEMP) developed by OEM. The CEMP establishes responsibilities for each Metro Nashville Government Agency and sets forth lines of authority and organizational relationships that are essential for the protection of the public. The CEMP also establishes the concepts and policies under which all elements of the Metro Nashville Government will operate during disasters and emergencies by providing for the integration of those resources.

This plan is based on guidance provided by FEMA and procedures outlined in the FEMA Debris Management Guide. This plan focuses on the types of activities that are likely to be required during a disruption or emergency, without regard to the type or cause of that disruption or emergency.

## B. Purpose

This plan has been developed and adopted to provide the framework for Metro Nashville Government and other entities to clear and remove debris generated during a public emergency within the limits of Metro Nashville and Davidson County. This plan unifies the efforts of public and private organizations for a comprehensive and effective approach to:

- Provide organizational structure, guidance, and standardized guidelines for the clearance, removal, and disposal of debris caused by a major debris generating event.
- Establish the most efficient and cost effective methods to resolve disaster debris removal and disposal issues.
- Implement and coordinate private sector debris removal and disposal contracts to maximize cleanup efficiencies.
- Expedite debris removal and disposal efforts that provide visible signs of recovery designed to mitigate the threat to the health, safety, and welfare of residents.
- Coordinate partnering relationships through communications and pre-planning with local, State, and Federal agencies that have debris management responsibilities.

## C. General Approach

Metro Nashville and Davidson County is vulnerable to numerous natural and technological hazards, including severe weather and hazardous materials spills. Tornadoes, severe storms, lightning, wind storms, hail, and floods pose the highest natural threats to the city. Critical government and private facilities are potential targets for terrorist attack. Metro Nashville can manage many disaster situations with internal resources. However, there are potential debris generating events that may overwhelm the city's assets and capabilities.

This plan establishes the framework within which the city will respond and coordinate the removal and disposal of debris generated by potential manmade and natural disasters. This plan will also address the potential role that State and Federal agencies and other groups will take in a debris operation.

This plan defines the roles and responsibilities of Local Emergency Managers with respect to debris planning prior to an event and actions following a major debris-generating event.

## D. Event Planning Basis and Assumptions

Natural disasters such as tornadoes, and flooding precipitate a variety of debris that includes, but is not limited to, trees and other vegetative organic matter, construction materials, appliances, personal property, mud, and sediment. Man-made disasters such as terrorist attacks may result in a large number of casualties and heavy damage to buildings and basic infrastructure. Crime scene constraints may hinder normal debris operations, and contaminated debris may require special handling. These factors will necessitate close coordination with Law enforcement, Health, and Environmental officials at all levels of Government.

This plan takes an all-hazards approach to identifying and responding to the following hazards that may pose a threat to the city:

- Natural Hazards – severe weather, tornadoes, flooding, hail, or earthquakes.
- Human-caused Events and Hazards – urban fires, special events, civil disorder, or transportation accidents.
- Terrorist Incidents – bomb threats or attacks, sabotage, hijacking, armed insurrection, or Weapons of Mass Destruction (WMD) incidents.

The quantity and type of debris generated, its location, and the size of the area over which it is dispersed will have a direct impact on the type of removal and disposal methods utilized, the associated costs, and the speed with which the problem can be addressed. Further, the quantity and type of debris generated from any particular disaster will be a function of the location and kind of event experienced, as well as its magnitude, duration, and intensity.

**For planning purposes and for pre-positioning response assets, this plan assumes that the magnitude of the event exceeds the capacities of the Metropolitan Government of Nashville and Davidson County.**

The fact that this plan is based on an event that exceeds the city's capacity in no way diminishes the value of the plan for use in response to other types and categories of events. This plan establishes a general framework that can, with minor modifications, be used in any debris generating event.

This plan addresses the clearing, removal, and disposal of debris generated by the above hazards based on the following assumptions:

- A major natural or man-made disaster that requires the removal of debris from public or private lands and waters could occur at any time.
- The amount of debris resulting from a major natural disaster will exceed the city's in-house removal and disposal capabilities.
- Metropolitan Government of Nashville will contract for additional resources to assist in the debris removal, reduction, and disposal processes.
- Federal assistance will be requested to supplement the city's debris capabilities in coordination with the Debris Manager.

## E. Federal Assistance

The Debris Manager will request assistance when the debris-generating event exceeds the city's debris clearing, removal, and disposal capabilities. The request will be submitted to the OEM Emergency Operations Center (EOC) who will then submit the request to the Tennessee Emergency Management Agency (TEMA), which will coordinate the request for assistance with the Federal Emergency Management Agency (FEMA).

## *III. Debris Management Organization and Staff Responsibilities*

### A. Debris Response and Recovery Primary and Support Agencies

One of the primary functions of this plan is to clearly delineate a basic organization and assign specific responsibilities. During the conduct of debris operations, many issues will arise that are not specifically mentioned in this plan. However, responsibilities are sufficiently defined so that unexpected issues can be assigned and resolved efficiently.

Specific responsibilities of the various primary and supporting agencies are shown in the sections that follow:

#### 1. NDOT

The Nashville Department of Transportation responsibilities include, but are not limited to, the following with respect to any and all debris management issues:

- Designate a Debris Manager to oversee debris clearance and removal operations in Metro Nashville.
- Provide a DMC Liaison Officer to the OEM Emergency Operations Center to coordinate debris requests and actions as required.
- Provide a Debris Coordinator to the DMC staff to coordinate all agency debris assignments.
- Provide a Public Information Officer (PIO) to coordinate all media reports on debris operations.
- Provide personnel and equipment to assist in clearing major evacuation routes and access to critical facilities.
- Provide personnel and equipment to operate and staff the Debris Contractor Oversight Team (DCOT) element of the DMC, including communications equipment, transportation, etc.
- Provide personnel and equipment to remove and dispose of debris through the NDOT Debris Coordinator.
- Ensure that the DMC is provided all needed administrative staff and equipment support, including administrative support personnel, computers, desks, chairs, etc.
- Provide Finance personnel to perform and manage contract, equipment, and force labor cost accounting.

## 2. Tennessee Department of Transportation

The Tennessee Department of Transportation's responsibilities include, but are not limited to, the following with respect to any and all debris management activities:

- Provide a TDOT Debris Coordinator to the DMC staff to coordinate all TDOT personnel and equipment debris assignments relating to clearing of interstates and highways.
- Provide personnel and equipment to initiate the clearing of emergency evacuation routes and access to critical facilities throughout Metro Nashville (Phase I) as directed by the Debris Manager in coordination with the TDOT Debris Coordinator located at the DMC.
- Ensure that the TDOT representative at the DMC is provided all needed logistics support, including cell phone, transportation, etc.
- Ensure that the TDOT Debris Coordinator keeps the Debris Manager informed of clearing progress and any problems encountered or expected.

Primary Point of Contact: *Brad Freeze, Director- Incident Mgmt., (615)253-1122*

## 3. Metro Parks and Recreation

The Parks and Recreation Department responsibilities include, but are not limited to, the following with respect to any and all debris management activities:

- Provide a Parks Debris Coordinator to the DMC staff to coordinate all Parks debris assignments.
- Provide personnel and equipment to assist NDOT when requested, in clearing major evacuation routes and access to critical facilities (Phase I).
- Provide personnel and equipment to assist in the removal and disposal of debris (Phase II) as directed by the Debris Manager through the Parks Debris Coordinator.
- Provide specialized equipment and trained operators to assist in the clearing and removal of woody vegetation from along critical rights-of-way.
- Ensure that debris removal from Parks facilities is coordinated through and approved by the Debris Manager through the Parks Debris Coordinator.
- Ensure that the Parks Debris Coordinator is provided all needed logistical support, including cell phones, transportation, etc.
- Ensure that the Parks Debris Coordinator keeps the Debris Manager informed of cleanup progress and any problems encountered or expected.
- Assist in debris management site investigations.

- Provide digital map files of all identified Parks property greater than 10 acres.
- Coordinating with the Debris Manager for the removal, storage, burning, and disposal of debris at debris collection/management sites at Parks facilities.

Primary Point of Contact: *Monique Odom, Director, (615)862-8400*

**4. Fire and Emergency Medical Services**

- Respond to fire and other emergencies at debris management sites.
- Respond to request to investigate and handle hazardous materials incidents.
- Approve debris management burn sites in accordance with appropriate local requirements to ensure safe burning.
- Issue bans on open burning based upon assessment of local conditions and ensure dissemination of information to the public.
- Supervise burn sites in accordance with all appropriate local requirements to ensure safe burning, subject to amendments by the Health Department and/or Fire Marshall.

Primary Point of Contact: *Will Swann, Director Chief, (615)862-5421*

**5. Police / Sheriff's Department**

- Assist in monitoring illegal dumping activities.
- Assist in monitoring debris management sites to ensure compliance with local traffic regulations.
- Assist in the coordination of traffic control at all loading sites and at entrances to and from debris management sites.
- Assist in debris removal using inmate crews if requested.

Primary Point of Contact: *John Drake, Chief (615)862-7400*
Primary Point of Contact: *Daron Hall, Sheriff (615)862-8170*

### 6. Department of Health

- Assist in monitoring debris management site operations and closeout activities.
- Coordinate and assist as necessary on all environmental, safety, and health issues and provide Health and Safety Officers for oversight.
- Regulate the burning at debris management sites and assist in air quality monitoring.

Primary Point of Contact: *Gill Wright, Director, (615)340-5616*

### 7. Metro Water Services

- Coordinate debris removal and disposal requirement at Metro Water Services facilities with the Debris Manager.
- Assist NDOT with debris removal when requested.
- Assist in water quality issues stemming from debris contamination in streams and rivers, and coordinate with TDEC, USEPA, USACE, and U.S. Coast Guard.

Primary Point of Contact: *Scott Potter, Director, (615)862-4505*

### 8. Nashville Electric Service

Coordinate with the Debris Manager with regards to debris removal along electrical easements and rights-of-way to ensure that all lines are de-energized.

- Provide a Debris Coordinator to the DMC.
- Provide personnel and equipment to assist in utility debris removal.

Primary Point of Contact: *Decosta Jenkins, President, (615)736-6900*

## B. Debris Response and Recovery Organization and Responsibilities

This section of the plan provides a listing of primary debris-related responsibilities for directors and managers, as well as debris-specific assignments for tasks and issues that normally arise during debris operations.

### 1. Debris Manager

The Director of NDOT will appoint a Debris Manager. This individual's responsibilities include, but are not limited to, the following with respect to any and all debris management issues:

- Overall control of the DMC.
- Receive regular updates from the Debris Coordinator regarding cleanup progress and any problems encountered or expected.

**Metro Nashville and Davidson County - Debris Management Plan**

- Identify agency staff members for debris management monitoring duties (Roving, Load Site, and Disposal Site Monitors).

- Provide yearly training and refresher training for all personnel assigned to debris management monitoring responsibilities.

- Coordinate training requirements with OEM and the Operations Division of NDOT.

- Communicate timely information to the OEM Director and the EOC staff regarding the status of the debris clearing, removal, and disposal operations.

- Assure that the Metro Nashville Government is represented at all meetings with other government and private agencies involved with the debris cleanup operation.

- Coordinate with appropriate County, State, and Federal agencies, including FEMA, TEMA, and others as appropriate.

- The Debris Manager will activate the DMC and fully implement the debris plan upon notification by the OEM Director. This will likely occur during Level III and Level IV emergencies.

- Appoint a Deputy Debris Manager responsible for daily operation control of the DMC.

- Implement the following notification system to rapidly notify appropriate staff as to where and when to report for duty. This system must be kept up-to-date to ensure key staff can readily be reached. The notification system should be maintained in such a manner that notification can be made at any time.

  **Level I** – Involves an event likely to be within the capabilities of local government and results in only limited (does not require involvement beyond the duty officer and several assistants) need for State assistance. Typical daily activities continue while the event is monitored. Notification is limited to those agencies that have normal day-to-day emergency responsibilities or regulatory requirements. If the event occurs during non-duty hours, the duty officer may be required to report to the EOC to monitor the situation and respond to requests for State assistance.

  **Level II** – Involves any event that has the potential to develop into an emergency or disaster and will likely require the assistance of at least two or three Metro Nashville Agencies. A limited staff will be in place in the EOC staffed with OEM personnel and those agencies essential to the response. Twenty-four hour staffing may be required. Daily activities are altered to accommodate the situation. All applicable State Agencies are alerted.

**Level III** – Involves an event which has become, or is becoming, an emergency or disaster and requires significant City and State response, and possible Federal response and recovery assistance (local government capabilities clearly exceeded). The direction and control, primary resources, mass care, and environmental and natural resources groups are at least partially staffed on a 24-hour basis in the EOC.

Support agencies are alerted and most OEM personnel are assigned to emergency/disaster functions. The Governor will declare a State of Emergency. The Comprehensive Emergency Management Plan is implemented. FEMA Emergency Response Team A (ERT-A) and State Liaison may be requested.

**Level IV -** Involves a declared disaster, which requires an extensive City and State response where the State and local governments are clearly overwhelmed. The Metro Nashville EOC is fully staffed for 24-hour operations by all of the primary Metro Nashville Agencies. The State requests implementation of the Federal Response Plan and the presence of the FEMA Region III State Liaison and the ERT-A, if not previously requested.

## 2. Deputy Debris Manager

The Debris Manager will be supported by a joint debris staff made up of personnel from NDOT and other Metro Nashville Departmental staff personnel. The joint staff will constitute the daily operating element of the DMC.

- The Deputy Debris Manager is responsible for daily operational control of the DMC staff. The Deputy Debris Manager will receive current information on the severity of the disaster from the DMC Liaison Officer located at the Metro Nashville EOC. All requests for debris removal or disposal from the emergency response staff will go through the DMC Liaison Officer to the Deputy Debris Manager. Requests for debris removal from public facilities and roadways will be reviewed and approved by the Debris Manager before being directed to the appropriate DMC Debris Coordinators (NDOT and/or Parks and Recreation Department) to implement the request.

- The Deputy Debris Manager will appraise the extent of damage and resulting debris and issue directives to the appropriate Debris Coordinators who in turn will notify their departments to execute the tasking as defined by their department's Standard Operating Guidelines.

- The Deputy Debris Manager will ensure that all Contractor debris removal and disposal operations are properly monitored utilizing personnel assigned to the Debris Contractor Oversight Team.

- The Deputy Debris Manager will keep the Debris Manager and DMC staff informed on all ongoing debris management operations through, at a minimum, daily meetings and/or reports.

- The Deputy Debris Manager will maintain a daily journal and file on all debris related documents and issues.

### 3. Emergency Operations Center Debris Liaison Officer

The EOC Debris Liaison Officer will be located at the Metro Nashville EOC and will be responsible for coordinating with the DMC staff all requests for debris activities initiated by the Metro Nashville EOC staff.

### 4. Nashville Department of Transportation Debris Coordinator

The NDOT Debris Coordinator will:

- Maintain a listing of all available NDOT equipment identified for possible debris clearing and disposal missions.
- Coordinate all NDOT debris assignments approved by the Debris Manager.
- Ensure that required logistical support is available, including cell phone, transportation, etc.
- Ensure that the Debris Manager is kept informed of cleanup progress and any problems encountered or expected.

### 5. Tennessee Department of Transportation Debris Coordinator

The Tennessee Department of Transportation Debris Coordinator will:

- Maintain a listing of all available TDOT equipment identified for possible debris removal and disposal missions.
- Coordinate all TDOT debris assignments on interstates and highways requested by the Debris Manager.
- Ensure that required logistical support is available, including cell phone, transportation, etc.
- Ensure that the Debris Manager, TEMA and OEM are kept informed of cleanup progress and any problems encountered or expected.

Primary Point of Contact: *Frank Horne, Director-Incident Mgmt.,(615)253-0042*

### 6. Metro Parks and Recreation Debris Coordinator

The Parks and Recreation Debris Coordinator will:

- Maintain a listing of all available Parks equipment identified for possible debris removal and disposal missions.
- Coordinate all Parks debris assignments approved by the Debris Manager.
- Ensure that required logistical support is available, including cell phone, transportation, etc.
- Ensure that the Debris Manager and OEM are kept informed of cleanup progress and any problems encountered or expected.

Point of Contact: *Metro Parks, Director, (615)862-8400*

### 7. Debris Management Center Staff

The DMC is organized to provide a central location for the coordination and control of all debris management requirements. The DMC will be located at 750 South 5th Street , (615) 862-8700.

The DMC organizational diagram shown in Figure 1 identifies the DMC staff positions required to coordinate the actions necessary to remove and dispose of debris using both Metro Nashville and Contractor assets.

Specific DMC staff actions will include the following:

- Making recommendations for Metro Nashville Departmental and Contractor work assignments and priorities based on the Metro Nashville Debris Control Zones. Appendix B contains a map showing the boundaries of the various Debris Control Zones.
- Reporting on debris removal and disposal progress, and preparing status briefings.
- Provide force labor accounting and contract related information to Finance.
- Providing input to the EOC PIO on debris removal and disposal activities.
- Coordinating with the State on debris issues affecting adjacent counties.
- Coordinating Metro Nashville debris removal and disposal operations with NDOT's Operations Division and environmental regulators from Local, State, and Federal agencies.
- Coordinating with the following Federal agencies in the event of a major natural or man-made debris-generating disaster that exceeds the Metro Nashville's capabilities:
  - Federal Emergency Management Agency (FEMA)
  - Tennessee Emergency Management Agency (TEMA)
  - Local Office of the Federal Bureau of Investigation (FBI)

### 8. Public Information Officer

The NDOT PIO will serve as the DMC liaison to the OEM PIO. The PIO will develop a proactive information management plan. Emphasis will be placed on actions that the public can perform to expedite the cleanup process. Flyers, newspapers, radio, TV public service announcements, social media such as Facebook, Twitter, and Websites will be used to encourage public cooperation for such activities as:

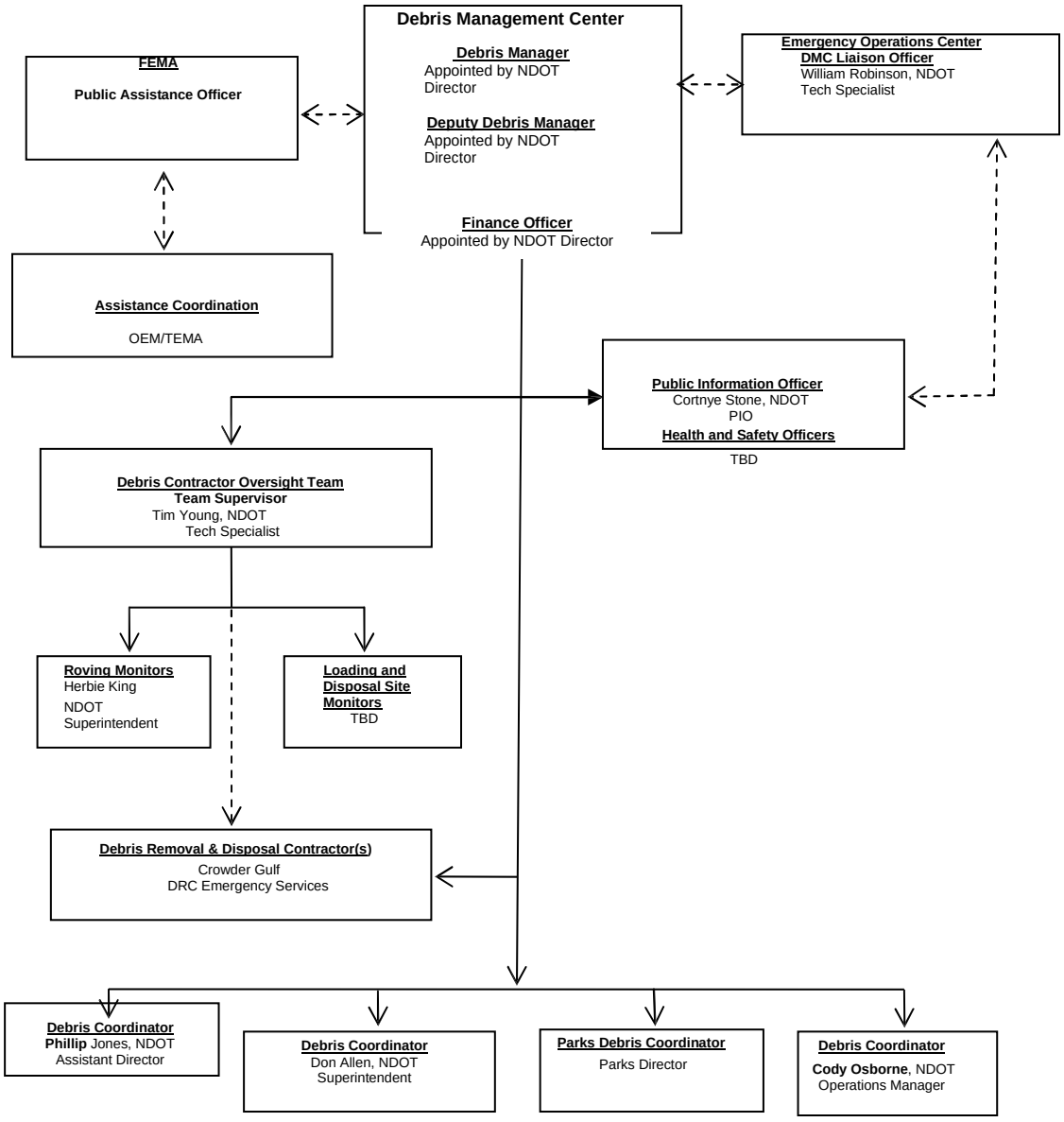
- Separating burnable and non-burnable debris.
- Segregating Household Hazardous Waste (HHW).
- Placing disaster debris at the curbside.
- Keeping debris piles away from fire hydrants and valves.
- Reporting locations of illegal dump sites or incidents of illegal dumping.
- Segregating recyclable materials.
- Disseminate pickup schedules through the local news media.

Point of Contact: *Cortnye Stone, NDOT PIO, (615)880-2439*

### 9. Health and Safety Officer

Assigned Health and Safety Officers will be responsible for oversight of all health and safety related issues at all debris related sites where worker and public safety could be at risk. The Department of Health will coordinate these activities with all agencies and contractors involved.

**Figure 1 - Debris Management Center Organization Chart**



## *IV. Debris Management Response and Recovery Operations*

The Debris Manager will be the single point of contact to coordinate and control all personnel and equipment responding to a major debris-generating event. This plan provides guidance for the efficient and effective control and coordination of initial debris assessments through debris clearance, removal, and disposal operations.

### A. Damage Assessment Teams

The Debris Manager is responsible for coordinating impact assessment for all Metro Nashville public structures, equipment, and debris clearance immediately following a large- scale disaster. Impact assessments are performed by Damage Assessment Teams and used to prioritize impacted areas and resource needs. The teams will be composed of NDOT and other appropriate personnel assigned by the Debris Manager.

The DMC Debris Coordinator will have the primary mission of coordinating the efforts of NDOT personnel to identify debris impacts on critical roads and make initial estimates of debris quantities. Based on this prioritization, the Debris Manager will issue urgent assignments to clear debris from at least one lane on all evacuation routes and identified primary and secondary roads to expedite the movement of emergency service vehicles such as fire, police, and medical responders. A listing of Critical Facilities is provided in Appendix C. The Primary Road Clearance List is found in Appendix D.

Damage Assessment Teams will conduct initial zone-by-zone windshield surveys to identify the type of debris and to estimate amounts of debris on the roadways and on private and public property. The results of the windshield surveys will be provided to Debris Manager and to the DMC Liaison Officer located at the Metro Nashville EOC.

The Debris Manager will establish initial priority for debris clearance based upon the following ranking as provided by the Damage Assessment Teams:

- Extrication of people.
- Major flood drainage ways.
- Egress for Fire, Police, and Emergency Operations Center.
- Ingress to hospitals, jail, and special care unit.
- Major traffic routes.
- Supply distribution points and mutual aid assembly areas.
- Government facilities.
- Public Safety communications towers.
- American Red Cross shelters.

- Secondary roads to neighborhood collection points.
- Access for utility restoration.
- Neighborhood streets.
- Private property adversely affecting public welfare.

During the debris clearance and removal process, the DMC staff will be responsible for coordinating with the Debris Coordinator and other utility companies (such as telephone and cable TV) as appropriate to ensure that power lines do not pose a hazard to emergency work crews.

## B. Phase I – Initial Response

For ease of control and coordination, debris management operations are divided into two phases.

Phase I will be implemented immediately after a debris-generating event to open emergency evacuation routes and roadways to critical facilities and affected neighborhoods. The major emphasis during this phase is to simply push debris from the traveled way to the right-of-way or curb. This activity is commonly referred to as Debris Clearance. Little or no effort is made to remove debris from the right-of-way.

NDOT will be responsible for implementing all Phase I activities with support as required from other Metro Nashville Departments and Agencies as needed. Requests for additional assistance will be submitted to the Debris Manager located at the DMC.

Phase I activities include:

- Implementation of the Debris Management Plan.
- Determination of incident-specific debris management responsibilities.
- Establishment of priorities based on evacuation needs and prediction models.
- Identification and procurement of debris management sites.
- Activation of pre-positioned contracts, if necessary to support clearance operations.
- Implementation of Public Information Plan.
- Coordination and tracking of resources.
- Formal documentation of costs and implementation of Finance Plan.

## C. Phase II - Recovery

Phase II will be implemented within two to five days following a major debris-generating event, and will encompass the processes of debris removal and disposal. This delay is normal and allows time for affected citizens to return to their homes and begin the cleanup process. Debris must be brought to the rights-of-way or curb to be eligible for removal at public expense.

The Debris Manager will be responsible for implementing all Phase II activities with support as required from NDOT and other Metro Departments and Agencies as needed. All debris removal and disposal operations will be coordinated by the Debris Manager located at the DMC. Phase II may be quite lengthy as disaster recovery continues until pre-disaster conditions are restored.

Phase II activities include:

- Activation of pre-positioned contracts.
- Notification to citizens of debris removal procedures.
- Activation of debris management sites.
- Removal of debris from rights-of-way and critical public facilities.
- Movement of debris from debris management sites to permanent landfills.
- Final documentation of costs for reimbursement, as applicable.

## D. Phase II Debris Removal and Disposal Overview

The general concept of debris removal operations includes multiple, scheduled passes by each critical site, location, or right-of-way. This manner of scheduling debris removal allows residents to return to their properties and bring debris to the edge of the right-of-way as property restoration proceeds.

Metro Nashville has been divided into 12 Debris Control Zones to control and expedite debris-removal and disposal operations (please refer to Appendix B for zone delineation). The estimated quantity of debris that would be generated by an F4 Tornado for each Debris Control Zone is shown below in Table 1. Estimated county-wide debris quantities for Tornado Scales F1 through F5 are shown in Table 2.

| | | DAVIDSON | | COUNTY | | |
|---|---|---|---|---|---|---|
| Zone Number | Estimated Single Family Households | Estimated Debris from F4 Tornado CY | | Zone Number | Estimated Single Family Households | Estimated Debris from F4 Tornado CY |
| 1 | 14034 | 342,078 | | 7 | 14246 | 347,246 |
| 2 | 29397 | 716,551 | | 8 | 23888 | 582,270 |
| 3 | 28474 | 694,053 | | 9 | 26476 | 645,352 |
| 4 | 36742 | 895,582 | | 10 | 13644 | 332,572 |
| 5 | 24860 | 605,962 | | 11 | 12204 | 297,472 |
| 6 | 20109 | 490,156 | | 12 | 11533 | 281,116 |

**TABLE 1 – Debris Control Zone Estimates**

## DAVIDSON COUNTY

Fujita Tornado Scale

| | |
|---|---|
| F1 | 73-112 mph |
| F2 | 113-157 mph |
| F3 | 158-206 mph |
| F4 | 207-260 mph |
| F5 | 261-318 mph |

**Estimated Debris Quantities**

Population: 659,042

| | | | Estimated damage @ 50% of total single family homes | | | | |
|---|---|---|---|---|---|---|---|
| | | Units | F1 | F2 | F3 | F4 | F5 |
| Single Family Homes Affected (=Pop./3) | 202471 | | 101235.5 | 101235.5 | 101235.5 | 101235.5 | 101235.5 |
| Fujita Strength Factor | | F | 2 | 8 | 26 | 50 | 80 |
| Vegetation Factor | | V | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Commercial Density | | B | 1 | 1 | 1 | 1 | 1 |
| Precipitation | | S | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| | | | | | | | |
| Q = H(C)(V)(B)(S) | | CY | 394,818 | 1,579,274 | 5,132,640 | 9,870,461 | 15,792,738 |

**Debris Reduction Site Requirements**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 Acre (ac) | | | | | | |
| 10 Feet Stack Height | | | | | | |
| Total Volume per Acre | | | | | | |
| Quantity | CY | 394,818 | 1,579,274 | 5,132,640 | 9,870,461 | 15,792,738 |
| Acres Required | ac | 25 | 99 | 321 | 617 | 987 |
| Road Buffers, etc. | ac | 41 | 164 | 532 | 1,024 | 1,638 |
| Square Miles Required | Sq. M | 0.1 | 0.3 | 0.8 | 1.6 | 2.6 |

**Debris Classification**

| | | | | | | |
|---|---|---|---|---|---|---|
| Clean Woody Debris | CY | 118,446 | 473,782 | 1,539,792 | 2,961,138 | 4,737,821 |
| Mixed C&D | CY | 276,373 | 1,105,492 | 3,592,848 | 6,909,323 | 11,054,917 |
| Burnable | CY | 116,077 | 464,306 | 1,508,996 | 2,901,916 | 4,643,065 |
| Soil | CY | 13,819 | 55,275 | 179,642 | 345,466 | 552,746 |
| Metals | CY | 41,456 | 165,824 | 538,927 | 1,036,398 | 1,658,237 |
| Land filled | CY | 105,022 | 420,087 | 1,365,282 | 2,625,543 | 4,200,868 |

**Table 1 - Estimated Debris Quantities for Davidson County**

## E. Phase II Debris Removal and Disposal Operations

The Debris Manager and staff will coordinate debris removal and disposal operations for all portions of the Metro Nashville. Phase II operations involve the removal and disposal of curbside debris by Metro Nashville and/or Contractor Crews. All Metro Nashville hired debris removal and disposal Contractor operations will be overseen by the Debris Contractor Oversight Team (DCOT).

Under this plan, mixed debris will be collected and hauled from assigned Debris Control Zones to NDOT's designated debris management sites or to designated landfill locations. Clean woody debris will be hauled to the nearest designated vegetative debris management site for eventual burning or grinding. A listing of temporary debris staging and reductions sites can be found in Appendix E.

The primary tracking mechanism for all debris loaded, hauled, and disposed of under this plan will be the Load Ticket, which is shown in Figure 2. Load tickets will be initiated at pickup sites and closed-out upon drop-off of each load at a debris management site or permanent landfill, and are to be used to document both Metro Nashville and Contracted haulers. Load tickets will serve as supporting documentation for Contractor payment as well as for requests for reimbursement from federal grant programs (FEMA) and mutual aid recipients.

**Figure 2 - Sample Load Ticket**

| METRO GOVERNMENT OF NASHVILLE<br>**LOAD TICKET** | **Ticket No.** 000001 |
|---|---|
| **Section 1** | |
| **Prime Contractor:** | **Date:** |
| **Subcontractor (Hauler):** | **Departure Time:** |
| **Driver:** | **Truck Plate No.:** |
| **Measured Bed Capacity (cu. yds.):** | |
| **Debris Pickup Site Location:**<br>**(must be a street address)** | |
| **Debris Type:** ☐ **Vegetation** ☐ **Construction & Demolition**<br>☐ **Mixed** ☐ **Other:** _____ | |
| **Loading Site Monitor:** **Print Name:** _____<br>**Signature:** | |
| **Remarks:** | |
| **Section 2** | |
| **Debris Disposal Site Location:** | |
| **Estimate Debris Quantity (cu. yds.):** | **Arrival Time:** |
| **Disposal Site Monitor:** **Print Name:** _____<br>**Signature:** | |
| **Remarks:** | |
| Copies: White – Load Site Monitor Green – Disposal Site Monitor<br>Canary, Pink, Gold – Onsite Contractor's Representative or Driver | |

For tracking of all debris moved in response to a given event, the following is the disposition of each ticket part:

Part 1 (White) Load Site Monitor (Turned in daily to the DMC)
Part 2 (Green) Disposal Site Monitor (Turned in daily to the DMC)
Part 3 (Canary) Driver or Contractor's on-site representative (Contractor Copy)
Part 4 (Pink) Driver or Contractor's on-site representative (Contactor Copy)
Part 5 (Gold) Driver or Contractor's on-site representatives (Driver/Subcontractor Copy)

## 1. Debris Contractor Oversight Team

The DCOT is responsible for the coordination, oversight, and monitoring of all debris removal and disposal operations performed by private Contractors (see Appendix F, Debris Contract Oversight Team Standard Operating Guidelines).

The DCOT supervisor and team members will be detailed from NDOT, as well as from other Metro Nashville Departments as required. The DCOT team may also be supplemented with contracted inspectors and other personnel as needed.

The DCOT team supervisor will be located at the DMC and will provide overall three roving monitors, load site monitors, and disposal site monitors described below. Specific responsibilities include the following:

- Planning and conducting debris management site inspections, quality control, permit verification, and other Contractor oversight functions.
- Receiving and reviewing all debris load tickets that have been verified by a Disposal Site Monitor (see description below).
- Making recommendations to the Debris Manager regarding distribution of Metro Nashville and Contractor work assignments and priorities.
- Reporting on progress and preparation of status briefings.
- Providing input to the DMC PIO on debris cleanup activities and pickup schedules. The

DCOT Supervisor will oversee the activities of three types of monitors. The functions and responsibilities of the field monitors are described below (see Appendix G, Debris Removal and Disposal Monitoring Plan).

a. Roving Monitors

Two-person teams of Roving Monitors will be assigned to specific Debris Control Zones or to a specific Contractor depending upon the distribution of work assignments. The Roving Monitors' mission is to act as the "eyes and ears" for the Debris Manager and DCOT Supervisor to ensure that all contract requirements, including safety, are properly implemented and enforced.

Staff to fulfill the Roving Monitor positions will be provided by NDOT and from other Metro Nashville personnel. Roving Monitors will have the authority to monitor Contractor operations and to report any problems back to the DCOT Supervisor. Roving Monitors may request contract compliance, but do not have the authority to otherwise direct Contractor operations or to modify the contract scope of work.

Roving Monitors will monitor debris operations on a full-time basis and make unannounced visits to all loading and disposal sites within their assigned debris management zone(s). In addition, Roving Monitors shall do the following:

- Assist in the measuring of all Contractor trucks and trailer with the Contractors representative. Take photographs of all trucks and trailers.

- Obtain and become familiar with all debris removal and disposal contracts for which they are providing oversight.

- Observe all phases of debris management operation, to include loading sites, debris management sites, and final landfill sites.

- Prepare a daily written report of all Contractor activities observed to include photographs.

- Periodically monitor each debris management site to ensure that operations are being followed as specified in the applicable Debris Removal and Disposal Contract with respect to local and Federal regulations and the Debris Removal and Disposal Monitoring Plan (Appendix G).

- Roving Monitors will also submit daily written reports to the DCOT supervisor outlining their observations with respect to the following:

- Is the Contractor using the site properly with respect to layout and environmental considerations?

- Has the Contractor established lined temporary storage areas for ash, household hazardous wastes, and other materials that can contaminate soil and groundwater?

- Has the Contractor established environmental controls in equipment staging areas, fueling, and equipment repair areas to prevent and mitigate spills of petroleum products and hydraulic fluids?

- Are plastic liners in place under stationary equipment such as generators and mobile lighting plants?

- Has the Contractor established appropriate rodent control measures?

- Are burn sites constructed and operating in accordance with the plans and requirements in Appendix H?

- Has the Contractor established procedures to mitigate smoke, dust, noise, and traffic flow?

- Roving Monitors' reports will also include written observations at loading sites, disposal sites, and the locations of any illegal dumping sites. If the monitor sees a problem they are to notify the DMC immediately and take photographs of the site.

b. Load Site Monitors

Load Site Monitors will be stationed at designated Contractor debris loading sites. The Load Site Monitors' primary function is to verify that debris being picked up is eligible under the terms of the contract.

Load Site Monitor positions will be staffed from NDOT and supplemented by other Metro Nashville Department personnel depending on the magnitude of the debris-generating event. Load Site Monitors will be assigned to each Contractor's debris loading site within designated Debris Control Zones, and will initiate and sign load tickets as verification that the debris being picked up is eligible.

c. Disposal Site Monitors

Disposal Site Monitors will be located at both debris management sites and landfill sites as identified by the DMC throughout the recovery process. The Disposal Site Monitors' primary function is to ensure that accurate load quantities are being properly recorded on pre-printed load tickets (see Figure 2).

At each debris management site and landfill disposal site, the Contractor will be required to construct and maintain a monitoring station tower for use by the Disposal Site Monitor. The Contractor will construct the monitoring station towers of pressure treated wood with a floor elevation that affords the Disposal Site Monitor a complete view of the load bed of each piece of equipment being utilized to haul debris. The Contractor will also provide each site with chairs, table, and portable sanitary facilities.

The Disposal Site Monitor will estimate the quantity (in cubic yards) of debris in each truck/trailer entering the Contractor's selected temporary debris management site or landfill disposal site and will record the estimated quantity on pre-numbered debris load tickets. The Contractor will only be paid based on the number of cubic yards of material deposited at the disposal site as recorded on debris load tickets. This is to be done on all types of debris removal contracts and force account vehicles.

Disposal Site Monitors will be staffed by NDOT and other Metro Nashville personnel depending on the magnitude of the debris-generating event. The Disposal Site Monitors will be stationed at all debris management sites and landfill disposal sites for the purpose of verifying the quantity of material being hauled by the Contractor. The Disposal Site Monitor will be responsible for closing out and signing each load ticket and returning a copy to the DCOT Supervisor at the end of each day.

**2. Franchise Garbage Contractors**

Franchise garbage Contractors will continue to pick up refuse in accordance with current procedures, routes, and removal schedules. They will not haul disaster debris unless expressly authorized by the Debris Manager.

### 3. Household Hazardous Waste Drop-Off Locations

The Debris Manager will identify one or more Household Hazardous Waste (HHW) drop-off locations within each of the Debris Control Zones. Contractors will be encouraged to separate HHW at the curb and not haul it to a Debris Management Site. Residents will be encouraged to separate and transport HHW to pre-identified drop-off points. The Water Services Solid Waste Supervisor will coordinate with OEM, TDEC, and local Environmental Protection Agency (USEPA) officials for the collection of eligible industrial or commercial hazardous waste resulting from the disaster.

### 4. Utility Company Property

Nashville Electric Service (736-6900) and other Utility Crews will remove and dispose of all utility related debris such as, power transformers, utility poles, cable, and other utility company material.

### 5. Use of Force Account Labor to Perform Work

The use of force account labor shall be implemented by Metro Nashville to perform debris clearance and disposal, hazardous waste removal, infrastructure repair, damage assessments, safety inspections, private property debris removal, search and rescue operations, evacuations, TDSR monitoring, and environmental remediation. Additional types of work may be required as needed based on the event type.

### 6. Equipment Assets

A table summarizing the equipment that NDOT, and Parks and Recreation, currently have in inventory for possible assistance with debris removal is included in Appendix I.

### 7. Contractor Debris Removal and Disposal Operations

The Metropolitan Government of Nashville recognizes that disasters may generate debris of types and quantities that exceed the City's capabilities. Thus, the City will implement a pre-positioned competitive contracting process to have Contractors on stand-by to respond within a pre-determined period to assist in requested aspects of the debris operation.

The Debris Manager or his or her authorized representative will contact the firm(s) holding pre-positioned debris removal and disposal contract(s) and advise them of impending conditions. The scope of the pre-positioned contract provides for the removal and lawful disposal of all natural disaster-generated debris, excepting household, industrial, or commercial hazardous waste. Debris removal will be limited to Metro Nashville maintained streets, roads, and other public rights-of-way based on the extent of the disaster. Debris removal will be limited to disaster related material placed at or immediately adjacent to the edge of the rights-of-way by residents within designated Debris Control Zones.

Each Contractor, upon receipt of notice to proceed, will mobilize such personnel and equipment as necessary to conduct the debris removal and disposal operations detailed in the Contractor's General Operations Plan (required by the Debris Removal and Disposal Contract). All Contractor operations will be subject to review by the Debris Manager.

The Contractor will make multiple, scheduled passes of each site, location, or area impacted by the disaster according to assigned Debris Control Zones and as directed by the Debris Manager. Schedules will be provided to the DMC PIO for publication and notification by the news media.

The load ticket, coupled with inspections by Roving, Load Site, and Disposal Site Monitors, will be the primary mechanism for monitoring Contractor performance and tracking quantities for pay purposes.

## 8. Contracting and Procurement Procedures

Procurement of all debris related services shall comply with current Metro Nashville procurement procedures, State procurement ordinances, and Federal procurement requirements as outlined in Title 44 CFR. Current debris related contractors were selected through a competitive procurement issued by the Purchasing Division of the Metro Finance Department on behalf of NDOT.

The RFQ's for debris related services were posted to the public via Metro Nashville's Online Procurement website at (http://www.nashville.gov). Publicly open pre-bid meetings were held for vendors outlining the debris related services required. After competitive bids were placed by vendors the following contracts were awarded in 2021 and are currently pre-qualified to assist in emergency debris removal and disposal.

1. Contract Number 380395 was awarded to Crowder Gulf as the Primary Contractor.
2. Contract Number 380395 was awarded to DRC Emergency Services as the Secondary Contractor.

Details of these contracts are currently available online at (http://www.nashville.gov/Finance) or by calling Metro Nashville Finance/Purchasing at (615) 862-6151.

Any emergency procurement or contract must be pre-approved by the Metro Nashville Finance Department Procurement Officer. All applications for emergency contract and procurements relating to debris services shall be consistent with the Debris Removal Applicants Contracting Checklists outlined in Appendix K.

## 9. Temporary Debris Management Sites

The Metro Government of Nashville recognizes the economic benefits of debris volume reduction, and will realize this benefit through the use of local debris management sites for processing of clean woody debris. NDOT has identified pre-designated vegetative debris management sites for the sole purpose of temporarily storing and reducing clean woody debris through either burning or grinding. A listing of debris management sites is located in Appendix E.

Contractors will operate debris management sites designated by the Debris Manager and made available by NDOT and/or Parks and Recreation. Each Contractor will be responsible for all site setup, site operations, rodent control, closeout, and remediation costs at each of its sites. The Contractor is also responsible for the lawful disposal of all by-products of debris reduction that may be generated.

The Contractor will restore the debris management sites as close to the original condition as is practical so that it does not impair future land uses. All sites are to be restored to the satisfaction of the Debris Manager with the intent of maintaining the utility of each site.

Contractors are also expected to haul and manage construction and demolition (C&D) waste. C&D materials will be hauled to debris management sites for temporary sorting and storage until final disposal arrangements are made.

It is important to note that all material deposited at debris management sites will eventually be taken to a properly permitted landfill for final disposal. Under certain circumstances, the Debris Manager may direct Contractors to bypass C&D debris management sites and approve the hauling of mixed C&D debris directly to a properly permitted landfill for disposal.

While residents will be encouraged to segregate HHW at curbside, small amounts of HHW may be mixed in with material deposited at the debris management sites. Therefore, the Contractor must be prepared to place any HHW in a separate enclosed and lined area for temporary storage, and must report any accumulation of HHW at the debris management sites to the DCOT staff. The DCOT staff will notify the Debris Coordinator, who will coordinate for removal and disposal.

## 10. Load Ticket Disposition

The Load Ticket will be a 5-part pre-printed form (see Figure 2).

At initiation of each load, the Load Site Monitor will fill out all items in Section 1 of the Load Ticket and will retain Part 1 (White Copy). The remaining copies will be given to the driver and carried with the load to the disposal site.

Upon arrival at the disposal site, the driver will give all four copies to the Disposal Site Monitor. The Disposal Site Monitor will complete Section 2 of the Load Ticket and retain Part 2 (Green). Parts 3, 4, and 5 will be given either to the Contractor's on-site representative or to the truck driver for subsequent distribution.

All trucks will be measured by the Contractor and DMC staff before the operation begins and periodically re-checked throughout the operation.

The Contractor will be paid based on the number of cubic yards of eligible debris hauled per truckload. Payment for hauling debris will only be approved upon presentation of Part 4 (Pink) of the Load Ticket with the Contractor's invoice.

Load tickets will also be completed and retained for Metro Nashville force account vehicles as a primary mechanism for tracking debris quantities deposited at debris management sites.

## 11. Temporary Debris Management Site Setup and Closeout Procedures

The Contractor will be responsible for preparing and closing out a temporary debris management site in accordance with the specifications in the Debris Clearing, Removal, and Disposal guidance contained in Appendix H.

## 12. Private Property Debris Disposal

Dangerous structures are the responsibility of the owner to demolish in order to protect the health and safety of adjacent residents. However, experience has shown that unsafe structures will often remain in place due to lack of insurance or absentee landlords. Care must be exercised to ensure that the City properly identifies structures listed for demolition. The Nashville Department of Transportation Engineering Division and Metro Codes Administration will assist in identifying unsafe structures. In addition, when in the public interest for health and safety, the removal of debris from private property may be conducted and coordinated by the Debris Manager. Cost recovery for private property debris removal and/or demolition shall be coordinated by the Finance Officer with the Metro Nashville Legal Office in accordance with authorizing Metro Nashville Codes 13.32, 16.04, 16.24, 15.64, and any other applicable ordinances or laws.

The Debris Manager will coordinate with the OEM, State and FEMA Public Assistance Officers regarding:

- Demolition of private structures.
- Removing debris from private property.
- Local law and/or code enforcement requirement.
- Historic and archaeological sites restrictions.
- Qualified environmental Contractors to remove hazardous materials such as asbestos and lead-based paint.
- Execution of Right-of Entry/Hold Harmless agreements with landowners. A sample Right-of-Entry/Hold Harmless agreement is shown in Appendix H.

## 13. Recycling Debris

During debris generating events it is the intent of this plan to recycle as much debris as feasible. Coordination and oversight of the recycling process will be the responsibility of the currently TDEC permitted NDOT/Water Services Recycling Program. Generally, recycled debris will be classified as follows:

**Vegetative Debris –** volume reduced, processed yard trash/vegetative storm debris will be transported to agricultural fields for use as a soil amendment in accordance with Tennessee Department of Environment and Conservation (TDEC) policies for use of such materials and/or to co-generation power plants for use as boiler fuel.

**Non-Vegetative, Non Hazardous Debris –** These materials commonly referred to as C/D (construction demolition debris) will be directed to TDEC permitted C/D recycling facilities, if financially feasible and if volumes do not exceed the handling capacity of the Debris Management System of TDSR sites.

## 14. Environmental Requirements

Following a disaster event, compliance with environmental protection laws and regulations is required. Federal and State Environmental Protection Agencies including, but not limited to, TDEC, Metro Water, and Metro Health Department should be consulted for applicable regulatory requirements.

Consideration should be given to all debris management activities that could possibly trigger compliance related issues such as dredging, demolition, construction, debris site operations, debris clearance, removal, disposal, recycling, reduction, demolition, and disposition of hazardous waste. Preservation of historic sites, clean air and water, and the protection of wildlife should always be a priority during debris operations.

All debris related activities shall be coordinated with Federal, State, and Local agencies, including but not limited to EPA and the Metro Nashville Historic Commission to ensure compliance with environmental and historic preservation laws/regulations/policies and determining environmental monitoring and reporting requirements for TDSR’s,

The agency shall also maintain records for historical purposes.

See Appendix H “Debris Clearing, Removal, and Disposal Guidelines”

## 15. Permitting

All environmental and land-use variances permits necessary to establish temporary debris management sites shall be obtained. Debris operations will comply with all Federal, State, and local regulations. Several agencies may be involved in issuing permits. It is recommended that the agency directly responsible for the area of concern be contacted to obtain the permit(s) needed. If assistance is needed in determining the type of permit required, direct all inquiries to the NDOT Permit Office located at 720 South 5th St. Nashville, Tn. (615) 862- 8782.

The following is a list of potential permits that may be required in debris operations:

- Waste processing and recycling operations permit
- Temporary land-use variances or permits
- Traffic or entrance permits
- Air quality permits
- Water quality permits
- Coastal commission land-use permits
- HHW permits
- Fire department permits
- Freon removal from white goods
- Erosion and sediment control

## 16. Health and Safety

All debris related activities shall comply with the requirements of the Health and Safety Plan outlined in the Metro CEMP, and all federal, state, and local regulations. Assigned Health and Safety Officers shall monitor that all appropriate safety procedures are followed and shall periodically check on the work of all Contractors, Subcontractors and Metro Agencies to make sure that applicable provisions are followed in order to protect workers and the public at large.

A Health and Safety Strategy is outlined in (Appendix J) and enables agencies and their contractors to avoid accidents during debris recovery operations and to protect workers from exposure to hazardous materials. The Health and Safety Strategy also establishes minimum safety standards for the agency and contractor personnel to follow.

The agencies and contractors will disseminate this safety information and outline how they will monitor compliance with the minimum safety standards to all emergency workers. The Health and Safety Strategy also includes specific corrective actions to be taken if contractors or workers do not comply with the minimum safety standards.

Debris operations involve the use of heavy equipment to move and process various types of debris. Many of these actions can pose safety hazards to emergency response, recovery personnel, and to the public. In addition to those safety hazards, exposure to certain types of debris, such as building materials that contain asbestos, or mixed debris that contains hazardous materials, can pose potential health risks to emergency workers.

The Health and Safety Strategy provides emergency workers with information on how to identify hazardous conditions and specific guidelines on the appropriate and proper use of personal protective equipment.

## *V. Weapons of Mass Destruction/Terrorism Event*

The handling and disposal of debris generated from a Weapons of Mass Destruction (WMD) or terrorism event will exceed the capabilities of Metro Nashville and will require immediate Federal assistance.

Normally, a WMD or terrorism event will, by its very nature, require all available assets and involve many more Federal and adjacent State and County Departments and Agencies. The nature of the waste stream as well as whether or not the debris is contaminated will dictate the necessary cleanup and disposal actions. Debris handling considerations that are unique to this type of event include:

- Much of the affected area will likely be a crime scene. Therefore, debris may be directed to a controlled debris management site by State and/or Federal law enforcement officials for further analysis.

- The debris may be contaminated by chemical, biological, or radiological contaminants. If so, the debris will have to be stabilized, neutralized, containerized, etc. before disposal. In such an occurrence, the operations may be under the supervision and direction of a Federal Agency and one or more specialty Contractors retained by that agency. The presence of contamination will influence the need for pre-treatment (decontamination), packaging and transportation.

- The type of contaminant will dictate the required capabilities of the personnel working with the debris. Certain contaminants may preclude deployment of resources that are not properly trained or equipped.

The Debris Manager will continue to be the single point of contact for all debris removal and disposal issues within Metro Nashville. Coordination will be exercised through the OEM, TEMA and the designated FEMA Disaster Field Office.

## *VI. Administration and Logistics*

All Metro Nashville Departments and Agencies will maintain records of force account labor, contractors, personnel, equipment, load tickets, and material resources and related costs used to comply with this plan. Such documentation will then be used to support reimbursement from any Federal assistance that may be requested or required.

All Metro Nashville Departments and Agencies supporting debris operations will ensure 24-hour staffing capability during implementation of this plan, if the emergency or disaster requires, or as directed by the Debris Manager.

All Metro Nashville Departments are responsible for the annual review of this plan in conjunction with the annual update to the OEM Comprehensive Emergency Management Plan. It will be the responsibility of each tasked department and agency to update its respective portion of the plan and ensure any limitations and shortfalls are identified and documented, and work-around procedures developed, if necessary.

The review will consider such items as:

- Changes in mission
- Changes in concept of operations
- Changes in organization
- Changes in responsibility
- Changes in desired contracts
- Changes in pre-positioned contracts
- Changes in priorities

This plan also may be updated as necessary to ensure a coordinated response as other Debris Management Plans are developed. Surrounding cities may also develop Debris Management Plans that should be coordinated with Metro Nashville's plan and other plans. This coordination is especially important with respect to allocation of resources such as temporary staging areas and disposal facilities.

# APPENDIX A

# ACRONYMS AND DEFINITIONS

# APPENDIX A

# ACRONYMS AND DEFINITIONS

## LIST OF ACRONYMS

| | |
|---|---|
| AC | Acre |
| ACI | Advance Contracting Initiative (USACE) |
| C&D | Construction and Demolition |
| CY | Cubic Yard |
| CEMP | Comprehensive Emergency Management Plan |
| DCOT | Debris Contractor Oversight Team |
| DM | Debris Manager |
| DDM | Deputy Debris Manager |
| DMC | Debris Management Center |
| NDOT | Nashville Department of Trans. |
| EOC | Emergency Operations Center |
| ESF | Emergency Support Function |
| FBI | Federal Bureau of Investigation |
| FEMA | Federal Emergency Management Agency |
| HHW | Household Hazardous Waste |
| OEM | Office of Emergency Management |
| PIO | Public Information Officer |
| PRT | Planning and Response Team |
| TEMA | Tennessee Emergency Management Agency |
| TDEC | Tennessee Department of Environment and Conservation |
| USACE | U.S. Army Corps of Engineers |
| USEPA | U.S. Environmental Protection Agency |
| WMD | Weapons of Mass Destruction |

## DEFINITIONS

**Burning –** Reduction of woody debris by controlled burning. Woody debris can be reduced in volume by approximately 95% through burning. Air curtain burners are recommended because they can be operated in a manner to comply with clean-air standards.

**Chipping or Mulching –** Reducing wood related material by mechanical means into small pieces to be used as mulch or fuel. Woody debris can be reduced in volume by approximately 75%, based on data obtained during reduction operations. The terms "chipping" and "mulching" are often used interchangeably.

**Construction, Demolition and Land-Clearing Wastes –** Any type of solid waste resulting from land-clearing operations, the construction of new buildings or remodeling structures, or the demolition of any building or structure.

**Debris -** Scattered items and materials that were broken, destroyed, or displaced by a natural disaster. Examples: trees, construction and demolition material, personal property.

**Debris Clearance –** Clearing the major road arteries by pushing debris to the roadside to accommodate emergency traffic.

**Debris Removal –** Picking up debris and taking it to a temporary storage site or permanent landfill.

**Nashville Department of Transportation (NDOT) –** Department typically responsible for clearing debris from the roads and rights-of-way, and for managing and overseeing the collection and disposal of garbage, trash, construction debris, and disaster related debris. In addition to recyclables, and operating/or overseeing local public landfills and composting sites.

**Federal Response Plan –** A plan that describes the mechanism and structure by which the Federal Government mobilizes resources and conducts activities to address the consequences of any major disaster or emergency that overwhelms the capabilities of State and Local governments.

**Final Debris Disposal –** Placing mixed debris and/or residue from volume reduction operations into an approved landfill.

**Force Account Labor –** In this context**,** State, Tribal or Local Government employees engaged in debris removal activities within their own jurisdiction.

**Garbage –** Waste that is normally picked up by a designated department (such as the Metro Water Waste Services or a Contractor). Examples: food, plastics, wrapping, papers.

**Hazardous Waste –** Any waste or combination of wastes of a solid, liquid, contained gaseous or semisolid form which because of its quantity, concentration, or physical, chemical, or infectious characteristics may:

- Cause or significantly contribute to an increase in mortality or an increase in serious irreversible or incapacitating reversible illness
- Pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Also includes material and products from institutional, commercial, recreational, industrial and agricultural sources that contain certain chemicals with one or more of the following characteristics, as defined by the Environmental Protection Agency: 1) Toxic, 2) Flammable, 3) Corrosive; and/or 4) Reactive. Such wastes may include, but are not limited to, those that are persistent in nature, assimilated, or concentrated in tissue or which generate pressure through decomposition, heat, or other means. The term does not include solid or dissolved materials in domestic sewage or solid dissolved materials in irrigation return flows, or industrial discharges, which are point sources subject to state or federal permits.

**Household Hazardous Waste (HHW) –** Used or leftover contents of consumer products that contain chemicals with one or more of the following characteristics, as defined by the Environmental Protection Agency: 1) Toxic, 2) Flammable, 3) Corrosive and/or 4) Reactive. Examples of household hazardous waste include small quantities of normal household cleaning and maintenance products, latex and oil based paint, cleaning solvents, gasoline, oils, swimming pool chemicals, pesticides, and propane gas cylinders.

**Hot Spots –** Illegal dumpsites that may pose health and safety threats.

**Illegal Dumping –** Dumping garbage and rubbish, etc., on open lots is prohibited. No garbage, refuse, abandoned junk, solid waste or other offensive material shall be dumped, thrown onto, or allowed to remain on any lot or space within the City.

**Industrial Waste –** Any liquid, gaseous, solid, or other waste substance, or a combination thereof resulting from any process of industry, manufacturing, trade, or business or from the development of any natural resources.

**Monitoring –** Actions taken to ensure that a Contractor complies with the contract scope of work.

**Mutual Aid Agreement –** A written understanding between communities, states, or other government entities delineating the process of providing assistance during a disaster or emergency. (See FEMA Response and Recovery Directorate Policy Number 9523.6, "Mutual Aid Agreements for Public Assistance", dated August 17, 1999.)

**Recycling –** The recovery and reuse of metals, soils, and construction materials that may have a residual monetary value. The City encourages the voluntary participation of all of its residents to reduce the waste stream through recycling. Residents are strongly encouraged to recycle all items that are recyclable and throw away for ultimate landfill disposal only those items, which cannot be recycled. Special containers are provided at numerous manned recycling and solid waste centers for the storage and collection of:

- Newspapers
- Green glass
- Brown glass
- Clear glass
- Aluminum and bi-metal beverage cans
- PET plastic milk jugs
- HDPE plastic drink bottles
- Used motor oil
- Lead acid batteries
- Scrap metals and appliances including refrigerators, stoves, water heaters, etc.
- Composts including leaves, limbs, brush, and yard wastes

**Rights-of-Way –** The portions of land over which facilities, such as highways, railroads, or power lines are built. Includes land on both sides of the highway up to the private property line.

**Scale/Weigh Station –** A scale used to weigh trucks as they enter and leave a landfill. The difference in weight determines the tonnage dumped and a tipping fee may be charged accordingly. Also may be used to determine the quantity of debris picked-up and hauled.

**Sweeps –** The number of times a contractor passes through a community to collect all disaster-related debris from the rights-of-way. Usually limited to three passes through the community.

**Temporary Debris Storage and Reduction (TDSR) Site –** A location where debris is temporarily stored until it is sorted, processed, and reduced in volume and/or taken to a permanent landfill.

**Tipping Fee –** A fee based on weight or volume of debris dumped that is charged by landfills or other waste management facilities to cover their operating and maintenance costs. The fee also may include amounts to cover the cost of closing the current facility and/or opening a new facility.

**Trash –** Non-disaster related yard waste, white metals, or household furnishings placed on the curbside for pickup by local solid waste management personnel. Not synonymous with garbage.

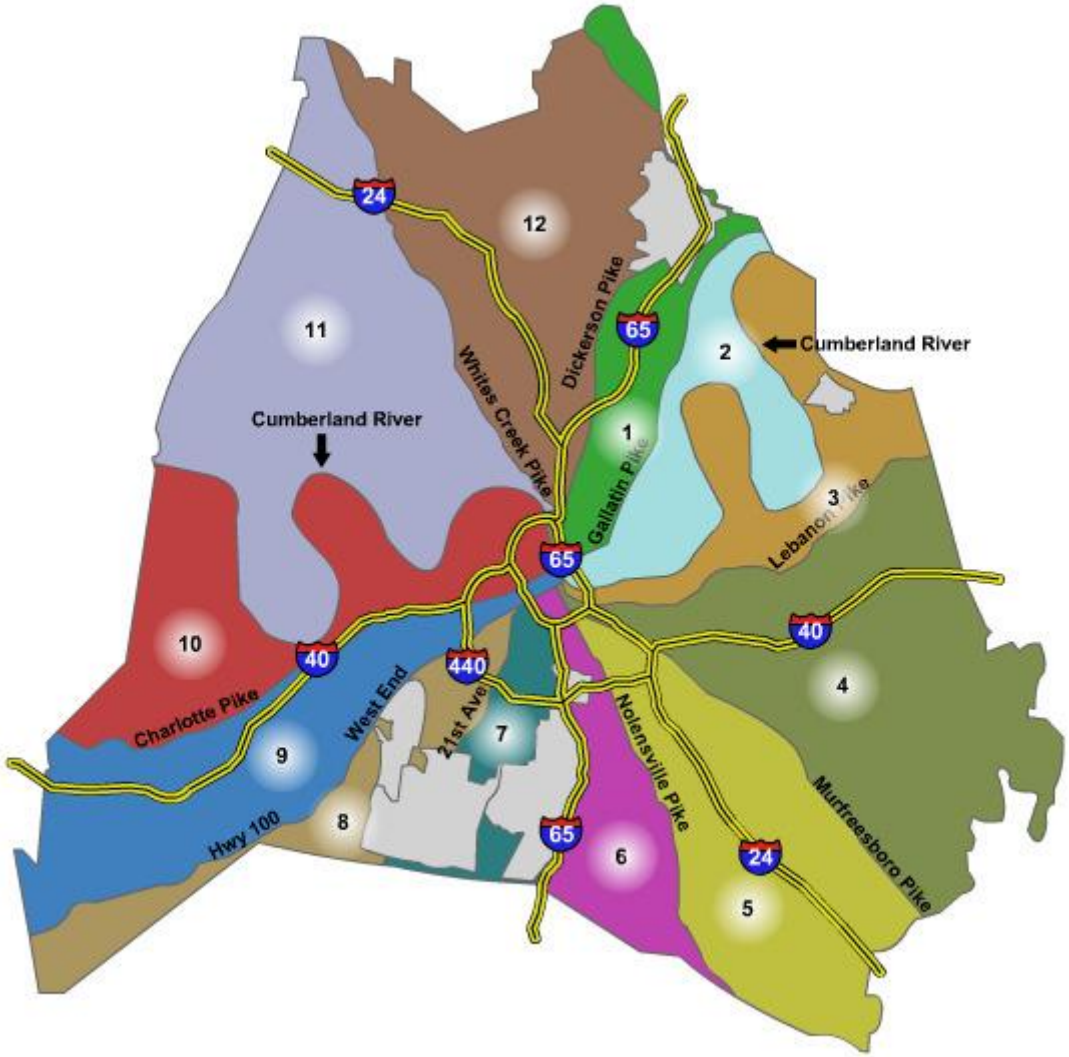
**Volume Reduction Operations –** Any of several processes used to reduce the volume of debris brought to a temporary debris storage and reduction site. It includes chipping and mulching of woody debris, shredding and baling of metals, air curtain burning, etc.

**White Metals –** Household appliances such as refrigerators, washers, dryers, and freezers.

# APPENDIX B

# DEBRIS CONTROL ZONE INDEX MAP

# METRO NASHVILLE
# DEBRIS CONTROL ZONES



# APPENDIX C

# CRITICAL FACILITIES

| Sector | Asset Name |
|---|---|
| | |
| ***Banking and Finance*** | |
| | TPC |
| | |
| ***Chemical*** | |
| | Austin Powder Co |
| | DuPont |
| | Innophous Chemical |
| | Amerigas Propane |
| | Purity Dairies |
| | Airgas |
| | Flame Gas |
| | Mrs. Grissom |
| | Odoms TN Pride Sausage |
| | Pepsi Bottling |
| | Robert Orr Sysco |
| | Coca Cola Bottling |
| | Choice Food of America |
| | Central WWTP |
| | Dry Creek WWTP |
| | KR Harrington WTP |
| | Omohundro WTP |
| | Whites Creek WWTP |
| | Whirlpool |
| | Tyson |
| | Suburban Propane |
| | Schreiber Foods |
| | Reddy Ice |
| | GAF Materials Corp |
| | Country Delite Farms |
| | Earthgrains Baking Co |
| | Constellation Energy |
| ***Commercial Facilities*** | |
| | Gaylord Opryland Resort and Convention Center |
| | Bridgestone Arena |
| | Opry Mills |
| | Nissan Stadium |
| | Music City Center |
| ***Dams*** | |
| | Percy Priest Dam |
| | Old Hickory Dam |
| | |
| ***Emergency Services*** | |
| | State Emergency Operations Center |
| | Nashville OEM/EOC |
| | Nashville ECC (9-1-1) |
| | Metro Police Dept |

| | |
|---|---|
| | Metro Fire Dept |
| | Metro Public Health Dept |
| | Metro Nashville Department of Transportation |
| | Metro Nashville Water Dept |
| ***Energy*** | |
| | TVA Davidson 500 |
| | Pin Hook Substation |
| | Nashville Gas Storage |
| | |
| ***Government Facilities*** | |
| | Tennessee Towers |
| | James K. Polk Building/State Govt |
| | Citizens Plaza Building/State Govt |
| | Cordell Hull Building/State Govt |
| | Andrew Jackson Building/State Govt |
| | Legislative Plaza, State Govt Admin offices |
| | Andrew Johnson Tower/State Govt |
| | Davy Crockett Tower |
| | |
| ***Information Technology*** | |
| | TN State IT Dept |
| | Metro Nashville/Davidson County IT Dept |
| | |
| ***National Monuments and Icons*** | |
| | Belmont University |
| | James Buchanan House |
| | Fisk University |
| | Customs House |
| | Davidson Co Courthouse |
| | Federal Reserve Bank of Atlanta |
| | The Hermitage |
| | Nashville Union Station and Train shed |
| | Ryman Auditorium |
| | TN State Capital |
| | Tennessee State Library and Archives |
| | Tennessee State University Historic District |
| | Old Natchez Trace |
| | The Parthenon |
| | |
| ***Postal and Shipping*** | |
| | Nashville Processing & Distribution Center |
| | Nashville Airport Mail Center |
| | |
| ***Public Health*** | |
| | All Major Hospitals |
| | Assisted Living Facilities |
| | |
| ***Transportation*** | |
| | Nashville Airport |

| | |
|---|---|
| | TDOT |
| | CSX |
| | TN Gas Pipeline |
| | Columbia Gulf Pipeline |
| ***Water*** | |
| | Nashville Water Service |

# APPENDIX D

# PRIMARY ROAD CLEARANCE LIST

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| A | 10TH AVE. NORTH | BROADWAY | CHARLOTTE AVE. | 0.4 | 0.8 |
| A | 10TH AVENUE NORTH | GARFIELD STREET | MONROE STREET | 0.3 | 0.6 |
| A | 10TH AVENUE NORTH | HARRISON STREET | JEFFERSON STREET | 0.4 | 0.8 |
| A | 11TH AVE. N/INDUSTRIAL BLVD | CHARLOTTE AVE. | DIVISION STREET | 0.9 | 1.8 |
| A | 11TH AVENUE NORTH | MONROE STREET | JEFFERSON STREET | 0.2 | 0.4 |
| A | 11TH AVENUE NORTH | JEFFERSON STREET | HARRISON STREET | 0.4 | 0.8 |
| A | 12TH AVE S/GRANNY WHITE | ASHWOOD AVENUE | BATTERY LANE | 2.9 | 5.8 |
| A | 12TH AVENUE SOUTH | 11TH INDUSTRIAL BLVD | ASHWOOD AVENUE | 1.6 | 3.2 |
| A | 12TH AVENUE SOUTH | ASHWOOD AVENUE | 11TH INDUSTRIAL BLVD | 1.6 | 3.2 |
| A | 15TH AVENUE SOUTH | WEDGEWOOD AVE. | EOC | 0.3 | 0.6 |
| A | 1ST AVE. NORTH | CHURCH STREET | PEABODY STREET | 0.6 | 1.2 |
| A | 20TH AVENUE NORTH | BROADWAY | CHARLOTTE AVE. | 0.5 | 1 |
| A | 21ST AVENUE NORTH | CHARLOTTE AVE | BROADWAY | 0.4 | 0.8 |
| A | 21ST AVENUE SOUTH | BROADWAY | BLAKEMORE AVENUE | 0.8 | 1.6 |
| A | 21ST AVENUE SOUTH | WEST END AVE. | BROADWAY | 0.9 | 1.8 |
| A | 21ST AVENUE SOUTH | BROADWAY | WEST END AVE. | 0.9 | 1.8 |
| A | 23RD AVENUE NORTH | CHARLOTTE AVE. | WEST END AVE. | 0.5 | 1 |
| A | 24TH AVENUE SOUTH | BLAKEMORE AVE. | GARLAND AVE. | 0.4 | 0.8 |
| A | 25TH AVENUE NORTH | WEST END AVENUE | CHARLOTTE AVE. | 0.7 | 1.4 |
| A | 25TH AVENUE SOUTH | WEST END AVE. | BLAKEMORE AVE. | 0.6 | 1.2 |
| A | 28TH AVENUE NORTH | CHARLOTTE AVE. | JEFFERSON STREET | 1 | 2 |
| A | 2ND AVE. NORTH | I-40 | UNION STREET | 1.2 | 2.4 |
| A | 2ND AVENUE NORTH | MADISON STREET | JAS. ROBERTSON PKWY | 0.8 | 1.6 |
| A | 3RD AVE. NORTH | LINDSLEY AVE. | DEADRICK STREET | 1.1 | 2.2 |
| A | 3RD AVENUE NORTH | JAS. ROBERTSON PKWY | COFFEE STREET | 1.5 | 3 |
| A | 4TH AVE. NORTH | CHARLOTTE AVE. | LAFAYETTE STREET | 1.1 | 2.2 |
| A | 4TH AVE. SOUTH | PEABODY STREET | BROADWAY | 0.4 | 0.8 |
| A | 4TH AVE. SOUTH | BROADWAY | MOORE AVE. | 1.9 | 3.8 |
| A | 4TH AVENUE NORTH | COFFEE STREET | 3RD AVE. NORTH | 1.4 | 1.6 |
| A | 5TH AVE. NORTH | LAFAYETTE STREET | CHARLOTTE AVE. | 1 | 2 |
| A | 5TH AVENUE NORTH | CHARLOTTE AVE | COFFEE STREET | 1.6 | 3.2 |
| A | 6TH AVE. NORTH | CHARLOTTE AVE. | COMMERCE STREET | 0.3 | 0.6 |
| A | 6TH AVE. NORTH | BROADWAY | LAFAYETTE STREET | 0.5 | 1 |
| A | 7TH AVE. NORTH | PEABODY STREET | CHARLOTTE AVE. | 0.8 | 1.6 |
| A | 8TH AVE. NORTH | CHARLOTTE AVE. | DIVISION STREET | 1.1 | 2.2 |
| A | 8TH AVENUE NORTH | I-265 | JAS. ROBERTSON PKWY | 1.2 | 2.4 |
| A | 8TH AVENUE NORTH | JAS. ROBERTSON PKWY | I-265 | 1.2 | 2.4 |
| A | 9TH AVE. NORTH | CHURCH STREET | BROADWAY | 0.25 | 0.5 |
| A | ALBION STREET | D. B. TODD BLVD. | 21ST AVE. NORTH | 0.2 | 0.4 |
| A | ALLIED DRIVE | NOLENSVILLE PIKE | TROUSDALE DRIVE | 0.7 | 1.4 |
| A | ANDERSON LANE | SMITH SPRINGS ROAD | BELL ROAD | 2.6 | 5.2 |
| A | ANNEX AVENUE | ROBERTSON AVE. | CHARTLOTTE AVE. | 1.8 | 3.6 |
| A | ANTIOCH PIKE | NOLENSVILLE ROAD | MC CALL STREET | 2.8 | 5.6 |
| A | ANTIOCH PIKE | MC CALL STREET | HARDING PLACE | 1.7 | 3.4 |
| A | ANTIOCH PIKE | HARDING PLACE | HAYWOOD LANE | 2.8 | 5.6 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| A | ANTIOCH PIKE | HAYWOOD LANE | HICKORY HOLLOW | 3.7 | 7.4 |
| A | ANTIOCH PIKE | HICKORY HOLLOW PKWY | MURFREESBORO ROAD | 2.5 | 5 |
| A | BELL ROAD | I-24 | RURAL HILL ROAD | 2.8 | 5.6 |
| A | BLACKMAN ROAD | TROUSDALE DRIVE | EDMONDSON PIKE | 1.6 | 3.2 |
| A | BLAKEMORE AVENUE | WEST END AVE. | 21ST AVE. SOUTH | 0.9 | 1.8 |
| A | BLAKEMORE AVENUE | 21ST AVE. SOUTH | WEST END AVE. | 0.9 | 1.8 |
| A | BRILEY PKWY | ELLINGTON PKWY | I-65 SOUTH | 15.4 | 30.8 |
| A | BRILEY PKWY | I-65 SOUTH | ELLINGTON PKWY | 15.4 | 30.8 |
| A | BROADMOOR DRIVE | GALLATIN ROAD | DICKERSON PIKE | 1.9 | 3.8 |
| A | BROADMOOR DRIVE | DICKERSON PIKE | BRILEY PKWY | 0.6 | 1.2 |
| A | BROADWAY | 1ST AVE. NORTH | 12TH AVE. NORTH | 0.8 | 1.6 |
| A | BROADWAY | 12TH AVE. NORTH | 1ST AVE. NORTH | 0.8 | 1.6 |
| A | BROADWAY | I-40 | 21ST AVENUE SOUTH | 0.5 | 1 |
| A | BROADWAY (WEST END AVE) | I-40 | 25TH AVE. SOUTH | 1.2 | 2.4 |
| A | BROADWAY (WEST END AVE) | 25TH AVE. SOUTH | I-40 | 1.2 | 2.4 |
| A | BROADWAY AVENUE | 21ST AVENUE SOUTH | WEST END AVENUE | 0.6 | 1.2 |
| A | BROOK HOLLOW ROAD | CHARLOTTE AVE. | HWY. 70 | 2.8 | 5.6 |
| A | CAMILLA CALDWELL LANE | COUNTY HOSPITAL ROAD | PARKING LOT | 0.4 | 0.8 |
| A | CENTENNIAL BLVD. | 44TH AVE. NORTH | BRILEY PKWY | 4.6 | 9.2 |
| A | CENTENNIAL BLVD. | BRILEY PKWY | 44TH AVE. NORTH | 4.6 | 9.2 |
| A | CHARLOTTE AVENUE | 3RD AVE. NORTH | 12TH AVE. NORTH | 2 | 4 |
| A | CHARLOTTE AVENUE | 12TH AVE. NORTH | 1ST AVE. NORTH | 1 | 2 |
| A | CHARLOTTE AVENUE | I-40 | WHITE BRIDGE ROAD | 3.7 | 8.3 |
| A | CHARLOTTE AVENUE | WHITE BRIDGE ROAD | I-40 | 3.7 | 8.3 |
| A | CHURCH ST./ELLISTON PL. | 25TH AVENUE NORTH | WEST END AVENUE | 1.3 | 2.6 |
| A | CHURCH STREET | I-40 | 1ST AVE. NORTH | 1 | 2 |
| A | CLARKSVILLE HWY | BUENA VISTA PK | CLAY STREET | 1.3 | 2.6 |
| A | CLARKSVILLE HWY | CLAY STREET | BUENA VISTA PK | 1.3 | 2.6 |
| A | COMMERCE STREET | 2ND AVE. NORTH | 10TH AVE. NORTH | 0.6 | 1.2 |
| A | COUNTY HOSPITAL ROAD | HYDES FERRY ROAD | BRILEY PKWY | 2.2 | 4.4 |
| A | COUNTY HOSPITAL ROAD | BRILEY PKWY | CAMILLA CALDWELL LANE | 1.1 | 2.2 |
| A | COUNTY HOSPITAL ROAD | CAMILLA CALDWELL LANE | HYDES FERRY ROAD | 1.1 | 2.2 |
| A | D. B. TODD BLVD | CLAY STREET | CHARLOTTE PIKE | 1.9 | 3.8 |
| A | D. B. TODD BLVD. | CHARLOTTE PIKE | CLAY STREET | 1.9 | 3.8 |
| A | DAVIDSON STREET | SOUTH 5TH STREET | NORTH 1ST STREET | 1.2 | 2.4 |
| A | DEADRICK STREET | 3RD AVE. NORTH | 6TH AVE. NORTH | 0.25 | 0.5 |
| A | DEADRICK STREET | 6TH AVE. NORTH | 3RD AVE. NORTH | 0.3 | 0.6 |
| A | DEMONBREUN STREET | 1ST AVE. NORTH | 12TH AVE. NORTH | 0.8 | 1.6 |
| A | DICKERSON PIKE | OLD HICKORY BLVD. | NORTH 1ST STREET | 12.6 | 25.2 |
| A | DIVISION /DEMONBREUN ST. | I-40 | 21ST AVE. SOUTH | 1.5 | 3 |
| A | DIVISION STREET | 11TH AVE. SOUTH | 8TH AVE. SOUTH | 0.3 | 0.6 |
| A | DONELSON PIKE | ELM HILL PIKE | MURFREESBORO ROAD | 0.7 | 1.4 |
| A | DONELSON PIKE | MURFREESBORO ROAD | LEBANON ROAD | 4.4 | 8.8 |
| A | DONELSON PIKE | LEBANON ROAD | ELM HILL PIKE | 1.4 | 2.8 |
| A | DR. WALTER S. DAVIS BLVD. | ED TEMPLE BLVD | 44TH AVE. NORTH | 1.3 | 2.6 |
| A | DR. WALTER S. DAVIS BLVD. | 44TH AVE. NORTH | ED TEMPLE BLVD | 1.3 | 2.6 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| A | DUE WEST AVENUE | GALLATIN PIKE | I-65 | 1.2 | 2.4 |
| A | ED TEMPLE BLVD | JEFFERSON STREET | CLARKSVILLE PIKE | 1.4 | 2.8 |
| A | ED TEMPLE BLVD | CLARKSVILLE PIKE | I-40 | 1.6 | 3.2 |
| A | EDGEHILL AVENUE | FRANKLIN PIKE | 21ST AVENUE SOUTH | 1.2 | 2.4 |
| A | EDGEHILL AVENUE | 21ST AVENUE SOUTH | FRANKLIN PIKE | 1.2 | 2.4 |
| A | EDMONDSON PIKE | NOLENSVILLE PIKE | HOLT ROAD | 3.8 | 7.6 |
| A | EDMONDSON PIKE | HOLT ROAD | NOLENSVILLE PIKE | 3.8 | 7.6 |
| A | ELLISTON PL/CHURCH ST. | WEST END AVE. | 25TH AVENUE NORTH | 1.3 | 2.6 |
| A | ELM HILL PIKE | MC GAVOCK PIKE | DONELSON PIKE | 0.9 | 1.8 |
| A | ELM HILL PIKE | DONELSON PIKE | BRILEY PKWY | 1.7 | 3.4 |
| A | ELM HILL PIKE | MURFREESBORO ROAD | BRILEY PKWY | 7.1 | 14.2 |
| A | ENSLEY BLVD./2ND AVE SOUTH | MOORE AVE. | BROADWAY | 1.9 | 3.8 |
| A | FERNBROOK DR | WINDMERE DR | HEARTLAND DR | 0.2 | 0.4 |
| A | FESSLERS LANE | LEBANON ROAD | POLK AVENUE | 2.8 | 5.6 |
| A | GALLATIN PIKE | BRILEY PKWY | BEN WEST BLDG. | 5.8 | 11.6 |
| A | GALLATIN PIKE | BEN WEST BLDG. | BRILEY PKWY | 5.8 | 11.6 |
| A | GARLAND AVENUE | 24TH AVE. SOUTH | 25TH AVE. SOUTH | 0.1 | 0.2 |
| A | GRANNY WHITE PIKE | OLD HICKORY BLVD | HARDING PLACE | 3.5 | 7 |
| A | GRAYCROFT AVENUE | OLD HICKORY BLVD. | DUE WEST | 1 | 2.1 |
| A | HARDING PLACE | HARDING ROAD | I-65 | 6.7 | 13.4 |
| A | HARDING PLACE | I-40 | I-65 | 6.2 | 12.4 |
| A | HARDING PLACE(DONELSON PK) | I-65 | I-40 | 6.2 | 12.4 |
| A | HAYWOOD LANE | NOLENSVILLE PIKE | ANTIOCH PIKE | 2.5 | 5 |
| A | HICKORY HOLLOW PKWY | ANTIOCH PIKE | MT. VIEW ROAD | 2 | 4 |
| A | HOGAN ROAD | MERCHANT DRIVE | REGENT DRIVE | 1.2 | 2.4 |
| A | JAMES ROBERTSON PKWY | INTERSTATE DR | CHARLOTTE AVE. | 1.1 | 2.8 |
| A | JAMES ROBERTSON PKWY | CHARLOTTE AVE. | INTERSTATE DR | 0.8 | 2.8 |
| A | JEFFERSON STREET | 11TH AVE. NORTH | 3RD AVE. NORTH | 0.8 | 1.6 |
| A | JEFFERSON STREET | 3RD AVE. NORTH | 11TH AVE. NORTH | 0.8 | 1.6 |
| A | JEFFERSON STREET | 28TH AVE. NORTH | I-40 AT 12TH AVE. NORTH | 1.3 | 2.6 |
| A | JEFFERSON STREET | I-40 AT 12TH AVE. NORTH | 28TH AVE. NORTH | 1.3 | 2.6 |
| A | LARKIN SPRINGS ROAD | NEELEYS BEND ROAD | STATE ROUTE 45 | 0.9 | 1.8 |
| A | LEBANON ROAD | BROADWAY | FESSLERS LANE | 3.3 | 6.6 |
| A | MC CALL STREET | NOLENSVILLE ROAD | ANTIOCH PIKE | 1.3 | 2.6 |
| A | MC GAVOCK PIKE | PENNINGTON BEND | ELM HILL PIKE | 6.4 | 12.8 |
| A | MEHARRY BLVD. | 21ST AVE. NORTH | D. B. TODD BLVD. | 0.2 | 0.4 |
| A | METRO CENTER BLVD | I-65 (Old I-265) | CLARKSVILLE PIKE | 1.9 | 3.8 |
| A | METRO CENTER BLVD. | CLARKSVILLE PIKE | I-65 (Old I-265) | 1.9 | 3.8 |
| A | MONROE STREET | 11TH AVE. NORTH | 8TH AVE. NORTH | 0.4 | 0.8 |
| A | MONROE STREET | 8TH AVE. NORTH | 11TH AVE. NORTH | 0.4 | 0.8 |
| A | NASHBORO BLVD. | MURFREESBORO ROAD | BELL ROAD | 2.7 | 5.4 |
| A | NEELEYS BEND ROAD | GALLATIN PIKE | LARKIN SPRINGS ROAD | 1.6 | 3.2 |
| A | NORTH 1ST STREET | DAVIDSON STREET | SPRING STREET | 2.7 | 5.4 |
| A | OLD HICKORY BLVD | I-40 | DICKERSON PIKE | 14.6 | 29.2 |
| A | OLD HICKORY BLVD | DICKERSON PIKE | HYDES FERRY PIKE | 14.1 | 28.2 |
| A | OLD HICKORY BLVD | I-65 SOUTH | HICKORY HOLLOW PKWY | 7.7 | 15.4 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| A | OLD HICKORY BLVD | HICKORY HOLLOW PKWY | I-65 SOUTH | 7.7 | 15.4 |
| A | OLD HICKORY BLVD | HWY. 100 | HWY. 70 | 1.1 | 2.2 |
| A | OLD HICKORY BLVD | HWY. 70 | HWY. 100 | 1.1 | 2.2 |
| A | OLD HICKORY BLVD | HWY. 100 | GRANNY WHITE PK | 5.6 | 11.2 |
| A | OLD HICKORY BLVD | I-65 | GRANNY WHITE PIKE | 1.9 | 3.8 |
| A | OLD HICKORY BLVD | DICKERSON PIKE | I-40 | 14.6 | 29.2 |
| A | PATTERSON STREET | 21ST AVE. NORTH | 23RD AVE. NORTH | 0.2 | 0.4 |
| A | PEABODY STREET | 2ND AVE. SOUTH | 4TH AVE. SOUTH | 0.15 | 0.3 |
| A | PLUS PARK BLVD. | MURFREESBORO ROAD | CUL-DE-SAC | 1.8 | 3.6 |
| A | POLICE ACADEMY ENTRANCE | TUCKER RD | ROAD TO FLIGHT OPERATIONS | 0.6 | 1.2 |
| A | POLK AVENUE | NOLENSVILLE ROAD | MURFREESBORO ROAD | 1.3 | 2.6 |
| A | ROBERTSON AVENUE | BRILEY PKWY | ANNEX AVE. | 1.2 | 2.4 |
| A | SHELBY STREET | SOUTH 11TH STREET | 1ST AVE SOUTH | 3 | 6 |
| A | SMITH SPRINGS ROAD | MURFREESBORO ROAD | ANDERSON ROAD | 3 | 6 |
| A | SOUTH 11TH STREET | WOODLAND STREET | SHELBY AVENUE | 0.7 | 1.4 |
| A | SOUTH 5TH STREET | MAIN STREET | DAVIDSON STREET | 1.8 | 3.6 |
| A | SOUTHLAKE DRIVE | BRILEY PKWY | ANTIOCH PIKE | 0.7 | 1.4 |
| A | SPENCE LANE | LEBANON ROAD | MURFREESBORO ROAD | 2.5 | 5 |
| A | SPRING STREET | 1ST AVE NO | MAIN STREET | 2 | 4 |
| A | STEWART FERRY PK/BELL RD | LEBANON PK | I-24 | 10.5 | 21 |
| A | THOMPSON LANE | MURFREESBORO ROAD | BRILEY PKWY | 3.6 | 7.2 |
| A | TRINITY LANE | GALLATIN ROAD | CLARKSVILLE HWY. | 5.6 | 11.2 |
| A | TRINITY LANE | CLARKSVILLE HWY. | GALLATIN ROAD | 5.6 | 11.2 |
| A | TROUSDALE DRIVE | VERITAS STREET | BROADWELL DRIVE | 3.4 | 6.8 |
| A | TUCKER ROAD | BUENA VISTA PIKE | KINGS LANE | 1.1 | 2.2 |
| A | UNION STREET | 2ND AVE | CHURCH STREET | 0.6 | 1.2 |
| A | UNION STREET | UNION ST | CHURCH ST | 0.1 | 0.1 |
| A | WALLACE ROAD | NOLENSVILLE PIKE | LINBAR DRIVE | 1.6 | 3.2 |
| A | WEDGEWOOD AVENUE | 21ST AVE. SOUTH | I-65 | 3.2 | 6.4 |
| A | WOODLAND STREET | UNION STREET | SOUTH 14TH STREET | 4.1 | 8.2 |
| B | 15TH AVENUE NORTH | BROADWAY | CHARLOTTE AVENUE | 0.4 | 0.8 |
| B | 18TH AVENUE NORTH | CHARLOTTE AVENUE | BROADWAY | 0.5 | 1 |
| B | 18TH AVENUE SOUTH | WEDGEWOOD AVENUE | DIVISION STREET | 1 | 2 |
| B | 18TH AVENUE SOUTH | MAGNOLIA BLVD | PORTLAND AVENUE | 0.2 | 0.4 |
| B | 19TH AVENUE NORTH | BROADWAY | CHARLOTTE AVENUE | 0.5 | 1 |
| B | 40TH AVENUE NORTH | CHARLOTTE AVENUE | CENTENNIAL BLVD | 1.8 | 3.6 |
| B | 46$^{TH}$ AVENUE NORTH | CHARLOTTE AVENUE | MURPHY ROAD | 0.8 | 1.6 |
| B | 51ST AVENUE NORTH | CHARLOTTE AVENUE | CENTENNIAL BLVD | 1.5 | 6 |
| B | ABBOTT MARTIN ROAD | HILLSBORO ROAD | LYNNWOOD BLVD | 1.9 | 3.8 |
| B | ACORN DRIVE | ELM HILL PIKE | MASSMAN DRIVE | 0.3 | 0.6 |
| B | ALHAMBRA CIRCLE | CAPITOL VIEW DRIVE | DICKERSON PIKE | 0.1 | 0.2 |
| B | ALLEN ROAD | DONELSON PIKE | LAKELAND DRIVE | 1 | 2 |
| B | AMERICAN ROAD | ANNEX AVENUE | CHARLOTTE AVENUE | 0.9 | 1.8 |
| B | AMILIE DRIVE | OLD HICKORY BLVD | MCMURRAY DRIVE | 0.7 | 1.4 |
| B | ANDERSON LANE | RIO VISTA DRIVE | GALLATIN PIKE | 1.4 | 2.8 |
| B | ANDREW JACKSON PKWY | STATE ROUTE 45 | LEBANON PIKE | 2.5 | 5 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| B | ANDREW JACKSON PKWY | LEBANON PIKE | STATE ROUTE 45 | 2.5 | 5 |
| B | APACHE TRAIL | HAYWOOD LANE | BART DRIVE | 1.3 | 2.6 |
| B | APOLLO DRIVE | RICHARDS ROAD | UNA-ANTIOCH PIKE | 0.5 | 1 |
| B | ARLINGTON AVENUE | ELM HILL PIKE | HILL AVENUE | 0.5 | 1 |
| B | ATHENS WAY | GREAT CIRCLE DRIVE | DOMINICAN WAY | 1.5 | 3 |
| B | ATHENS WAY | DOMINICAN WAY | GREAT CIRCLE DRIVE | 1.5 | 3 |
| B | BARNES ROAD | NOLENSVILLE PIKE | OLD HICKORY BLVD | 2.2 | 4.4 |
| B | BART DRIVE | APACHE TRAIL | COLERIDGE DRIVE | 1 | 2 |
| B | BELL ROAD | NEW HOPE ROAD | OLD HICKORY BLVD | 0.7 | 1.4 |
| B | BELL ROAD | STEWART FERRY PIKE | DAM | 0.4 | 0.8 |
| B | BELL ROAD | DAM | OLD HICKORY BLVD | 1.6 | 3.2 |
| B | BELMONT BLVD | PORTLAND AVENUE | WOODMONT BLVD | 1.5 | 3 |
| B | BEN ALLEN ROAD | DICKERSON PIKE | HART LANE | 1.3 | 2.6 |
| B | BENTON AVE | BRANSFORD AVE | DEAD END | 0.3 | 0.6 |
| B | BENTON AVE | DEAD END | BRANSFORD AVE | 0.3 | 0.6 |
| B | BERMUDA DRIVE | BROOKVIEW DRIVE | DELROSE DRIVE | 0.4 | 0.8 |
| B | BLUE HOLE ROAD | PETTUS ROAD | ANTIOCH PIKE | 2.4 | 4.8 |
| B | BOWLING AVENUE | WEST END AVENUE | WOODMONT BLVD | 1.3 | 2.6 |
| B | BRANSFORD AVE | CRAIGHEAD AVE | WEDGEWOOD AVE | 0.6 | 1.2 |
| B | BREWER DRIVE | NOLENSVILLE PIKE | EDMONDSON PIKE | 1.7 | 3.4 |
| B | BRICK CHURCH PIKE | TRINITY LANE | CITY LIMITS | 11.2 | 22.4 |
| B | BROOKVIEW DRIVE | CRESTLINE DRIVE | CUL-DE-SAC | 0.5 | 1 |
| B | BUCHANAN STREET | 9TH AVENUE NORTH | 28TH AVENUE NORTH | 1.3 | 2.6 |
| B | BUFFALO ROAD | CHARLOTTE PIKE | OLD CHARLOTTE PIKE | 2.3 | 4.6 |
| B | BULL RUN ROAD | OLD HICKORY BLVD | ASHLAND CITY HWY. | 5.1 | 10.2 |
| B | BURKETT ROAD | OLD HICKORY BLVD | NOLENSVILLE PIKE | 4.5 | 9 |
| B | CAHAL AVENUE | PORTER ROAD | GALLATIN PIKE | 1 | 2 |
| B | CAMPBELL ROAD | BRICK CHURCH PIKE | DICKERSON PIKE | 3.6 | 7.2 |
| B | CANE RIDGE ROAD | OLD HICKORY BLVD | BELL ROAD | 3.6 | 7.2 |
| B | CAPITOL VIEW DRIVE | JONES AVENUE | ALHAMBRA CIRCLE | 0.3 | 0.6 |
| B | CATO ROAD | HYDES FERRY PIKE | DEAD END | 1.9 | 3.8 |
| B | CENTRAL PIKE | EARHART ROAD | LEBANON PIKE | 3.9 | 7.8 |
| B | CHANDLER ROAD | DODSON CHAPEL ROAD | STATE ROUTE 45 | 0.3 | 0.6 |
| B | CHESTNUT STREET | 8TH AVE SOUTH | WHARF AVE | 1 | 2 |
| B | CHET ATKINS PLACE | 20TH AVENUE SOUTH | MUSIC SQUARE EAST | 0.3 | 0.6 |
| B | CLAY LICK ROAD | UNION HILL ROAD | LICKTON PIKE | 3.3 | 6.6 |
| B | CLEVELAND AVENUE | McFERRIN AVENUE | TO DICKERSON PIKE | 1.1 | 2.2 |
| B | CLEVELAND AVENUE | DICKERSON PIKE | McFERRIN AVENUE | 1.1 | 2.2 |
| B | CLIFTON AVENUE | 20TH AVENUE NORTH | 40TH AVENUE NORTH | 1.8 | 3.6 |
| B | CLOVERDALE DRIVE | MCGAVOCK PIKE | WOODBERRY DRIVE | 0.4 | 0.8 |
| B | CLOVERWOOD DRIVE | WAXHAW DRIVE | HICKORY BEND DRIVE | 0.1 | 0.2 |
| B | COLEMONT DRIVE | COLERIDGE DRIVE | TUSCULUM ROAD | 0.2 | 0.4 |
| B | COLERIDGE DRIVE | BART DRIVE | COLEMONT DRIVE | 0.3 | 0.6 |
| B | COTTAGE HILL DRIVE | UNA-ANTIOCH PIKE | CUL-DE-SAC | 0.2 | 0.4 |
| B | COTTAGE LANE | CRESTLINE DRIVE | LEBANON PIKE | 0.4 | 0.8 |
| B | CRAIGHEAD STREET | I-65 | NOLENSVILLE PK | 2.3 | 4.6 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| B | CRESTLINE DRIVE | DELROSE DRIVE | BERMUDA DRIVE | 0.3 | 0.6 |
| B | CROCKER SPRINGS ROAD | LICKTON PIKE | UNION HILL ROAD | 2.3 | 4.6 |
| B | CULBERSON ROAD | OLD HICKORY BLVD | NOLENSVILLE PIKE | 1.4 | 2.8 |
| B | CURRY ROAD | THOMPSON LANE | 2ND INT OF MCGAVOCK PIKE | 2.1 | 4.2 |
| B | DAVIDSON ROAD/DRIVE | WEST END AVENUE | CHARLOTTE AVENUE | 3.1 | 6.2 |
| B | DAVIDSON STREET | SOUTH 5TH STREET | SHELBY PARK | 1.7 | 3.4 |
| B | DAVIDSON STREET | SHELBY PARK | SOUTH 5TH STREET | 1.7 | 3.4 |
| B | DELROSE DRIVE | BERMUDA DRIVE | CRESTLINE DRIVE | 0.5 | 1 |
| B | DENNYWOOD DRIVE | SELMA DRIVE | FAIRWAY DRIVE | 0.8 | 1.6 |
| B | DISPAYNE DRIVE | LEBANON PIKE | JENRY DRIVE | 0.2 | 0.4 |
| B | DODSON CHAPEL ROAD | BELL ROAD | CHANDLER ROAD | 1.2 | 2.4 |
| B | DOMINICAN WAY | I-265 | 9TH AVENUE NORTH | 0.6 | 1.2 |
| B | DOMINICAN WAY | 9TH AVENUE NORTH | I-265 | 0.6 | 1.2 |
| B | DONELSON HILLS DRIVE | LEBANON PIKE | DEARBORN DRIVE | 0.5 | 1 |
| B | DONEY MEADE DRIVE | JENRY DRIVE | LEBANON PIKE | 0.2 | 0.4 |
| B | DOUGLAS AVENUE | GALLATIN PIKE | DICKERSON PIKE | 1.6 | 3.2 |
| B | DRY CREEK ROAD | OLD DICKERSON ROAD | BRICK CHURCH PIKE | 3.1 | 6.2 |
| B | EARHART ROAD | STEWARTS FERRY PIKE | CENTRAL PIKE | 2.7 | 5.4 |
| B | EAST MARTHONA ROAD | VANTREASE ROAD | OLD HICKORY BLVD | 0.5 | 1 |
| B | EASTLAND AVENUE | GALLATIN PIKE | RIVERSIDE DRIVE | 1.3 | 2.6 |
| B | EATONS CREEK ROAD | HYDES FERRY PIKE | TO : CLARKSVILLE HWY. | 6.6 | 13.2 |
| B | EDGE-O-LAKE DRIVE | MURFREESBORO ROAD | RURAL HILL ROAD | 0.9 | 1.8 |
| B | ELM HILL PIKE | DONELSON PIKE | BELL ROAD | 2.3 | 4.6 |
| B | ELM HILL PIKE | BELL ROAD | DONELSON PIKE | 2.3 | 4.6 |
| B | ESTES ROAD | HARDING PLACE | WOODLAWN DRIVE | 2.2 | 4.4 |
| B | FAIRWAY DRIVE | DENNYWOOD DRIVE | LEBANON PIKE | 0.7 | 1.4 |
| B | FIRE TOWER ROAD | BUFFALO ROAD | DEAD END | 0.6 | 1.2 |
| B | FOREST VIEW | MURFREESBORO ROAD | KIRKWOOD DRIVE | 1 | 2 |
| B | FOSTER AVENUE | THOMPSON LANE | MURFREESBORO PK | 1.7 | 3.4 |
| B | FOSTER AVENUE | MURFREESBORO PK | GLENROSE AVE | 1.7 | 3.4 |
| B | FRANKLIN LIMESTONE ROAD | MURFREESBORO ROAD | ANTIOCH PIKE | 2.7 | 5.4 |
| B | FRENCH LANDING | DOMINICAN WAY | ATHENS WAY | 0.6 | 1.2 |
| B | FRENCH LANDING | ATHENS WAY | DOMINICAN WAY | 0.6 | 1.2 |
| B | FRIST BLVD | STATE ROUTE 45 | HOSPITAL | 0.4 | 0.8 |
| B | FRIST BLVD | HOSPITAL | STATE ROUTE 45 | 0.4 | 0.8 |
| B | GARFIELD STREET | 3RD AVENUE NORTH | 9TH AVENUE NORTH | 0.7 | 1.4 |
| B | GLASTONBURY DRIVE | BRILEY PARKWAY | CUL-DE-SAC | 0.3 | 0.6 |
| B | GLENGARY DRIVE | MURFREESBORO ROAD | CURRY ROAD | 0.6 | 1.2 |
| B | GLENROSE AVE | THOMPSON LN | NOLENSVILLE PK | 2.1 | 4.2 |
| B | GOODBAR DRIVE | VULTEE BLVD | KIPLING DRIVE | 0.4 | 0.8 |
| B | GOWER ROAD | CHARLOTTE PIKE | RIVER ROAD | 0.9 | 1.8 |
| B | GRANDVIEW AVE | THOMPSON LANE | MELROSE AVE | 0.7 | 1.4 |
| B | GRAYS POINT ROAD | EATONS CREEK ROAD | MARROWBONE LAKE ROAD | 1.6 | 3.2 |
| B | GRAYS POINT ROAD | MARROWBONE LAKE ROAD | LITTLE MARROWBONE ROAD | 1.5 | 3 |
| B | GREAT CIRCLE DRIVE | METRO CENTER BLVD | DEAD END | 2 | 4 |
| B | GREAT CIRCLE DRIVE | DEAD END | METRO CENTER BLVD | 2 | 4 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| B | GREENFIELD AVENUE | KENNEDY AVENUE | GALLATIN PIKE | 0.5 | 1 |
| B | GREENFIELD AVENUE | GALLATIN PIKE | KENNEDY AVENUE | 0.5 | 1 |
| B | GREENWOOD AVENUE | GALLATIN PIKE | RIVERSIDE DRIVE | 1.1 | 2.2 |
| B | GRIFFITH ROAD | LEWIS ROAD | POPLAR CREEK ROAD | 1.4 | 2.8 |
| B | HAMILTON AVE | RAINS AVE | 8TH AVE SOUTH | 0.8 | 1.6 |
| B | HAMILTON CHURCH ROAD | HOBSON PIKE | MURFREESBORO ROAD | 1.3 | 2.6 |
| B | HART LANE | DICKERSON PIKE | GALLATIN PIKE | 1.7 | 3.4 |
| B | HART LANE | FROM GALLATIN PIKE | DICKERSON PIKE | 1.7 | 3.4 |
| B | HAYES STREET | 21ST AVENUE NORTH | 15TH AVENUE NORTH | 0.7 | 1.4 |
| B | HESTER BEASLEY ROAD | HWY 100 | HWY 100 | 3.1 | 6.2 |
| B | HICKORY BEND DRIVE | CLOVERWOOD DRIVE | STEWARTS FERRY PIKE | 0.1 | 0.2 |
| B | HILL ROAD | FRANKLIN PIKE CIRCLE | OLD HICKORY BLVD | 1.9 | 3.8 |
| B | HILLWOOD BLVD | CHARLOTTE AVENUE | WEST END AVENUE | 2.2 | 4.4 |
| B | HOBBS ROAD | LYNNWOOD BLVD | HILLSBORO ROAD | 1.5 | 3 |
| B | JACKSONIAN DRIVE | LEBANON PIKE | PLANTATION DRIVE | 0.8 | 1.6 |
| B | JENRY DRIVE | DESPAYNE DRIVE | DOWNEY MEADE DRIVE | 0.8 | 1.6 |
| B | JOCELYN HOLLOW ROAD | DAVIDSON ROAD | CUL-DA-SAC | 3.5 | 7 |
| B | JONES AVENUE | DOUGLAS AVENUE | CAPITOL VIEW DRIVE | 1.8 | 3.6 |
| B | KAREN DRIVE | PATRICIA DRIVE | BRILEY PKWY | 0.3 | 0.6 |
| B | KINHAWK DRIVE | NOLENSVILLE PIKE | DEAD END | 0.6 | 1.2 |
| B | KIRKWOOD AVENUE | BELMONT BLVD | 8TH AVENUE SOUTH | 1.1 | 2.2 |
| B | LAKELAND DRIVE | MCGAVOCK PIKE | WAXHAW DRIVE | 2.4 | 4.8 |
| B | LEWIS ROAD | HWY 100 | McCRORY LANE | 1.2 | 2.4 |
| B | LICKTON PIKE/DRY CREEK RD | LOWER WALKER | OLD HICKORY BLVD | 6.6 | 13.2 |
| B | LITTLE MARROWBONE ROAD | GRAYS POINT ROAD | EATONS CREEK ROAD | 1.9 | 3.8 |
| B | MAGNOLIA BLVD | 21ST AVENUE NORTH | WEDGEWOOD AVENUE | 0.4 | 0.8 |
| B | MAGNOLIA BLVD | WEDGEWOOD AVENUE | 21ST AVENUE NORTH | 0.4 | 0.8 |
| B | MAINSTREAM DRIVE | METRO CENTER BLVD | GREAT CIRCLE DRIVE | 1 | 2 |
| B | MAINSTREAM DRIVE | GREAT CIRCLE DRIVE | METRO CENTER BLVD | 1 | 2 |
| B | MAPLECREST DRIVE | MCGAVOCK PIKE | DENNYWOOD DRIVE | 0.6 | 1.2 |
| B | MARROWBONE LAKE ROAD | GRAYS POINT ROAD | DEAD END | 1.3 | 2.6 |
| B | MARTIN STREET | CHESTNUT STREET | WEDGEWOOD AVE | 0.7 | 1.4 |
| B | MASSMAN DRIVE | KIPLING DRIVE | PATRICIA DRIVE | 0.4 | 0.8 |
| B | MASSMAN DRIVE | ACORN DRIVE | PATRICIA DRIVE | 1.9 | 3.8 |
| B | McCRORY LANE | CHARLOTTE PIKE | HWY 100 | 5.5 | 11 |
| B | McFERRIN AVENUE | MAIN STREET | ELLINGTON PKWY | 0.8 | 1.6 |
| B | McFERRIN/GRANADA | ELLINGTON PKWY | WEST McKENNIE | 0.3 | 0.6 |
| B | MCGAVOCK PIKE | HARDING PIKE | MURFREESBORO ROAD | 1.7 | 3.4 |
| B | MCGAVOCK PIKE | GALLATIN PIKE | STRATFORD AVENUE | 1.3 | 2.6 |
| B | MCMURRAY DRIVE | EDMONDSON PIKE | NOLENSVILLE PIKE | 1.9 | 3.8 |
| B | MERIDIAN STREET | TRINITY LANE | CLEVELAND STREET | 1.3 | 2.6 |
| B | MORGAN ROAD | UNION HILL ROAD | WHITES CREEK PIKE | 2.1 | 4.2 |
| B | MT VIEW ROAD | HICKORY HOLLOW PKWY | DEAD END | 6 | 12 |
| B | MURPHY ROAD | 46TH AVENUE NORTH | WEST END | 1.3 | 2.6 |
| B | MUSIC SQUARE WEST | DIVISION STREET | WEDGEWOOD AVENUE | 1.1 | 2.2 |
| B | MUSIC VALLEY DRIVE | MCGAVOCK PIKE | PENNINGTON BEND ROAD | 2.1 | 4.2 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| B | MYATT DRIVE | GALLATIN PIKE | STATE ROUTE 45 | 2.4 | 4.8 |
| B | MYATT DRIVE | FROM STATE ROUTE 45 | GALLATIN PIKE | 2.4 | 4.8 |
| B | NAPOLEON STREET | NOLENSVILLE PK | DUNN STREET | 0.3 | 0.6 |
| B | NEW HOPE ROAD | OLD LEBANON DIRT ROAD | CENTRAL PIKE | 1.3 | 2.6 |
| B | NEW HOPE ROAD | CENTRAL PIKE | ROXBOROUGH DRIVE | 0.5 | 1 |
| B | NEW HOPE ROAD | ROXBOROUGH DRIVE | STEWARTS FERRY PIKE | 1.6 | 3.2 |
| B | NORTHCREST DRIVE | WHISPERING HILLS | NOLENSVILLE PIKE | 0.6 | 1.2 |
| B | OCALA DRIVE | NOLENSVILLE PIKE | CUL-DE-SAC | 0.6 | 1.2 |
| B | OLD CHARLOTTE PIKE | CHARLOTTE PIKE | CHARLOTTE PIKE | 7.4 | 14.8 |
| B | OLD DICKERSON ROAD | DICKERSON PIKE | DRY CREEK ROAD | 1.3 | 2.6 |
| B | OLD HARDING PIKE | HWY 100 | HWY 70 | 3.1 | 6.2 |
| B | OLD HICKORY BLVD | BELL ROAD | I-40 | 0.6 | 1.2 |
| B | OLD HICKORY BLVD | GALLATIN PIKE | RIO VISTA DRIVE | 1.8 | 3.6 |
| B | OLD HICKORY BLVD | BELL ROAD | I-40 | 7.2 | 14.4 |
| B | OLD LEBANON DIRT ROAD | ANDREW JACKSON PKWY | COUNTY LINE | 2 | 4 |
| B | ORDWAY PLACE | NORTH 20TH | GALLATIN PIKE | 0.9 | 1.8 |
| B | PATRICIA DRIVE | THOMPSON PLACE | KAREN DRIVE | 0.9 | 1.8 |
| B | PECAN VALLEY ROAD | ASHLAND CITY HWY | OLD HICKORY BLVD | 2.3 | 4.6 |
| B | PENNINGTON BEND | MCGAVOCK PIKE | MCGAVOCK PIKE | 3.8 | 7.6 |
| B | PETTUS ROAD | NOLENSVILLE PIKE | 2ND OLD HICKORY BLVD | 3.7 | 7.4 |
| B | PLANTATION DRIVE | BONNACREEK DRIVE | STATE ROUTE 45 | 1.2 | 2.4 |
| B | POPLAR CREEK ROAD | OLD HARDING PIKE | SOUTH HARPETH ROAD | 5.2 | 10.4 |
| B | PORTER ROAD | EASTLAND AVENUE | BARCLAY DRIVE | 1.5 | 3 |
| B | POWELL AVE | THOMPSON LANE | SIDCO DRIVE | 1.3 | 2.6 |
| B | PRIMROSE AVENUE | BELMONT BLVD | OAKLAND AVENUE | 0.1 | 0.2 |
| B | PRIMROSE AVENUE | OAKLAND AVENUE | HAZELWOOD DRIVE | 0.3 | 0.6 |
| B | PRIMROSE CIRCLE | HAZELWOOD DRIVE | PRIMROSE AVENUE | 0.2 | 0.4 |
| B | RAINS AVE | WEDGEWOOD AVE | 4TH AVE SOUTH | 0.5 | 1 |
| B | REVERE PLACE | FAIRWAY DRIVE | DELROSE DRIVE | 0.7 | 1.4 |
| B | RICHARDS ROAD | ANTIOCH PIKE | UNA-ANTIOCH PIKE | 1.3 | 2.6 |
| B | RIO VISTA DRIVE | STATE ROUTE 45(OHB) | ANDERSON LANE | 0.7 | 1.4 |
| B | RIVER ROAD | CHARLOTTE PIKE | COUNTY LINE | 8.6 | 17.2 |
| B | RIVER ROAD PIKE | RIVER ROAD | OLD CHARLOTTE PIKE | 1 | 2 |
| B | RIVERSIDE DRIVE | MCGAVOCK PIKE | BARCLAY DRIVE | 2.7 | 5.4 |
| B | RIVERSIDE DRIVE | BARCLAY DRIVE | MCGAVOCK PIKE | 2.7 | 5.4 |
| B | RIVERSIDE DRIVE | MCGAVOCK PIKE | KENNEDY AVENUE | 0.4 | 0.8 |
| B | ROSEDALE AVE | NOLENSVILLE PK | BRANSFORD AVE | 0.8 | 1.6 |
| B | ROXBOROUGH DRIVE | NEW HOPE ROAD | DEAD END | 0.5 | 1 |
| B | RURAL HILL ROAD | EDGE-O-LAKE | SMITH SPRINGS ROAD | 1.1 | 2.2 |
| B | SAUNDERS AVENUE | HART LANE | VANTREASE ROAD | 3 | 6 |
| B | SAWYER BROWN ROAD | CHARLOTTE PIKE | HWY 70 SOUTH | 2.8 | 5.6 |
| B | SHAW ROAD | LICKTON PIKE | BRICK CHURCH PIKE | 0.9 | 1.8 |
| B | SHUTE LANE | STATE ROUTE 45 | LEBANON PIKE | 2.3 | 4.6 |
| B | SIDCO DRIVE | HARDING PLACE | THOMPSON LANE | 2.1 | 4.2 |
| B | SOUTH & NORTH 14TH STREET | SHELBY STREET | EASTLAND AVENUE | 0.9 | 1.8 |
| B | SOUTH & NORTH 16TH STREET | SHELBY STREET | EASTLAWN AVENUE | 0.9 | 1.8 |

**Metro Nashville and Davidson County - Debris Management Plan**

| Priority | Primary Road | From | To | Route Miles | Lane Miles |
|---|---|---|---|---|---|
| B | SOUTH 10TH STREET | SHELBY STREET | MAIN STREET | 0.9 | 1.8 |
| B | SOUTH 10TH STREET | MAIN STREET | SHELBY STREET | 0.9 | 1.8 |
| B | SOUTH 7TH STREET | DAVIDSON STREET | SHELBY STREET | 0.4 | 0.8 |
| B | SOUTH HARPETH ROAD | POPLAR CREEK ROAD | HWY 100 | 2.1 | 4.2 |
| B | SOUTH STREET | 8TH AVENUE SOUTH | MUSIC SQUARE EAST | 0.9 | 1.8 |
| B | SOUTH STREET | MUSIC SQUARE EAST | 8TH AVENUE SOUTH | 0.9 | 1.8 |
| B | STEWARTS FERRY PIKE | NEW HOPE ROAD | EARHART ROAD | 1.1 | 2.2 |
| B | THOMPSON PLACE | MURFREESBORO ROAD | GOODBAR DRIVE | 0.6 | 1.2 |
| B | TULIP GROVE ROAD | LEBANON PIKE | CENTRAL PIKE | 3.1 | 6.2 |
| B | TUSCULUM ROAD | BLUE HOLE ROAD | NOLENSVILLE PIKE | 2.6 | 5.2 |
| B | TWIN LAWN DRIVE | ALLEN ROAD | KENT DRIVE | 0.9 | 1.8 |
| B | UNION HILL ROAD | WHITES CREEK PIKE | BRICK CHURCH PIKE | 7.2 | 14.4 |
| B | VANTAGE WAY | METRO CENTER BLVD | GREAT CIRCLE ROAD | 1 | 2 |
| B | VANTAGE WAY | GREAT CIRCLE ROAD | METRO CENTER BLVD | 1 | 2 |
| B | VULTEE BLVD | BRILEY PKWY | MURFREESBORO ROAD | 0.7 | 1.4 |
| B | VULTEE BLVD | MURFREESBORO ROAD | BRILEY PKWY | 0.7 | 1.4 |
| B | WAXHAW DRIVE | LAKE LAND DRIVE | CLOVERLAND DRIVE | 0.1 | 0.2 |
| B | WEDGEWOOD AVE/FAIRGROUNDS | NOLENSVILLE PK | I-65 NOLENSVILLE PK | 1.9 | 3.8 |
| B | WEST EASTLAND AVENUE | GALLATIN PIKE | McFERRIN AVENUE | 0.4 | 0.8 |
| B | WEST LAWN/SLOAN/CHEROKEE | MURPHY ROAD | WEST END | 0.8 | 1.6 |
| B | WHISPERING HILLS | EDMONDSON PIKE | NORTHCREST DRIVE | 0.7 | 1.4 |
| B | WILKERSON ROAD | GREENBRIAR ROAD | MORGAN ROAD | 1.8 | 3.6 |
| B | WOODBERRY DRIVE | DEARWOOD ROAD | MCGAVOCK PIKE | 0.7 | 1.4 |
| B | WOODLAWN DRIVE | HILLSBORO PIKE | WEST END AVENUE | 2.4 | 4.8 |

All Interstates and State Highways will be coordinated with TDOT

# APPENDIX E

# TEMPORARY DEBRIS STAGING AND REDUCTION SITES

**Suggested TDSR's with 5 acres or greater available space for use in each Debris Control Zone**

| Site Name | Type | Location | Debris Zone |
|---|---|---|---|
| McFerrin | Park | 301 Berry Street | 1 |
| Oakwood | Park | Oakwood and Bethwood | 1 |
| Cleveland | Park | 925 North 6th Street | 1 |
| Madison | Park | 510 N. Dupont Avenue | 2 |
| E. N. Peeler | Park | 2043 Neeley's Bend Road | 2 |
| Shelby | Park | Shelby Avenue at S. 20th Street | 2 |
| NDOT Anderson Lane Center | Other | 939 Anderson Ln. | 2 |
| Heartland Park | Park | 3135 Heartland Drive | 3 |
| Two Rivers | Park | 3150 McGavock Pike | 3 |
| Hermitage | Park | 3720 James Kay Lane | 4 |
| Hamilton Creek | Park | 2901 Bell Road | 4 |
| NDOT Smith Springs Facility | Other | Smith Spring Rd | 4 |
| Cane Ridge | Park | 419 Battle Road | 5 |
| Ezell Road Park | Park | 5135 Harding Place | 5 |
| Paragon Mills | Park | 465 Benita Drive | 5 |
| Seven Oaks | Park | School Lane and McGavock | 5 |
| Fort Negley | Park | 534 Chestnut Street | 6 |
| Grassmere Wildlife | Park | 3777 Nolensville Road | 6 |
| Seven Mile Creek | Park | Edmondson Pike at Oakley | 6 |
| Green Hills | Park | 1200 Lone Oak Road | 7 |
| E. S. Rose | Park | 1000 Edgehill Avenue | 7 |
| Percy Warner | Park | 2500 Old Hickory Blvd. | 8 |
| Parmer | Park | 578 Leake Avenue | 8 |
| Elmington | Park | 3531 West End Avenue | 8 |
| Centennial | Park | 2500 West End Avenue | 9 |
| Harpeth River | Park | 7820 Coley Davis Road | 9 |
| McCabe | Park | Murphy Road at 46th Avenue N. | 9 |
| Bicentennial | Park | 170 1st Avenue North | 10 |
| Charlotte | Park | 6031 Deal Avenue | 10 |
| Ted Rhodes | Park | 1901 Ed Temple Blvd. | 10 |
| West | Park | 6105 Morrow Road | 10 |
| Alvin G. Beaman | Park | 4111 Little Marrowbone Road | 11 |
| Richard Hartman | Park | 2801 Tucker Road | 11 |
| Joelton | Park | 021 Joelton Com. Ctr. Rd. | 11 |
| Whites Creek | Park | 7277 Old Hickory Blvd. | 11 |
| Cedar Hill | Park | 860 W. Old Hickory Blvd. | 12 |
| Parkwood | Park | 3220 Vailview Drive | 12 |
| Willow Creek | Park | 1821 Westchester Drive | 12 |

# APPENDIX F

# DEBRIS CONTRACTOR OVERSIGHT TEAM STANDARD OPERATING GUIDELINES

# DEBRIS CONTRACTOR OVERSIGHT TEAM STANDARD OPERATING GUIDELINES

## DEBRIS REMOVAL AND DISPOSAL OPERATIONS

### General

The Debris Manager (DM) and Debris Management Center (DMC) staff will coordinate debris removal and disposal operations for all portions of the City. Phase II operations involve the removal and disposal of curbside debris by Metro Nashville and Private Contractors. While City Agencies will provide oversight of their own removal operations, contractor operations will be overseen by the Debris Contractor Oversight Team (DCOT).

Mixed debris will be collected and hauled from assigned Debris Control Zones to designated TDSR sites or to designated landfill locations. Clean woody debris will be hauled to the nearest designated vegetative TDSR site for eventual burning or grinding.

Load tickets will be used to track all debris that is loaded, hauled, and disposed of. Load tickets are to be used by both in-house and contracted haulers and will serve as supporting documentation for contractor payment as well as for requests for Federal assistance or reimbursement.

Franchise garbage contractors will continue to pick up refuse in accordance with current procedures, routes, and removal schedules. They will haul disaster debris as requested by the contracting authority.

## DEBRIS CONTRACTOR OVERSIGHT TEAM

### General

The DCOT supervisor and team members will be detailed from NDOT, Parks and Recreation, and other Metro Nashville Departments. The DCOT team may also be supplemented with contracted inspectors and other personnel as needed. Figure 1 shows the organization of the DCOT within the DMC.

The DCOT team supervisor will be located at the Debris Management Center (DMC) and will provide overall supervision of the two field-based monitoring elements as described. The DMC is located at 750 South 5$^{th}$ Street. Specific DCOT Supervisor responsibilities include the following:

1. Planning, TDSR Site inspection, quality control, and other contractor oversight functions.

2. Receiving and reviewing all debris load tickets that have been verified by a Disposal Site Monitor (see description).

3. Making recommendations to the Debris Manager regarding distribution of in-house and contractor work assignments and priorities.

4. Reporting on progress and preparation of status briefings.

5. Providing input to the DMC PIO on debris removal and disposal activities and pickup schedules.

The DCOT Supervisor will oversee the activities of two types of field-based inspection teams. The functions and responsibilities of the field inspectors are described in the following sections.

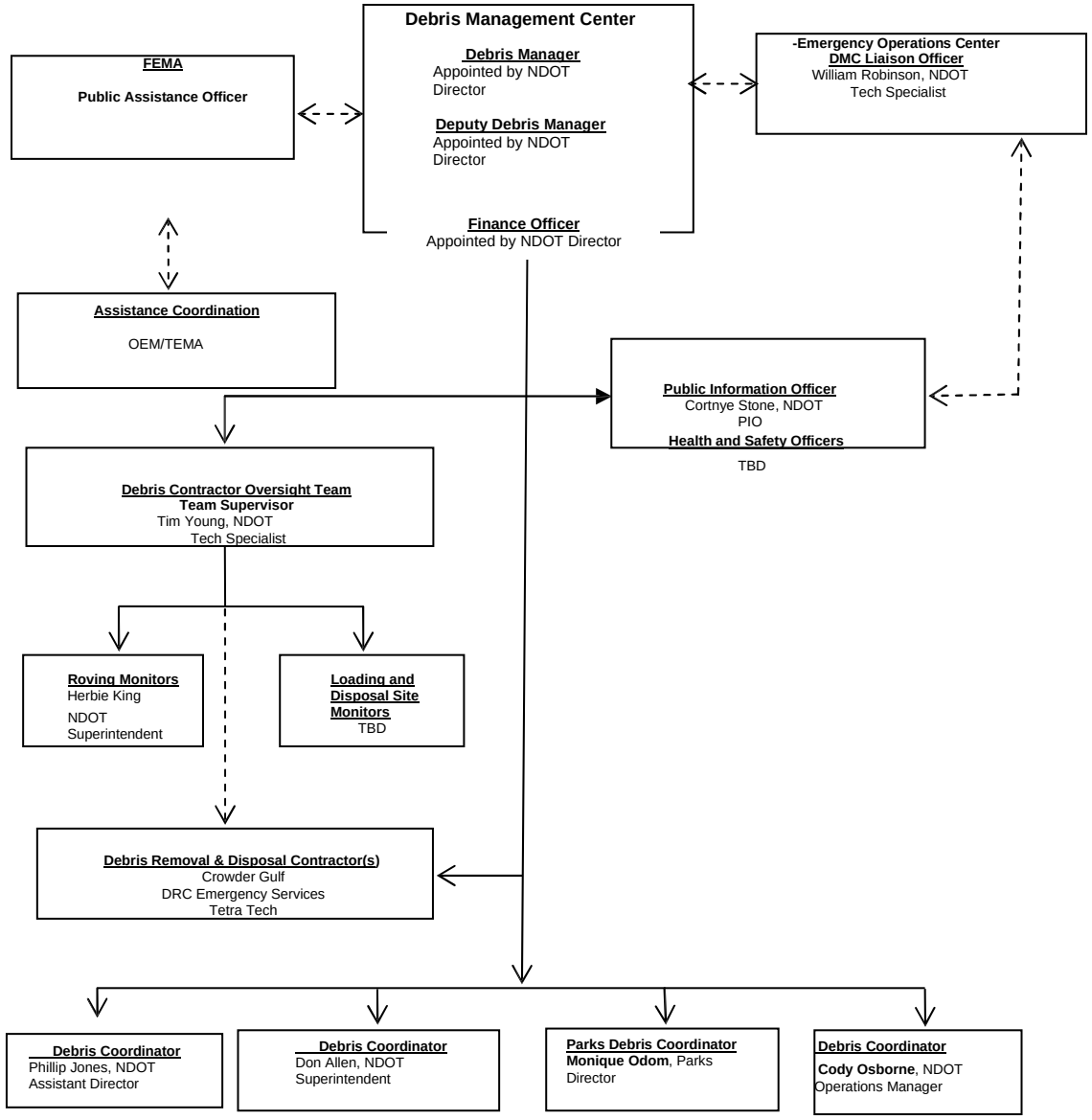



**Figure 1 – Debris Management Center Organization**

## Roving Monitors

Teams of Roving Monitors will be assigned to a specific Debris Control Zones or to a specific Contractor depending upon the distribution of work assignments. Their mission is to act as the "eyes and ears" for the Debris Manager and DCOT Supervisor to ensure that all contract requirements, including safety, are properly implemented and enforced.

Staff to fulfill the Roving Monitor positions will be provided by NDOT. Roving Monitors will have the authority to monitor contractor operations and to report back to the DCOT Supervisor. Roving

Monitors may request contract compliance, but do not have the authority to otherwise direct contractor operations or to modify the contract scope of work.

The following actions will be initiated immediately after a debris-generating disaster:

1. The Debris Manager will establish two-person roving monitor teams with their own transportation and communications.

2. Roving Monitor teams will be assigned to each contractor's debris removal and disposal zone.

Once assigned, Roving Monitors will monitor debris operations on a full-time basis and make unannounced visits to all loading and disposal sites within their assigned Debris Management zone(s). In addition, Roving Monitors are responsible to do the following:

1. Obtain and become familiar with all debris removal and disposal contracts for which they are providing oversight.

2. Observe all phases of Debris Management operation, to include loading sites, TDSR sites, and final landfill sites.

3. Complete a Debris Loading Site Monitoring Checklist (Attachment 1) for every site visited.

4. Complete a Debris Disposal Site Monitoring Checklist (Attachment 2) for every TDSR Site visited. Ensure that operations are being followed as specified in the applicable Debris Removal and Disposal Contract with respect to Local, State, and Federal regulations.

5. Complete the Stockpiled Debris Field Survey Form (Attachment 3) at least weekly at all temporary TDSR Sites to determine estimated quantities of debris stockpiled.

6. Periodically measure curbside debris using the estimating formulas shown in Attachment 4.

7. Prepare a daily written report of all contractor activities observed to include photographs and the aforementioned checklists.

Roving Monitors will also submit daily written reports to the DCOT supervisor outlining their observations with respect to the following:

1. Is the contractor using the site properly with respect to layout and environmental considerations?

2. Has the contractor established lined temporary storage areas for ash, household hazardous wastes, and other materials that can contaminate soil and groundwater?

3. Has the contractor established environmental controls in equipment staging areas, fueling, and equipment repair areas to prevent and mitigate spills of petroleum products and hydraulic fluids?

4. Are plastic liners in place under stationary equipment such as generators and mobile lighting plants?

5. Has the contractor established appropriate rodent control measures?

6. Are burn sites constructed and operating in accordance with the plans and requirements as stated in the contract?

7. Has the contractor establish procedures to mitigate:
   a. Smoke – Are the incineration pits constructed properly and being operated according to the contract statement of work?

   b. Dust – Are water trucks employed to keep the dust down?

   c. Noise – Have berms or other noise abatement procedures been employed?

   d. Traffic – Does the TDSR site have a suitable layout for ingress and egress to help traffic flow?

Roving Monitor's reports will also include observations at loading sites, disposal sites, and the locations of any illegal dumping sites.

**Load Site Monitors**

Load Site Monitors will be stationed at designated contractor loading sites.

Load Site Monitor positions will be staffed from NDOT and supplemented by other Metro Nashville Department personnel depending on the magnitude of the debris-generating event.

Load Site Monitors will be assigned to each contractor loading site within designated Debris Control Zones. The Load Site Monitors' primary function is to verify that debris being picked up is eligible under the terms of the contract. They will initiate and sign load tickets as verification that the debris being picked up is eligible. (See Figure 1).

The primary tracking mechanism for all debris loaded, hauled, and disposed of will be the Load Ticket. Load tickets will be initiated at pickup and closed-out upon drop-off of each load, and are to be used by both City and contracted haulers.

**Disposal Site Monitors**

Disposal Site Monitors will be staffed by NDOT and/or Parks and Recreation personnel. The Monitors will be stationed at all TDSR sites and landfill disposal sites for the purpose of verifying the quantity of material being hauled by the contractor.

The Disposal Site Monitor will estimate the cubic yards of debris in each truck entering the TDSR site or landfill disposal site and will record the estimated quantity on pre-numbered debris load tickets. The contractor will only be paid based on the number of cubic yards of material deposited at the disposal site as recorded on the debris load tickets (See Figure 2).

The Disposal Site Monitor will be responsible for completing and signing each load ticket and returning DCOT copies to the DCOT Supervisor. In addition, Disposal Site Monitors will maintain a daily Debris Disposal Site Load Tracking Log (Attachment 5), which will also be returned to the DCOT at the end of each day.

At each TDSR site and landfill disposal site, the Contractor will be required to construct and maintain a monitoring station tower for use by the Disposal Site Monitor. The Contractor will construct the monitoring station towers of pressure treated wood with a floor elevation that affords the Disposal Site Monitor a complete view of the load bed of each piece of equipment being utilized to haul debris. The Contractor will also provide each site with chairs, table, and portable sanitary facilities.

| METRO NASHVILLE GOVERNMENT LOAD TICKET | Ticket No. 000001 |
|---|---|
| **Section 1** | |
| **Prime Contractor:** | **Date:** |
| **Subcontractor (Hauler):** | **Departure Time:** |
| **Driver:** | **Truck Plate No.:** |
| **Measured Bed Capacity (cu. yds.):** | |
| **Debris Pickup Site Location:**<br>**(must be a street address)** | |
| **Debris Type:** □ **Vegetation** □ **Construction & Demolition**<br>□ **Mixed** □ **Other:** | |
| **Loading Site Monitor: Print Name:**<br>**Signature:** | |
| **Remarks:** | |
| **Section 2** | |
| **Debris Disposal Site Location:** | |
| **Estimate Debris Quantity: cu. yds. _____** | **Arrival Time:** |
| **Disposal Site Monitor: Print Name:**<br>_____<br>**Signature:** | |
| **Remarks:** | |
| Copies: White – Load Site Monitor Green – Disposal Site Monitor<br>Canary, Pink, Gold – Onsite Contractor's Representative or Driver | |

**Figure 2 - Sample Load Ticket**

For tracking of all debris moved in response to a given event, the following is the disposition of each ticket part:

Part 1 (White) Load Site Monitor (Turned in daily to the DMC)
Part 2 (Green) Disposal Site Monitor (Turned in daily to the DMC)
Part 3 (Canary) Driver or Contractor's on-site representative (Contractor Copy)
Part 4 (Pink) Driver or Contractor's on-site representative (Contactor Copy)
Part 5 (Gold) Driver or Contractor's on-site representative (Driver/Subcontractor Copy)

**Annual Training Workshop**

The Debris Manager will be responsible for coordinating an annual training workshop for all assigned DCOT personnel. The purpose of the workshop is to review the Debris Management Plan procedures and to ensure that the DCOT operation works smoothly. Items of discussion will include:

1. Contractor responsibility
2. Mobilization sites
3. Logistical support
4. Pre-storm mobilization
5. Procedures for call-up of Contractor personnel and equipment
6. Haul routing
7. Contractor vehicle identification and registration
8. Debris hauling load ticket administration
9. Mobilization and operation of the TDSR sites
10. Contractor payment request submission, review, and verification
11. Special procedures for Household Hazardous Waste
12. TDSR site closure requirements

This training will be scheduled annually in January or February, prior to the start of the Spring Tornado Season.

## ATTACHMENT 1

## Debris Loading Site Monitoring Checklist

Date: _____
Arrival Time: _____Departure Time: _____Weather Conditions: _____
Loading Site Location: _____
(Street address or nearest intersection)
GPS Location: **N**_____; **W**_____
Loading Site Monitor's Name _____
(Print Name)
Roving Monitor's Name: _____
(Print Name)
_____
(Signature)

**Loading Site**

1. Is the Site Monitor filling out the Load Ticket properly? YES ☐ NO ☐
   If NO, explain actions taken:
   _____
   _____

2. Is the Contractor loading eligible debris from the designated right-of way (approximately 15' from curb)? YES ☐ NO ☐
   If NO, explain actions taken:
   _____
   _____

3. Is the Contractor loading trucks to capacity? YES ☐ NO ☐
   If NO, explain actions taken:
   _____
   _____

4. Identify Contractor's truck numbers observed while on site:
   _____;_____;_____;_____;_____;_____;_____;_____;_____
   _____;_____;_____;_____;_____;_____;_____;_____;_____

5. Were photographs taken at the loading site? YES ☐ NO ☐
   If YES, list photo log numbers: _____;_____;_____;_____;_____

General Notes and Comments: (Include observations within the general area as to overall cleanup activities)
_____
_____
_____
_____(Use reverse side if necessary)

## ATTACHMENT 2

## Debris Disposal Site Monitoring Checklist

Date: _____
Arrival Time: _____Departure Time: _____Weather Conditions: _____
Disposal Site Location: _____
(Street address or nearest intersection)
GPS Location: **N**_____; **W**_____
Disposal Site Monitor's Name _____
(Print Name)
Roving Monitor's Name: _____
(Print Name
_____
(Signature)

**Disposal Site**

1. Is the Disposal Monitor filling out the Load Ticket properly? YES ☐ NO ☐
   If NO, explain actions taken:
   _____
   _____

2. Is the Disposal Monitor attaching a copy of the Weight Ticket to the Load Ticket? YES ☐ NO ☐
   If NO, explain actions taken:
   _____
   _____

3. Are the Contractor's trucks loaded to capacity? YES ☐ NO ☐
   If NO, explain actions taken:
   _____
   _____

4. Identify Contractor's truck numbers observed while on site:
   _____;_____;_____;_____;_____;_____;_____;_____;_____
   _____;_____;_____;_____;_____;_____;_____;_____;_____

5. Were photographs taken at the loading site? YES ☐ NO ☐
   If YES, list photo log numbers: _____;_____;_____;_____;_____

General Notes and Comments: (Include observations of operations at the landfill)
_____
_____
_____
_____
_____(Use reverse side if necessary)

# ATTACHMENT 3

**Stockpiled Debris Field Survey Form**

## Stockpiled Debris Field Survey Form

**Type of Material:**

**Clean Vegetative___Mixed___C&D___Mulch____Other_____**

**Stockpile Location: _____ Date:_____**

**Average Length of Stockpile: _____Feet**

**Average Width of Stockpile: — _____Feet**

**Average Height of Stockpile:_ _____Feet**

**Total Cubic Feet : _____Cubic Feet**

**Total Cubic Yards:(Cubic Feet divided by 27) _____Cubic Yards**

**Contractor's Representative: _____Date _____**

**Government's Representative: _____Date_____**

**Remarks:_____**

**See Sketch of Site on Reverse Side**

## Stockpiled Debris Field Survey Form

**Stockpile Location: _____**

Width _____Feet

Height ___Feet

Length _____Feet

Height ___Feet

Length _____Feet

Remarks:_____

Height ___Feet

L'x W'x H' = CY
27

Width _____Feet

# ATTACHMENT 4

## Debris Estimating Formulas

### Estimating Rule of Thumb:

- 15 trees, 8 inches in diameter = 40 CY
- Single wide mobile home = 290 CY
- Double wide mobile home = 415 CY
- Root system (8'-10' dia.) = One flatbed trailer to move
- Treat debris piles as a cube, not a cone, when performing estimates.
- Average pace = 2' 6"

### Formulas

Conversions:

- 27 cubic feet=1 cubic yard
- One mile=5280 feet or 1760 yards

Building formula:

L'xW' (building footprint) x No. of Stories x 0.2 = _____Cubic Yards of debris

Debris pile formula:

L'xW'xH'= _____Cubic Yards of debris.

27

### Conversion Factors from Cubic Yards to Tons

- Mixed Construction & Demolition Debris = 500 LBS/CY or CY x 0.25 = Tons
- Yard Vegetation = 300 LBS/CY or CY x 0.15 = Tons
- Mulch = 500 LBS/CY or CY x 0.25 = Tons
- Regular Trash = 300 LBS/CY or CY x 0.15 = Tons
- Concrete = 2000 LBS/CY or CY x 1.0 = Tons
- Sand = 2600 LBS/CY or CY x 1.3 = Tons
- Land Clearing (Root balls with dirt) 1500 LBS/CY or CY x 0.75 = Tons

# ATTACHMENT 5

## Debris Disposal Site Load Tracking Log

| Debris Disposal Site Load Tracking Log | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Date** | | **Supervisor's Name** | | **Debris Contractor's Site Representative's Name** | | | |
| **Weather: am:** | | | **Weather: pm** | | | | |
| **Location** | | | **Monitor's Name(s)** | | | | |
| **Truck No.** | **Ticket No.** | **Ticket Owner** | **Estimated Quantity (CY)** | **Monitor's Initials** | **Load Accepted** | **Load Denied** | **Remarks** |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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# APPENDIX G

# DEBRIS REMOVAL AND DISPOSAL MONITORING PLAN

# DEBRIS REMOVAL AND DISPOSAL MONITORING PLAN

## GENERAL

The Metropolitan Government of Nashville has entered into a contract with Crowder Gulf, DRC Emergency Services LLC, Triad Environmental Consultants Inc., and Womble LLC for the purposes of:

- Removing debris from City rights-of-way to temporary debris staging sites, and hauling vegetative and recyclable C&D and mixed debris to a debris volume reduction site.
- Setting up and operating sufficient TDSR debris volume reduction sites at designated locations throughout Metro Nashville as determined by the Debris Manager.
- Hauling chips/mulch from the debris volume reduction site to a landfill or a location of the Debris Manager's choosing.
- Hauling recycled concrete, metal and other recycle C&D and mixed debris to a landfill or a location of the Debris Manager's choosing or, if permitted under the terms of the contract, to a location of the Contractor's choosing for profit.
- Removal and proper disposal of hazardous waste and white goods according to regulatory guidelines.
- Rental of Heavy Equipment for use in debris removal.

The Nashville Department of Transportation will be responsible for monitoring the Contractor's debris removal and disposal activities using NDOT or the current monitoring contract in place to prepare Debris Load Tickets and contract oversight.

## PURPOSE

The purpose of this plan is to outline the monitoring responsibilities of the NDOT Contract Oversight Team. This plan is subject to revision based on changing conditions.

## MONITORING OPERATIONS

Metro Nashville and Davidson County has been divided into twelve Debris Management Zones based on established Brush Collection Zones of the Nashville Department of Transportation. The familiarity of the general public and contractors with collection routes within these zones will aid in the timely removal of debris from these areas. The Contractor will be responsible for removing all eligible vegetative, C&D and mixed debris from city street rights-of-way and hauling limbs, branches, and yard wastes to designated TDSR sites at locations determined by the Debris Manager.

Tree trunks greater than two feet in diameter and root balls will be hauled directly to the Debris Managers designated TDSR site for such items. Monitoring activities will be controlled by the Debris Manager from the DMC located at 750 South 5$^{th}$ Street. Phone number for the Debris Manager is 862-8700. Day to day operations and contracting problems/questions should be directed to Tim Young, NDOT Tech Specialist, (615) 862-8752.

Monitors will be responsible for initiating Debris Load Tickets at Contractor debris loading sites and estimating and recording the type and quantity of debris, in cubic yards, of Contractor vehicles entering the TDSR sites on Debris Load Tickets (See Figure 1).

**DEBRIS LOADING SITES MONITORS**

The Debris Loading Site Monitors will complete Section 1 of the load ticket. The monitor will keep one copy and give the remaining copies to the truck driver. The monitor's copy will be turned into the Debris Manager or designated representative on a daily basis. Load ticket information will be entered into a database by NDOT personnel.

**TDSR SITE MONITORS**

The TDSR site monitors will record the estimated quantity, in cubic yards, on Section 2 of the load ticket. The monitor will keep one copy and give the remaining copies to the truck driver. The monitor's copy will be turned into the Debris Manager or designated representative on a daily basis. Load ticket information will be entered into a database by NDOT personnel.

Monitors will be located at the entrance to the TDSR site where the inspection tower is located. They will be responsible for estimating and recording the cubic yards of debris in Section 2 of the Load Ticket for all incoming Contractor's debris hauling vehicles. A sample of the Debris Load Ticket is shown in Figure1.

| -METRO GOVERNMENT OF NASHVILLE LOAD TICKET | Ticket No. 000001 |
|---|---|
| **Section 1** | |
| **Prime Contractor:** | **Date:** |
| **Subcontractor (Hauler):** | **Departure Time:** |
| **Driver:** | **Truck Plate No.:** |
| **Measured Bed Capacity (cu. yds.):** | |
| **Debris Pickup Site Location:**<br>**(must be a street address)** | |
| **Debris Type:** □ **Vegetation** □ **Construction & Demolition**<br>□ **Mixed** □ **Other:** | |
| **Loading Site Monitor: Print Name:**<br>**Signature:** | |
| **Remarks:** | |
| **Section 2** | |
| **Debris Disposal Site Location:** | |
| **Estimate Debris Quantity: cu. yds. _____** | **Arrival Time:** |
| **Disposal Site Monitor: Print Name:**<br>_____<br>**Signature:** | |
| **Remarks:** | |
| Copies: White – Load Site Monitor Green – Disposal Site Monitor<br>Canary, Pink, Gold – Onsite Contractor's Representative or Driver | |

**Figure 1 – Sample Load Ticket**

## COMPLETING THE LOAD TICKET

The Disposal Site Monitor will be stationed in the inspection tower and make an estimate of the quantity of debris contained in the truck or trailer in cubic yards. Each truck or trailer will have the measured hauling capacity in cubic yards recorded on the side of the truck or trailer. That number should be validated with the quantity stated in Section 1.

The Disposal Site Monitor will indicate the name and the arrival time of the truck and indicate the type of debris in the truck.

The Disposal Site Monitor will record the estimated volume, in cubic yards, on the load ticket in the Estimated Debris Quantity block of material contained within the bed of the truck or trailer.

Examples of a Truck/Trailer Estimating Table and Truck Capacity Table are shown on the following page.

The Monitor will print and sign his/her name in the designated block.

The Disposal Site Monitor will retain one copy of the load ticket and give the remaining copies to the truck driver. The Disposal Site Monitor's copy will be turned into the Debris Manager or his representative at the end of each day. These are controlled forms and cannot be lost since they will be used to verify the amount of money paid to the Debris reduction site Contractor and to the debris hauling Contractor.

**EXAMPLE TRUCK / TRAILER ESTIMATING TABLE**

| Truck/Trailer Size - CY | 100% CY | 90% CY | 85% CY | 80% CY | 75% CY |
|---|---|---|---|---|---|
| 32 | 32 | 29 | 27 | 25 | 24 |
| 46 | 46 | 41 | 39 | 37 | 35 |
| 47 | 47 | 42 | 40 | 38 | 35 |
| Note: Truck/Trailer without tailgate is rated at 85% of capacity | | | | | |

**EXAMPLE TRUCK CAPACITY TABLE**

| Truck Number | Driver | Model | License # | Capacity in CY |
|---|---|---|---|---|
| 101 | Joe Blow | Self Loader | 39X2520 GA | 32 CY |
| 102 | Kim Driver | Self Loader | 39X2522 TX | 32 CY |
| 103 | Steve Loader | Trailer | 63XN362 MD | 47 CY |
| 104 | David Dump | Self Loader | 63X5542 LA | 46 CY |
| 105 | Chip Grinder | Trailer | W5008 FL | 47 CY |

List Vehicle Numbers, Drivers Name, Model, License Number and Measured Capacity of Truck / Trailer Bed In Cubic Yards.

NOTE: Debris Contract Oversight Team members must measure and photograph every truck and trailer used by the contractor to move debris. This should be done jointly with the contractor's representative before debris removal operations begin.

**MONITORING STAFF ASSIGNMENTS**

Monitoring assignments and personnel names should be recorded in a table similar to the following:

**EXAMPLE MONITORING STAFF TRACKING TABLE**

| Date | Monitor's Name | Monitor's Title | Disposal Site Name | Disposal Site Address | Hours Worked |
|---|---|---|---|---|---|
| 10/1/13 | Arnold Ziffle | Inspector | Hooterville Park | 123 Main St. | 7 a.m. – 6 p.m. |
| 10/1/13 | Joe Blades | Tow Truck Operator | Redux Central | 5000 South St. | 7 a.m. – 7 p.m. |

**TRAINING**

All assigned monitors will attend an 8 hour training session at 740 South 5th St. Nashville, Tn. at pre-scheduled times.

# APPENDIX H

# DEBRIS CLEARING, REMOVAL, & DISPOSAL GUIDELINES

**Table of Contents**

**Right of Entry / Hold Harmless Agreement Sample – Metro Code 13.32**

I/We _____, the owner(s) of the property commonly identified as _____, _____, Tennessee, do hereby grant and give freely and without coercion, the right of access and entry to the Metropolitan Government of Nashville, its agencies, contractors, and subcontractors, for the purpose of removing and clearing any or all storm-generated debris of whatever nature from the above described property.

It is fully understood that this permit is not an obligation to perform debris clearance. The undersigned agrees and warrants to hold harmless the Metropolitan Government of Nashville, its agencies, contractors, and subcontractors, for damage of any type whatsoever either to the above described property or persons situated thereon and hereby release, discharge, and waive any action, either legal or equitable, that might arise out of any activities on the above described property. The property owner(s) will mark any storm damaged sewer lines, water lines, and other utility lines located on the described property.

I/We (☐have, ☐have not) (☐will, ☐will not) receive(d) any compensation for debris removal from any other source, including the Small Business Association (SBA), Farm Service Agency, private insurance, individual and family grant program or any other public assistance program. I will report for this property any insurance settlements to me or my family for debris removal that has been performed at government expense. For the considerations and purposes set forth herein, I set my hand this _____day of _____, 20__.

_____ _____

Witness Owner

_____

Owner

_____

Telephone Number and Address

**TDSR Site Setup and Closeout Guidelines**

## *VII. TDSR Site Setup*

The topography and soil/substrate conditions should be evaluated to determine best site layout. When planning site preparation, think of ways to make restoration easier. For example, if the local soils are very thin, the topsoil can be scraped to bedrock and stockpiled in perimeter berms. Upon site closeout, the uncontaminated soil can be spread to preserve the integrity of the tillable soils.

The following site baseline data checklist should be used to evaluate a site before a contractor begins operations and used during and after to ensure that site conditions are properly documented.

## *VIII. TDSR Site Baseline Data Checklist*

### A. Before Activities Begin

- ☐ Take ground or aerial photographs and/or video.
- ☐ Note important features, such as structures, fences, culverts, and landscaping.
- ☐ Take random soil samples.
- ☐ Take random groundwater samples.
- ☐ Take water samples from existing wells.
- ☐ Check the site for volatile organic compounds.

### B. After Activities Begin

- ☐ Establish groundwater-monitoring wells.
- ☐ Take groundwater samples.
- ☐ Take spot soil samples at household hazardous waste, ash, and fuel storage areas.

### C. Progressive Updates

- ☐ Update videos/photographs.
- ☐ Update maps/sketches of site layout.
- ☐ Update quality assurance reports, fuel spill reports, etc.

## *IX. TDSR Site Operations*

Lined temporary storage areas should be established for ash, household hazardous waste, fuels, and other materials that may contaminate soils and groundwater. Plastic liners should be placed under stationary equipment such as generators and mobile lighting plants. These actions should be included as a requirement in the contract scope of work. If the site is also an equipment storage area, fueling and equipment repair should be monitored to prevent and mitigate spills of petroleum products and hydraulic fluids. Be aware of and lessen the effects of operations that might irritate occupants of neighboring areas. Establishment of a buffer zone can abate concerns over smoke, dust, noise, and traffic.

Consider on-site traffic patterns and segregate materials based on planned volume reduction methods. Operations that modify the landscape, such as substrate compaction and over excavation of soils when loading debris for final disposal, will adversely affect landscape restoration.

Debris removal/disposal should be viewed as a multi-staged operation with continuous volume reduction. There should be no significant accumulation of debris at temporary storage sites. Instead, debris should be constantly flowing to burners and grinders, or recycled with the residue and mixed construction and demolition materials going to a landfill.

## *X. TDSR Site Closeout*

Each TDSR Site will eventually be emptied of all material and be restored to its previous condition and use. The Contractor is required to remove and dispose of all mixed debris, construction and demolition debris, and debris residue to approved landfills. Appropriate city inspectors will monitor all closeout activities to ensure that the Contractor complies with the Debris Removal and Disposal Contract. Additional measures may be necessary to meet local, State, and Federal environmental requirements because of the nature of the TDSR site operation(s).

### A. TDSR Site Closeout Planning

The Contractor must assure the Debris Manager that all TDSR sites are properly remediated. There will be significant costs associated with this operation as well as close scrutiny by the local press and environmental groups. Site remediation will go smoothly if baseline data collection and site operation procedures are followed. Closeout or re-approval of a TDSR site should be accomplished within 30 days of receiving the last load of debris.

### B. TDSR Site Closeout Steps

1. Contractor is responsible for removing all debris from the site.
2. Contractor conducts an environmental assessment with the Debris Manager and landowner.
3. Contractor develops a remediation plan.
4. Remediation plan reviewed by the Debris Manager, landowner, and appropriate environmental agency.

5. Remediation plan approved by the appropriate environmental agency.
6. Contractor executes the plan.
7. Contractor obtains acceptance from the Debris Manager, appropriate environmental agency, and the landowner.

## C. TDSR Site Closeout Coordination

The Contractor will coordinate the following closeout requirements through the DCOT staff:

1. Coordinate with local and State officials responsible for construction, real estate, contracting, project management, and legal counsel regarding requirements and support for implementation of a site remediation plan.
2. Establish an independent testing and monitoring program. The Contractor is responsible for environmental restoration of both public and leased sites. The Contractor will also remove all debris from sites for final disposal at landfills prior to closure.
3. Refer to appropriate and applicable environmental regulations.
4. Prioritize site closures.
5. Schedule closeout activities.
6. Determine separate protocols for ash, soil and water testing.
7. Develop decision criteria for certifying satisfactory closure based on limited baseline information.
8. Develop administrative procedures and contractual arrangements for closure phase.
9. Inform local and State environmental agencies regarding acceptability of program and established requirements.
10. Designate approving authority to review and evaluate Contractor closure activities and progress.
11. Retain staff during closure phase to develop site-specific remediation for sites, as needed, based on information obtained from the closure checklist shown below.

## D. Material Removal

1. All processed and unprocessed vegetative material and inter debris shall be removed to a properly approved solid waste management site.
2. Tires must be disposed of at a scrap tire collection/processing facility; white goods and other scrap metal should be separated for recycling.
3. Burn residues shall be removed to a properly approved solid waste management site or land applied in accordance with these guidelines.
4. All other materials, unrecoverable metals, insulation, wallboard, plastics, roofing material, painted wood, and other material from demolished buildings that is not inert debris (see #1 above) as well as inter debris that is mixed with such materials shall be removed to a properly permitted C&D recycling facility, C&D landfill, or municipal solid waste landfill.
5. All materials deemed hazardous shall be handled and disposed of according to current regulatory guidelines by properly licensed/permitted authorities and/or contractors.

## E. TDSR Site Remediation

During the debris removal process and after the material has been removed from each of the TDSR sites, environmental monitoring will be needed to close each of the sites. This is to ensure that no long-term environmental contamination is left on the site. The monitoring should be done on three different media: ash, soil, and groundwater.

**Ash.** The monitoring of the ash should consist of chemical testing to determine the suitability of the material for either agricultural use or as a landfill cover material.

**Soil.** Monitoring of the soils should be by portable inspection methods to determine if any of the soils are contaminated by volatile hydrocarbons. The Contractors may do this if it is determined that hazardous material, such as oil or diesel fuel was spilled on the site. This phase of the monitoring should be done after the stockpiles are removed from the site.

**Ground Water.** The monitoring of the groundwater should be done to determine the probable effects of rainfall leaching through either the ash areas or the stockpile areas.

## F. TDSR Site Closure Checklist

- ☐ Site number and location
- ☐ Date closure complete
- ☐ Household hazardous waste removed
- ☐ Contractor equipment and temporary structures removed
- ☐ Contractor petroleum spills remediated
- ☐ Ash piles removed
- ☐ Comparison of baseline information to conditions after the contractor has vacated the temporary site

## G. Site Re-approval

Sites that were approved as TDSR sites will require re-approval for long-term storage, continuing reduction processing, and permanent disposal if site is not closed out in accordance with guidelines stated here. Sites shall be managed and monitored in accordance with Metro Nashville requirements to prevent threats to the environment and/or public health.

**Temporary Construction and Demolition Staging / Transfer Site Guidelines**

## *XI. General*

The following guidelines should be considered when establishing staging/transfer sites for Construction & Demolition (C&D) and C&D recycling treatment and processing facilities.

These guidelines apply only to sites for staging/transferring C&D storm debris (roof shingles/roofing materials, carpet, insulation, wallboard, treated and painted lumber, etc.). Arrangements should be made to screen out unsuitable materials, such as household garbage, white goods, asbestos containing materials (ACM's), and household hazardous waste.

## *XII. Selecting Temporary Staging / Transferring Sites*

Locating sites for staging/transferring C&D waste can be accomplished by evaluating potential sites and by revisiting sites used in the past to see if site conditions have changed or if the surrounding areas have changed significantly to alter the use of the site. The following guidelines are presented in locating a site for "staging/transferring" and are considered "minimum standards" for selecting a site for use:

- Sites should be located outside of identifiable or known floodplain and flood prone areas; consult the Flood Insurance Rate Map for Metro Nashville to verify these areas. Due to heavy rains associated with tornados, severe storms, and the saturated conditions that result, flooding may occur more frequently than normally expected.

- Unloading areas for incoming C&D debris material should be at a minimum 100 feet from all surface waters of the state. "Waters of the state" includes but is not limited to small creeks, streams, watercourses, ditches that maintain seasonal groundwater levels, ponds, wetlands, etc.

- Storage areas for incoming C&D debris shall be at least 100 feet from the site property boundaries, on-site buildings, structures, and septic tanks with leach fields or at least 250 feet from off-site residential dwellings, commercial or public structures, and potable water supply wells, whichever is greater.

- Materials separated from incoming C&D debris (white goods, scrap metal, etc.) shall be at least 50 feet from site property lines. Other non-transferable C&D wastes (household garbage, larger containers of liquid, household hazardous waste shall be placed in containers and transported to the appropriate facilities as soon as possible.

- Sites that have identified wetlands should be avoided, if possible. If wetlands exist or wetland features appear at a potential site, verification by the Metro Water Dept. and TDEC will be necessary to delineate areas of concern. Once areas are delineated, the areas shall be flagged and a 100-foot buffer shall be maintained for all activities on-going at the site.

- Sites bisected by overhead power transmission lines need careful consideration due to large dump body trucks/trailers used to haul debris, and underground utilities need to be identified due to the potential for site disturbance by truck/equipment traffic and possible site grading.

- Sites shall have an attendant(s) during operating hours to minimize the acceptance of unapproved materials and to provide directions to haulers and private citizens bringing in debris.

- Sites should be secure after operating hours to prevent unauthorized access to the site. Temporary measures to limit access to the site could be the use of trucks or equipment to block entry. Gates, cables, or swing pipes should be installed as soon as possible for permanent access control, if a site is to be used longer than two weeks.

- When possible, signs should be installed to inform haulers and the general public on types of waste accepted, hours of operation, and who to contact in case of afterhours emergency.

- Final written approval is required to consider any TDSR site to be closed. Closeout of processing/recycling sites shall be within one (1) year of receiving waste. If site operations will be necessary beyond this time frame, permitting of the site by the State may be required. If conditions at the site become injurious to public health and the environment, then the site shall be closed until conditions are corrected or permanently closed. Closeout of sites shall be in accordance with the closeout and restoration of TDSR sites guidelines.

## *XIII. C&D Treatment & Processing/Recycling Sites*

Management of C&D debris and source separated materials to be recycled shall be in accordance with the following additional conditions:

- Contact the Metro Health Department for information on managing asbestos containing materials (ACM's) or materials that are considered regulated asbestos containing materials.

- Sites should be located outside of identifiable or known floodplain and flood prone areas; consult the Flood Insurance Rate Map for Metro Nashville to verify these areas. Due to heavy rains associated with tornados, severe storms, and the saturated conditions that result, flooding may occur more frequently than normally expected.

- Storage areas for incoming debris should be at a minimum 100 feet from all surface waters of the state. "Waters of the state" includes but is not limited to small creeks, streams, watercourses, ditches that maintain seasonal groundwater levels, ponds, wetlands, etc.

- Storage areas for incoming debris shall be located at least 100 feet from property boundaries and on-site buildings/structures.

- Sites that have identified wetlands should be avoided, if possible. If wetlands exist or wetland features appear at a potential site verification by the Metro Water Dept. and TDEC will be necessary to delineate areas of concern. Once areas are delineated, the areas shall be flagged and a 100-foot buffer shall be maintained for all activities on-going at the site.

- Storage areas for incoming C&D debris shall be at least 100 feet from the site property boundaries, on-site buildings, structures, and septic tanks with leach fields or at least 250 feet

from off-site residential dwellings, commercial or public structures, and potable water supply wells, whichever is greater.

- Sites bisected by overhead power transmission lines need careful consideration due to large dump body trucks / trailers used to haul debris and the intense heat generated by the air curtain burner (ACB) device. Underground utilities need to be identified prior to digging pits for using the ACB device.

- Provisions should be made to prevent unauthorized access to facilities when not open for use. As a temporary measure, access can be secured by blocking drives or entrances with trucks or other equipment when the facilities are closed. Gates, cables, or other more standard types of access control should be installed as soon as possible.

- When possible, post signs with operating hours and information about what types of clean up waste may be accepted. Also include information as to whether only commercial haulers or the general public may deposit waste.

- Final written approval is required to consider any TDSR site to be closed. Closeout of processing / recycling sites shall be within six months of receiving waste. If site operations will be necessary beyond this time frame, permitting of the site by the State may be required. If conditions at the site become injurious to public health and the environment, then the site shall be closed until conditions are corrected or permanently closed.

**Temporary Vegetative TDSR Site Guidelines**

## *XIV. General*

When preparing temporary facilities for handling debris resulting from the cleanup efforts due to tornado or severe storm damage, the following guidelines should be considered when establishing Temporary TDSR sites.

These guidelines apply only to sites for staging or burning vegetative storm debris (yard waste, trees, limbs, stumps, branches, and untreated or unpainted wood). Arrangements should be made to screen out unsuitable materials.

The two method(s) of managing vegetative and land clearing storm debris is "chipping/grinding" for use in landscape mulch, compost preparation, and industrial boiler fuel or using an "air curtain burner (ACB), with the resulting ash being land applied as a liming agent or incorporated into a finished compost product as needed.

## *XV. Chipping and Grinding Sites*

Locating sites for chipping/grinding of vegetative and land clearing debris will require a detailed evaluation of potential sites and possible revisits at future dates to see if site conditions have changed or if the surrounding areas have changed significantly to alter the use of the site.

The following guidelines are presented in locating a site for "chipping/grinding" and are considered "minimum standards" for selecting a site for use:

- Sites should be located outside of identifiable or known floodplain and flood prone areas; consult the Flood Insurance Rate Map for Metro Nashville to verify these areas. Due to heavy rains associated with tornados, severe storms, and the saturated conditions that result, flooding may occur more frequently than normally expected.

- Storage areas for incoming debris and processed material should be at a minimum 100 feet from all surface waters of the state. "Waters of the State" includes but is not limited to small creeks, streams, watercourses, ditches that maintain seasonal groundwater levels, ponds, wetlands, etc.

- Storage areas for incoming debris and processed material shall be at least 100 feet from the site property boundaries and on-site buildings/structures. Management of processed material shall be in accordance with the guidelines for reducing the potential for spontaneous combustion in compost/mulch piles.

- Storage areas for incoming debris shall be located at least 100 feet from residential dwellings, commercial or public structures, potable water supply wells, and septic tanks with leach fields.

- Sites that have identified wetlands should be avoided, if possible. If wetlands exist or wetland features appear at a potential site, verification by the Metro Water Dept. and TDEC will be necessary to delineate areas of concern. Once areas are delineated, the areas shall be flagged and a 100-foot buffer shall be maintained for all activities on-going at the site.

- Sites bisected by overhead power transmission lines need careful consideration due to large dump body trucks/trailers used to haul debris, and underground utilities need to be identified due to the potential for site disturbance by truck/equipment traffic and possible site grading.

- Sites shall have an attendant(s) during operating hours to minimize the acceptance of unapproved materials and to provide directions to haulers and private citizens bringing in debris.

- Sites should be secure after operating hours to prevent unauthorized access to the site. Temporary measures to limit access to the site could be the use of trucks or equipment to block entry. Gates, cables, or swing pipes should be installed as soon as possible for permanent access control, if a site is to be used longer than two weeks. Sites should have adequate access that prohibits traffic from backing onto public rights-of-way or blocking primary and/or secondary roads to the site.

- When possible, signs should be installed to inform haulers and the general public on types of waste accepted, hours of operation, and who to contact in case of an afterhours emergency.

- Grinding of clean wood waste such as pallets and segregated non-painted/non-treated dimensional lumber is allowed.

- Final written approval is required to consider any TDSR site to be closed. Closeout of staging and processing sites shall be within six months of receiving waste. If site operations will be necessary beyond this time frame, permitting of the site may be required. If conditions at the site become injurious to public health and the environment, then the site shall be closed until conditions are corrected or permanently closed. Closeout of sites shall be in accordance with the closeout and restoration guidelines for TDSR sites.

## Air Curtain Burner Site Location and Operations

Locating sites that are intended for air curtain burning (ACB) operations is a coordinated effort between NDOT, OEM, TDEC, and TEMA for evaluating the surrounding areas and to re-evaluate potential sites used in the past.

The following guidelines are presented for selecting an ACB site and operational requirements once a site is in use:

- Contact the Metro Fire Marshal or Metro Fire Department for input into site selection in order to minimize the potential for fire hazards, other potential problems related to firefighting that could be presented by the location of the site, and to ensure that adequate fire protection resources area available in the event of an emergency.

- The requirements for ACB device(s), in accordance with Air Quality rules require the following buffers: a minimum of 500 feet from the ACB device to homes, dwellings and other structures and 250 feet from roadways. Contact the Nashville Department of Transportation for updates or changes to their requirements.

- Sites should be located outside of identifiable or known floodplain and flood prone areas; consult the Flood Insurance Rate Map for Metro Nashville to verify these areas. Due to heavy rains associated with tornados, severe storms, and the saturated conditions that result, flooding may occur more frequently than normally expected. If ACB pit devices are utilized, a minimum two-foot separation to the seasonal high water table is recommended. A larger buffer to the seasonal high water table may be necessary due to on-site soil conditions and topography.

- Storage areas for incoming debris should be at a minimum 100 feet from all surface waters of the state. "Waters of the State" includes but is not limited to small creeks, streams, watercourses, ditches that maintain seasonal groundwater levels, ponds, wetlands, etc.

- Storage areas for incoming debris shall be located at least 100 feet from property boundaries and on-site buildings/structures.

- Air Curtain Burners in use should be located at least 200 feet from on-site storage areas for incoming debris, on-site dwellings and other structures, potable water supply wells, and septic tanks and leaching fields.

- Wood ash stored on-site shall be located at least 200 feet from storage areas for incoming debris, processed mulch or tub grinders (if a grinding site and ACB site is located on the same property). Wood ash shall be wetted prior to removal from the ACB device or earth pit and placed in storage. If the wood ash is to be stored prior to removal from the site, then rewetting may be necessary to minimize airborne emissions.

- Wood ash to be land applied on site or off site shall be managed in accordance with the guidelines for the land application of wood ash from storm debris burn sites. The ash shall be incorporated into the soil by the end of the operational day or sooner if the wood ash becomes dry and airborne.

- Sites that have identified wetlands should be avoided, if possible. If wetlands exist or wetland features appear at a potential site, verification by the Metro Water Dept. and TDEC will be necessary to delineate areas of concern. Once areas are delineated, the areas shall be flagged, and a 100-foot buffer shall be maintained for all activities on-going at the site.

- Sites bisected by overhead power transmission lines need careful consideration due to large dump body trucks/trailers used to haul debris and the intense heat generated by the ACB device. Underground utilities need to be identified prior to digging pits for using the ACB device.

- Provisions should be made to prevent unauthorized access to facilities when not open for use. As a temporary measure, access can be secured by blocking drives or entrances with trucks or other equipment when the facilities are closed. Gates, cables, or other more standard types of access control should be installed as soon as possible.

- When possible, post signs with operating hours and information about what types of clean up waste may be accepted. Also, include information as to whether only commercial haulers or the general public may deposit waste.

Closeout of air curtain burner sites shall be within six (6) months of receiving waste. If site operations will be necessary beyond this time frame, permitting of the site may be required. If conditions at the site become injurious to public health and the environment, then the site shall be closed until conditions are corrected or permanently closed.

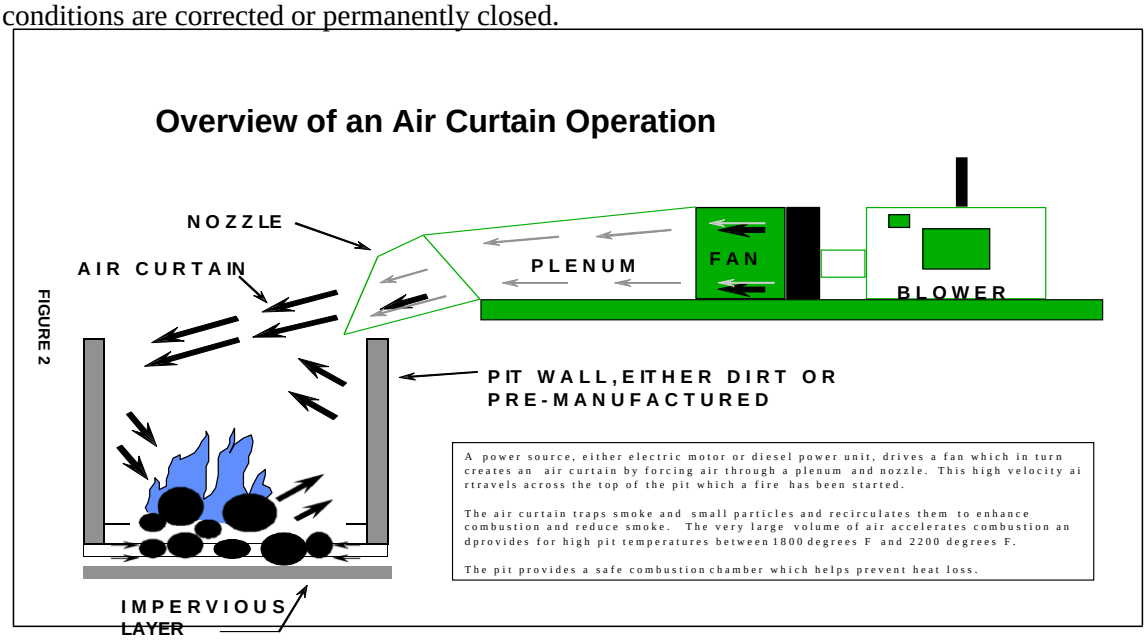
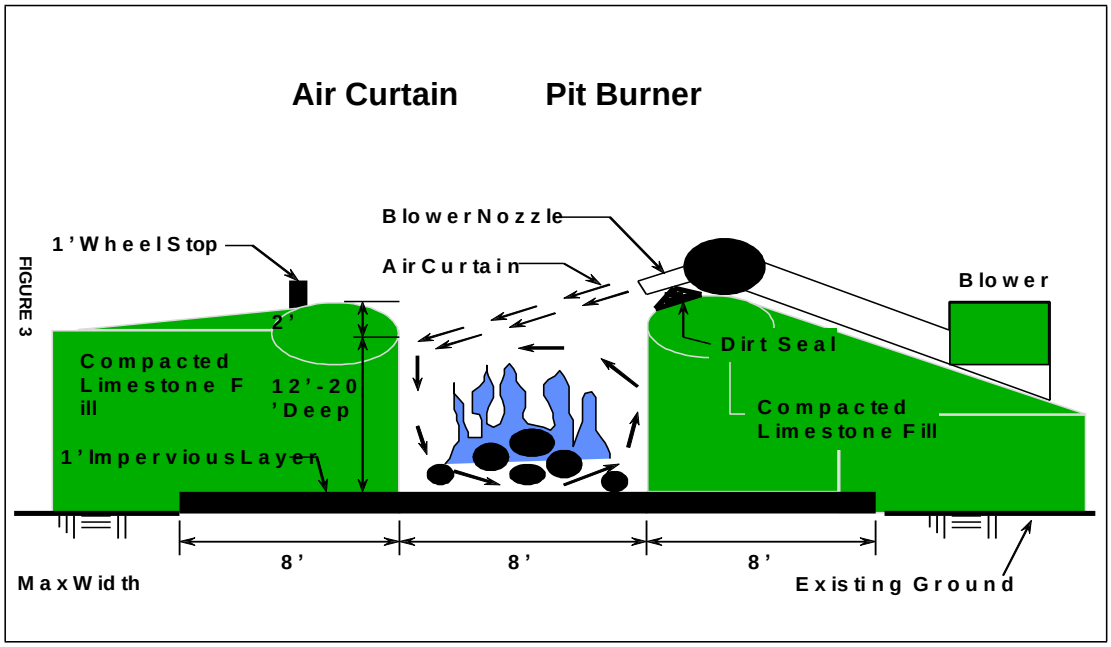


FIGURE 2

Based on FEMA 325, *Debris Management Guide*, Appendix H, Figure 2, 1999.




Based on FEMA 325, *Debris Management Guide*, Appendix H, Figure 3, 1999.

## Environmental Checklist for Air Curtain Pit Burners

Incineration site inspections will also include an assessment of the environmental controls being used by the Contractor. Environmental controls are essential for all incineration methods, and the following will be monitored.

- A setback of at least 1,000 feet should be maintained between the debris piles and the incineration area. Keep at least 1,000 feet between the incineration area and the nearest building. Contractor should use fencing and warning signs to keep the public away from the incineration area.
- The fire should be extinguished approximately two hours before anticipated removal of the ash mound. The ash mound should be removed when it reaches 2 feet below the lip of the incineration pit.
- The incineration area should be placed in an aboveground or below ground pit that is no wider than 8 feet and between 9 and 14 feet deep.
- Above ground incineration pits should be constructed with limestone and reinforced with earth anchors or wire mesh to support the weight of the loaders. There should be a 1-foot impervious layer of clay or limestone on the bottom of the pit to seal the ash from the aquifer.
- The ends of the pits should be sealed with dirt or ash to a height of 4 feet.
- A 12-inch dirt seal should be placed on the lip of the incineration pit area to seal the blower nozzle. The nozzle should overlap the pit edge by 3 to 6 inches.
- There should be 1-foot high, unburnable warning stops along the edge of the pit's length to prevent the loader from damaging the lip of the incineration pit.
- Hazardous or contaminated ignitable material should not be placed in the pit. This is to prevent contained explosions.
- The airflow should hit the wall of the pit about 2 feet below the top edge of the pit, and the debris should not break the path of the airflow except during dumping.
- The pit should be no longer than the length of the blower system and the pit should be loaded uniformly along its length.

## Land Application of Wood Ash from Storm Debris Burn Sites Guidelines

- Whenever possible, soil test data and waste analysis of the ash should be available to determine appropriate application rate.
- In the absence of test data to indicate agronomic rates, application should be limited to 2 to 4 tons per acre/one-time event. If additional applications are necessary, due to the volume of ash generated and time frame in which the ash is generated, then an ash management plan will be needed.
- Ash should be land applied in a similar manner as agricultural limestone.
- Ash should not be land applied during periods of high wind to avoid the ash blowing off the application sites.
- Ash should not be land applied within 25 feet of surface waters or within 5 feet of drainage ways or ditches on sites that are stabilized with vegetation. These distances should be doubled on sites that are not vegetated and the ash should be promptly incorporated into the soil.
- Records should be maintained to indicate where ash is applied and the approximate quantities of ash applied.
- As an option to land application, ash may be managed at a permitted municipal solid waste landfill after cooling to prevent possible fire.
- Assistance in obtaining soil test data and waste analysis of ash should be available through OEM, Metro Health Dept., or TDEC.

## Reducing the Potential for Spontaneous Combustion in Compost or Mulch Piles Guidelines

- When ground organic debris is put into piles, microorganisms can very quickly begin to decompose the organic materials. The microorganisms generate heat and volatile gases as a result of the decomposition process. Temperatures in these piles can easily rise to more than 160 degrees Fahrenheit. Spontaneous combustion can occur in these situations.

- Spontaneous combustion is more likely to occur in larger piles of debris because of a greater possibility of volatile gases building up in the piles and being ignited by the high temperatures. If wind rows can be maintained 5 feet to 6 feet high and 8 feet to 10 feet wide, volatile gases have a better chance of escaping the piles; and the possibility of spontaneous combustion will be reduced.

- Turning piles when temperatures reach 160 degrees can also reduce the potential for spontaneous combustion. Pile turning provides an opportunity for gases to escape and for the contents of the pile to cool. Adding moisture during turning will increase cooling. Controlling the amount of nitrogen- bearing (green) wastes in piles will also help to reduce the risk of fire. The less nitrogen in the piles the slower the decomposition process and consequently the less heat generated and gases released.

- Large piles should be kept away from wooded areas and structures and should be accessible to firefighting equipment, if a fire were to occur. Efforts should be made to avoid driving or operating heavy equipment on large piles because the compaction will increase the amount of heat build-up, which could increase the possibility of spontaneous combustion.

# APPENDIX I

# DEBRIS MANAGEMENT EQUIPMENT ASSETS

NDOT EQUIPMENT

| EQUIPMENT TYPE | QUANTITY |
|---|---|
| 6X6 ATV | 1 |
| BACKHOE, WITH LOADER | 4 |
| CHIPPER, PULL BEHIND | 6 |
| COMPRESSOR, TRAILER MOUNTED | 4 |
| CRANE | 1 |
| DOZER, STRAIGHT BLADE | 3 |
| EXCAVATOR | 1 |
| FARM TRACTOR | 19 |
| FLUSHER | 1 |
| FORKLIFT, INDUSTRIAL | 2 |
| GENERATOR | 1 |
| GRADER | 5 |
| GRINDER, STUMP | 1 |
| HYDRAULIC POWER UNIT | 1 |
| LIGHTING UNIT, PORTABLE | 1 |
| LOADER, RUBBER TIRE | 10 |
| LOADER, SKIDSTEER | 8 |
| SAW, PAVEMENT, SELF-PROPELLED | 2 |
| SEDAN | 13 |
| SPREADER, STONE | 2 |
| TRACKHOE | 1 |
| TRAILER 20FT BOX | 14 |
| TRAILER, DOUBLE DROP | 1 |
| TRAILER, DROP DECK | 1 |
| TRAILER, FLAT BED | 6 |
| TRAILER, FLAT BED, TILTING | 2 |
| TRAILER, GOOSENECK | 2 |
| TRAILER, IMPLEMENT TRANSPORT | 9 |
| TRAILER, LOWBOY | 1 |
| TRAILER, MOWER TRANSPORT | 2 |
| TRAILER, POLE TRANSPORT | 1 |
| TRAILER, VMS DISPLAY | 4 |
| TRUCK, ANIMAL CONTROL | 2 |
| TRUCK, ASPHALT PATCHING, CREW CAB | 7 |
| TRUCK, BUCKET LIFT, TREE SERVICE | 5 |
| TRUCK, CHIPPER | 2 |
| TRUCK, COMPACTOR, FRONT LOADING | 9 |
| TRUCK, COMPACTOR, REAR LOADING | 34 |
| TRUCK, COMPACTOR, SIDE LOADING | 10 |
| TRUCK, CONTAINER, ROLL OFF | 5 |
| TRUCK, DUMP, 10-11 CUBIC YARD | 27 |
| TRUCK, DUMP, 3-5 CUBIC YARD | 25 |
| TRUCK, DUMP, 6-7 CUBIC YARD | 3 |
| TRUCK, ELECTRICAL SERVICE | 9 |
| TRUCK, FLUSHER, STREET | 2 |
| TRUCK, GUARDRAIL POST DRIVER | 1 |
| TRUCK, KNUCKLE BOOM | 16 |

| EQUIPMENT TYPE | QUANTITY |
|---|---|
| TRUCK, PICKUP, 1 1/2 TON, UTILITY BODY | 6 |
| TRUCK, PICKUP, 1 TON | 5 |
| TRUCK, PICKUP, 1 TON, 4X4 | 1 |
| TRUCK, PICKUP, 1 TON, UTILITY BODY | 13 |
| TRUCK, PICKUP, 1/2 TON | 62 |
| TRUCK, PICKUP, 1/4 TON | 5 |
| TRUCK, PICKUP, 3/4 TON | 8 |
| TRUCK, PICKUP, 3/4 TON, FLAT BED | 1 |
| TRUCK, POLE AUGER | 1 |
| TRUCK, SWEEPER, STREET | 8 |
| TRUCK, TIRE RECYCLE | 1 |
| TRUCK, TRACTOR | 5 |
| WASHER, PRESSURE | 2 |

# PARKS AND RECREATION EQUIPMENT

| EQUIPMENT TYPE | QUANTITY |
|---|---|
| ALL TERRAIN CYCLE | 4 |
| ALL TERRAIN VEHICLE, PASSENGER | 13 |
| BLADE, PULL BEHIND | 1 |
| BLADE, PUSH | 2 |
| CHIPPER, PULL BEHIND | 2 |
| COMPRESSOR, TRAILER MOUNTED | 2 |
| FORKLIFT, INDUSTRIAL | 2 |
| GRINDER, STUMP | 1 |
| LOADER, SKIDSTEER | 8 |
| LOADER, TRACK | 1 |
| LOADER, TRACTOR, QUICK ATTACH | 1 |
| MAN LIFT | 2 |
| RAKE, SAND, RIDING | 7 |
| SEEDER, PULL | 2 |
| SOIL RELIEVER | 1 |
| SPRAYER, ROLL MOUNT | 3 |
| SPRAYER, TURF | 1 |
| SPREADER, FERTILIZER | 1 |
| TRACTOR BLOWER | 1 |
| TRACTOR, FARM | 52 |
| TRAILER, 16' | 1 |
| TRAILER, ANIMAL TRANSPORT | 2 |
| TRAILER, BOX VAN BODY | 2 |
| TRAILER, DISPLAY | 1 |
| TRAILER, FLAT BED | 14 |
| TRAILER, GOOSENECK | 4 |
| TRAILER, IMPLEMENT TRANSPORT | 6 |
| TRAILER, LOWBOY | 1 |
| TRAILER, MOWER TRANSPORT | 7 |
| TRUCK, BOX VAN BODY | 2 |
| TRUCK, COMPACTOR, REAR LOADING | 4 |
| TRUCK, COMPACTOR, SIDE LOADING | 1 |
| TRUCK, DUMP, 1-2 CUBIC YARD | 1 |
| TRUCK, DUMP, 3-5 CUBIC YARD | 4 |
| TRUCK, DUMP, 3-5 CUBIC YARD, CREW CAB | 1 |
| TRUCK, DUMP, 8-9 CUBIC YARD | 1 |
| TRUCK, DUMP, OFF ROAD | 1 |
| TRUCK, LANDSCAPE, CREW CAB | 13 |
| TRUCK, PICKUP, 1 1/2 TON | 2 |
| TRUCK, PICKUP, 1 1/2 TON, EXTENDED CAB | 1 |
| TRUCK, PICKUP, 1 1/2 TON, FLAT BED | 4 |
| TRUCK, PICKUP, 1 1/2 TON, UTILITY BODY | 4 |
| TRUCK, PICKUP, 1 TON | 5 |
| TRUCK, PICKUP, 1 TON, CREW CAB | 3 |
| TRUCK, PICKUP, 1 TON, DUMP | 2 |

| EQUIPMENT TYPE | QUANTITY |
|---|---|
| TRUCK, PICKUP, 1 TON, EXTENDED CAB | 1 |
| TRUCK, PICKUP, 1 TON, FLAT BED | 3 |
| TRUCK, PICKUP, 1 TON, FLAT BED, DUMP | 2 |
| TRUCK, PICKUP, 1 TON, UTILITY BODY | 1 |
| TRUCK, PICKUP, 1/2 TON | 6 |
| TRUCK, PICKUP, 1/2 TON, EXTENDED CAB | 9 |
| TRUCK, PICKUP, 1/4 TON | 1 |
| TRUCK, PICKUP, 3/4 TON | 4 |
| TRUCK, PICKUP, 3/4 TON, EXTENDED CAB | 9 |
| TRUCK, SERVICE BODY, 1 TON, GLASS | 1 |
| TRUCK, SPORT UTILITY, 1/2 TON, 4 DOOR | 5 |
| TRUCK, SPORT UTILITY, 1/4 TON | 1 |
| TRUCK, SPORT UTILITY, 1/4 TON, 4 DOOR | 2 |
| TRUCK, STAKE BODY, FLAT BED | 1 |
| TRUCK, STAKE BODY, FLAT BED, CREW CAB | 1 |
| TRUCK, TANKER | 1 |
| TRUCK, TRACTOR | 1 |
| TRUCK, TREE SERVICE | 2 |
| UTILITY VEHICLE | 2 |

# APPENDIX J

# HEALTH AND SAFETY STRATEGY

## Health and Safety Strategy

### A. Purpose

The purpose of this health and safety strategy is to supplement existing Metro Nashville safety guidelines with regard to debris removal activities. These are recommended baseline safety provisions. Ultimately, the health and safety of workers is the responsibility of the agencies and contracted parties involved in debris removal activities, but oversight and guidance with health and safety regulations will be conducted by assigned Health and Safety Officers. This document will outline some of the general steps necessary to provide a safe work environment for all employees involved in debris removal. In addition, this document will identify some representative work hazards and the appropriate measures to reduce risk of injury.

### B. Dissemination of Information

The contract project managers and agencies involved will be provided with this document and will be expected to disseminate the information and guidelines to their respective personnel. A copy of the document should be available for consultation. In addition, elements of the document will be reviewed periodically during the project to increase worker awareness.

### C. Compliance

The contract project managers and agencies involved are responsible for health and safety compliance of their respective personnel and/or subcontractors. Oversight of compliance by the Health and Safety Officer assigned will assure that any crews or individuals that are not compliant shall be suspended from debris removal activities until the situation is remedied. Frequent offenders of safety policies and procedures will be dismissed from the project entirely.

### D. Job Hazard Assessment

Though debris removal activities are fairly similar among events, assessing the particular hazards of each disaster is an important part of maintaining health and safety for the debris removal workers. At a minimum, the following areas of focus should be considered as part of job hazard assessment:

- **Disaster Debris** – Disasters that result in property damage typically generate large quantities of debris, which must be collected and transported for disposal. The type of debris varies depending on the characteristics of the region (e.g., terrain, climate, dwelling and building types, population, etc.) and the debris-generating event (e.g. type, event strength, duration, etc.). In addition, the disaster debris produces a host of uneven surfaces, which must be negotiated.

- **Debris Removal** – Often the removal of disaster debris involves working with splintered, sharp edges of vegetative or construction material debris. Many disasters involve heavy rains or flooding. Consequently, disaster debris is damp and heavier than usual. As weights increase, so does the risk of injury.

- **Removal Equipment** – In most disasters, debris must be removed from the public right-of-way (ROW) to provide access for emergency vehicles and subsequent recovery efforts. Debris collection and removal requires the use of heavy equipment and power tools to trim, separate and clear disaster debris.

- **Traffic Safety** – The ROW is located primarily on publicly maintained roads. As a result, much of the debris removal process takes place in traffic of varying levels of congestion. In addition, disasters often damage road signs, challenging safety on the road.

- **Wildlife Awareness** – Disasters are traumatic events for people as well as wildlife. Displaced animals, reptiles and insects pose a hazard to debris removal workers.

- **Debris Disposal** – After disaster debris is collected, it is often transported to a Debris Management Site (DMS). Upon entry to a DMS, the monitoring firm will assess the volume of disaster debris being transported. The collection vehicle will then dispose of the disaster debris and the debris will be reduced either through a grinding operation or incineration. The DMS is a common area for injury. Response and recovery workers in this environment are more likely to be exposed to falling debris, heavy construction traffic, noise levels, dust and airborne particles from the reduction process.

- **Climate** – Debris generating disasters often occur in areas or seasons with extreme weather conditions. The effects of temperature and humidity on physical labor must be monitored, and proper work-rest intervals must be assessed.

## E. Administrative and Engineering Controls

The use of administrative and engineering controls can greatly reduce the threats to public health and safety in debris removal activities. Some common administrative and engineering controls used in the debris removal process are:

- **Collection Operations**

  - Conduct debris removal operations during daylight hours only.
  - Limit cleanup operations to one side of the road at a time.
  - Limit collection work under overhead lines.
  - Inspect piles before using heavy equipment to remove them to ensure that there are no hazardous obstructions.
  - Make sure that all collection vehicles have properly functioning lights, horns, and backup alarms.

- Load collection vehicles properly (not overloaded or unbalanced).
- Cover and secure loads, if necessary.
- When monitoring the collection process, stay alert in traffic and use safe driving techniques.

➢ **Power Tools**

- Inspect all power tools before use.
- Do not use damaged or defective equipment.
- Use power tools for their intended purpose.
- Avoid using power tools in wet areas.

➢ **Debris Reducing Machinery (Grinders/Wood Chippers)**

- Do not wear loose-fitting clothing.
- Follow the manufacturer's guidelines and safety instructions.
- Guard the feed and discharge ports.
- Do not open access doors while equipment is running.
- Always chock the trailer wheels to restrict rolling.
- Maintain safe distances.
- Never reach into operating equipment.
- Use lock out/tag out protocol when maintaining equipment.

➢ **DMS/Disposal Operations**

- Use jersey barriers and cones to properly mark traffic patterns.
- Use proper flagging techniques for directing traffic.
- Monitor towers must not exit into traffic and should have hand and guard rails to reduce trips and falls.
- Monitor towers must have properly constructed access stairways with proper treads and risers and proper ascent angle (4:1 height/width ratio).
- Monitor towers must be surrounded by jersey barriers that protect the tower and monitors from being struck by inbound or outbound collection vehicles.
- Monitor towers should be located upwind from dust- and particulate generating activities.
- A water truck should spray the site daily to control airborne dust and debris.

## F. Personal Protective Equipment

Personal Protective Equipment (PPE) is the last resort to providing a safe working environment for workers. PPE does not eliminate or even reduce hazards as administrative and engineering controls do. PPE works to reduce the risk of injury by creating a protective barrier between the individuals and work place hazards. Proper

use of PPE includes using PPE for its intended purpose. For example, using the wrong type of respirator might expose the worker to carcinogenic particulates. Properly fitting the equipment to the user may require examination by a medical professional. PPE that does not fit well will not provide maximum protection and will decrease the likelihood of the individual continuing to use the equipment. In addition, improper use may result in serious injury or death. The proper use of the equipment is outlined in detail in the manufacturer's instructions. The following PPE may be applicable in standard ROW, Right-of-Entry (ROE), and vegetative and construction & demolition debris removal activities:

- **Head Protection** – Equipment designed to provide protection for an individual's head against hazards such as falling objects or the possibility of striking one's head against low hanging objects. PPE used to protect the head must comply with ANSI Z89.1-1986, "American National Standard for Personnel Protection – Protective Headwear for Industrial Workers – Requirements."

- **Foot Protection** – Equipment designed to provide protection for an individual's feet and toes against hazards such as falling or rolling objects, objects that may pierce the sole or upper section of the foot, etc. PPE used to protect the feet and toes must comply with ANSI Z-41-1991, "American National Standard for Personal Protection – Protective Footwear."

- **Hand Protection** – Equipment designed to provide protection for an individual's hands against hazards such as sharp or abrasive surfaces. The proper hand protection necessary depends on the situation and characteristics of the gloves. For instance, specific gloves would be used for protection against electrical hazards while the same gloves may not be appropriate in dealing with sharp or abrasive surfaces.

- **Vision/Face Protection** – Equipment designed to provide protection for an individual's eyes or face against hazards such as flying objects. PPE used to protect eyes and face must comply with ANSI Z87.1-1989, "American National Standard Practice for Occupational and Educational Eye and Face Protection." Again, the proper eye/face protection necessary depends on the situation and characteristics of the equipment. For instance, eye and face protection used by individuals who are welding may not be appropriate for individuals operating a wood chipper.

- **Hearing Protection** – Equipment designed to provide protection for an individual's hearing against prolonged exposure to high noise levels. According to OSHA, the permissible level of sound is an average of 90 decibels over the course of an eight (8) hour workday. Above the sound exposure level, hearing protection is required. PPE used to protect hearing must comply with ANSI S3.19-1974, "American National Standard Practice for Personal Protection – Hearing Protection."

- **Respiratory Protection** – Equipment designed to provide protection for an individual's respiratory system against breathing air contaminated with hazardous gases, vapors, airborne particles, etc. PPE used to protect the respiratory system must comply with ANSI Z88.2-1992. In addition, the use of respiratory protection requires a qualitative fit test and in some cases a pulmonary fit test by a licensed medical professional.

## G. PPE Debris Removal Activity

PPE requirements are made based upon the results of the job hazards assessment. The following list of PPE is organized by debris removal activity and is meant to be a representative list. Specific PPE requirements vary from location to location. In general, individuals involved in the debris removal process should personally monitor water consumption to avoid dehydration and use appropriate skin protection (breathable clothes, light colors, sunscreen, etc.). Ultimately, the selection of PPE is the responsibility of the monitoring firm, debris removal contractors' project managers, and other agencies involved.

- **Debris Collection Monitoring**

The hazards of disaster debris collection monitoring include, but are not limited to:

- Being struck by vehicles
- Falls or trips on uneven surfaces
- Cuts, abrasions or punctures from vegetative or C&D sharps

PPE requirements include:

- Reflective vest
- Foot protection (rugged shoes or boots, steel toe and shank if required)
- Long pants.

- **Debris Disposal Monitoring**

Monitor towers must be equipped with a first aid kit and some of the hazards of disaster debris disposal monitoring include, but are not limited to:

- Being struck by or caught in/between vehicles
- Falls or trips on stairs or uneven surfaces
- Cuts, abrasions or punctures from vegetative or C&D sharps
- Being struck by falling disaster debris.

PPE requirements include:

- Reflective vest
- Foot protection (rugged shoes or boots, steel toe if required)
- Long pants
- Hard Hat.

- **Debris Removal**

The hazards of disaster debris removal include, but are not limited to:

- Being struck by vehicles
- Falls or trips on uneven surfaces
- Cuts, abrasions or punctures from vegetative or C&D sharps and airborne debris

PPE requirements include:

- Reflective vest
- Vision and hearing protection
- Foot protection (rugged shoes or boots, steel toe and shank if required)
- Long pants

➢ **Debris Disposal and Reduction**

The hazards of disaster debris disposal and reduction include, but are not limited to:

- Being struck by or caught in/between vehicles
- Falls or trips on uneven surfaces
- Cuts, abrasions or punctures from vegetative or C&D sharps
- Being struck by falling disaster debris and airborne particles

PPE requirements include:

- Reflective Vest
- Foot protection (rugged shoes or boots, steel toe if required)
- Vision and hearing protection
- Long pants
- Hard hat

➢ **Debris Cutting and Trim Work**

The hazards of disaster debris cutting and trimming work include, but are not limited to:

- Being struck by or caught in/between vehicles
- Falls or trips on uneven surfaces
- Cuts, abrasions or punctures from power tools, vegetative or C&D sharps
- Being struck by falling disaster debris and airborne particles

PPE requirements include:

- Reflective vest
- Hand and foot protection (rugged shoes or boots, steel toe if required)
- Vision and hearing protection
- Long pants
- Gloves
- Hard hat

## Health and Safety Contact Information

For additional information regarding health and safety requirements, please contact OSHA at:

1-800-321-6742
https://www.osha.gov

# APPENDIX K

# DEBRIS REMOVAL APPLICANT CONTRACTING CHECKLIST

FEMA

RECOVERY DIVISION

# FACT SHEET

RP9580.201

# DEBRIS REMOVAL

## APPLICANT'S CONTRACTING CHECKLIST

### Overview

To be eligible for reimbursement under the Public Assistance Program, contracts for debris removal must meet rules for Federal grants, as provided for in 44 CFR Part 13.36 *Procurement* (http://www.access.gpo.gov/nara/cfr/waisidx_04/44cfr13_04.html). Public Assistance applicants should comply with their own procurement procedures in accordance with applicable State and local laws and regulations, provided that they conform to applicable Federal laws and standards identified in Part 13. The following guidance is provided to assist Public Assistance applicants in the procurement process.

### Contracting Process Checklist

Use competitive bidding procedures. Complete and document a cost analysis to demonstrate price reasonableness on any contract or contract modification where adequate price competition is lacking, as detailed in 44 CFR 13.36(f).

Provide a clear and definitive scope of work and monitoring requirements in the request for proposals/bids. Use acceptable emergency contracting procedures that include an expedited competitive bid process only if time does not allow for more stringent procedures.

Require bidders to provide copies of references, licenses, financial records, and proof of insurance and bonding.

Obtain review from your legal representative of your procurement process and any contract to be awarded to ensure they are in compliance with all Federal, State, and local requirements.
Document procedures used to obtain/award contracts (procurement information, bid requests and tabulations, etc).
Use load ticket requirement to record with specificity (e.g., street address) where debris is picked up and the amount picked up, hauled, reduced and disposed of.
***FEMA will, when requested by applicants, assist in the review of debris removal contracts. However, such a review does not constitute approval.***

FEMA

RECOVERY DIVISION

# FACT SHEET

RP9580.201

# DEBRIS REMOVAL

## APPLICANT'S CONTRACTING CHECKLIST

### Contract Provisions Checklist

**All contracts must contain/reflect the following provisions:**

All payment provisions must be based on unit prices.

No payments may be based on time and material costs unless limited to work performed during the first 70 hours of actual work following a disaster event.

That payment will be made only for debris that FEMA determines eligible, referencing FEMA regulations and Public Assistance guides and fact sheets. (This is an optional provision to protect the applicant, and is used only following a major disaster declaration.)

An invoice provision requiring contractors to submit invoices regularly and for no more than 30-day periods.

A "Termination for Convenience" clause allowing contract termination at any time for any reason.

A reasonable limit on the period of performance for the work to be done.

A subcontract plan including a clear description of the percentage of the work the contractor may subcontract out and limiting use of subcontractors to only those you approve.

The preference that the contractor use mechanical equipment to load and reasonably compact debris into the trucks and trailers.

The requirement that the contractor provide a safe working environment, including properly constructed monitoring towers.

Option of a unit price for extracting from ground and removing FEMA-eligible stumps (only for stumps with diameters larger than 24 inches, measured 24 inches above the ground, and with 50% or more of the root ball exposed), or including all stumps in the unit price.

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# FACT SHEET

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# DEBRIS REMOVAL

## APPLICANT'S CONTRACTING CHECKLIST

### Contract Provisions Checklist – Continued

**All contracts must contain/reflect the following provisions:**

Requirement that all contract amendments and modifications be in writing.

Requirement that contractor obtain adequate payment and performance bonds and insurance coverage.

### Pre-Disaster and Stand-By Contracts Checklist

It is recommended that you pre-qualify contractors prior to an event and solicit bid prices from this list of contractors once an event has occurred.

The solicitation for pre-qualifying contractors must adequately define in the proposed scope of work all the potential types of debris, typical haul distances, and size of events for which a contract may be activated.

To ensure reasonable debris removal costs, award debris removal contracts based on unit prices (volume or weight).

If the contract is awarded on a time and material basis, it should be limited to no more than 70 hours of actual clearance and removal operations.

After the initial 70-hour period, payment should be on a unit price basis (volume or weight).

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# DEBRIS REMOVAL

## APPLICANT'S CONTRACTING CHECKLIST

### Avoidance Checklist

**DO NOT:** Award a debris removal contract on a sole-source basis.

**DO NOT:** Sign a contract (including one provided by a contractor) until it has been thoroughly reviewed by your legal representative.

**DO NOT:** Allow any contractor to make eligibility determinations, since only FEMA has that authority.

**DO NOT:** Accept any contractor's claim that it is "FEMA certified." FEMA does not certify, credential, or recommend debris contractors.

**DO NOT:** Award a contract to develop and manage debris processing sites unless you know it is necessary, and have contacted the State for technical assistance concerning the need for such operations. Temporary debris storage and reduction sites are not always necessary.

**DO NOT:** Allow separate line item payment for stumps 24 inches and smaller in diameter; these should be treated as normal debris.

**DO NOT:** "Piggyback" or utilize a contract awarded by another entity. Piggybacking may be legal under applicable state law; however, the use of such a contract may jeopardize FEMA funding.

**DO NOT:** Award pre-disaster/stand-by contracts with mobilization costs or unit costs that are significantly higher than what they would be if the contract were awarded post-disaster. Such contracts should have variable mobilization costs depending upon the size of the debris work that may be encountered.