Managing Solid Wastes in Transportation Projects

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SOLID WASTE SECTION

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Solid Waste Section

Regulates safe management of solid waste through technical assistance, regulations, permitting, environmental monitoring, compliance evaluation and enforcement.

Waste types regulated involved in transportation projects:

- Construction and demolition wastes
- Land-clearing waste
- Scrap tires
- Asphalt shingles
- Glass
- CCB
Beneficial Fill
Types of Materials
Rule

- Inert Debris Only - unpainted concrete, brick, concrete block, uncontaminated soil, rock, and gravel
- No exposed rebar
- 15A NCAC 13B .0562
- NCGS allows used asphalt
- No excavation
- Improve potential land use/other approved use
- Not exempt from other local, state or federal law/rule (zoning, erosion control, stormwater, etc)
- Cannot contravene 2L standards
Beneficial Fill

Non-Hazardous Painted Materials

- Painted materials (brick, concrete, etc) must meet unrestricted use standards to be used as fill.
- Multi-step process to meet Unrestricted Use
  - Perform Totals Analyses (8 RCRA Metals) and compare to IHSB Soil Remediation Goals table
    - [Link to IHSB Soil Remediation Goals](http://portal.ncdenr.org/web/wm/sf/ihs/ihsguide)
  1. Pass Residential Health Based Soil Remediation and Protection of Groundwater = Unrestricted Use
  2. Pass Residential Health Based Soil Remediation but fail Protection of Groundwater = must perform SPLP or TCLP and compare to 2L. If Below 2L, then unrestricted use
- Either scenario allows for use as fill
- Anything failing the residential health based goal or 2L must go to permitted landfill (C&D or MSW)

*Process is subject to change due to law/rule changes.*
• Grinding of used concrete/asphalt for re-use as aggregate or fill doesn’t require permit/approval
• If painted, should meet same unrestricted use standard as beneficial fill

• Asphalt shingles
  2. DAQ plant permit – requires source separation and asbestos testing
Re-Use /Recycling

Other approved uses:
Scrap tires
Glass

- Scrap tires
  1. Traffic Drum base
  2. Embankment/Retaining wall fill: Chipped tires preferable to whole tires due to movement over time
  3. Rubber Mulch
  4. Asphalt mix additive

- Glass
  1. Pavement Markers
  2. Aggregate base
  3. Sub-drain fill
Management of Land Clearing Debris (LCD)

On-Site / Project

Off-Site / Project

• .0563(5) - LCD generated within NCDOT Project ROW can be disposed in Project ROW as long as:
  1. Disposal area less than 2 acres in size
  2. Meets .0564 siting requirements, except zoning

• LCD generated as part of NCDOT project does not require permit/approval for grinding within project boundaries.

• DAQ permit to burn LCD

• Disposal and/or wood grinding operations outside the project boundaries (i.e. County Maintenance Yard) are subject to Solid Waste permitting/approval requirements
Use of CCB is regulated under 15A NCAC 13B .1700

Written notification of the Division is required 30 days prior to fill project start.

a. Should be noted in NCDOT construction plans and plans maintained for review.

b. DWM and DOT may agree on specific design and construction criteria depending on project.

c. DOT must submit certification to the Division within 30 days of completion of project noting rules have been followed. Must be signed by PE or Sec. of DOT.

Does not require permit if used/approved by NCDOT for traction control or road surface material.
Other Solid Waste Items of Importance

- Construction and Demolition wastes (minus inert materials) generated as part of DOT projects must be disposed at an DWM permitted facility, not used as fill in reclaiming borrow sites.
- Animal mortality encountered on DOT roads must be disposed at an DWM permitted facility.
- No permit is required to grind debris to clear roads for travel or utility maintenance, however the stockpiling of debris on DOT owned/controlled or other properties is subject to DWM approval. This is the same during normal business and emergency/disaster response scenarios.
- All information contained in this presentation is valid at the date of the presentation. It is subject to re-evaluation and modification as laws, rules, and/or policy changes occur.
- If you have any questions or need assistance in locating disposal sites, please contact the Environmental Sr. Specialist for the county in which the DOT project is to occur.
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