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**APPROVED**

**DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION**

Date 12/18/2015 By Patricia M. Backus

**DIN 24922**

**Attachment 1 Part VI Document 7  
Permit ~~3503-TRANSFER~~ Permit DIN ~~25114~~**

## Permit Amendment Application

# FRANKLIN COUNTY SOLID WASTE HANDLING & TRANSFER FACILITY

**Permit No. 35-03T**

10 Landfill Road  
Franklinton, NC 27525

**Submitted: June 7, 2010  
Revised: August 20, 2015**

**Prepared by:**

Franklin County  
Department of Solid Waste  
113 Market Street  
Louisburg, NC 27549  
919-496-5002

**FRANKLIN COUNTY SOLID WASTE DEPARTMENT  
113 MARKET STREET  
LOUISBURG, NORTH CAROLINA 27549**

Friday, August 20, 2015

Edward F. Mussler III, P.E.  
NCDENR  
Division of Waste Management  
1646 Mail Service Center  
Raleigh, NC 27699-1646

To: Ed Mussler.

I would like to request a renewal for the permit for the Franklin County Transfer Station (Permit #35-03). I have attached the updated Operation Plan for this facility.

Please inform me of any additional items that are required.

Thank you.

Sincerely,

*John G. Faulkner*

John G. Faulkner  
Solid Waste Manager

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## **1. GENERAL INFORMATION**

### **1.1. Introduction**

This permit amendment application was prepared by the Franklin County Department of Solid Waste for the continued operation of the Franklin County Solid Waste Handling and Transfer Facility (Permit 35-03T). Operations at this facility will be conducted in agreement with the Operation Plan, the North Carolina Solid Waste Management Rules (15A NCAC 13B), the conditions of the permit, and generally sound environmental and waste management practices.

The facility is owned and operated by the County of Franklin and is located adjacent to the closed Franklin County Municipal Solid Waste Landfill (MSWLF) (Permit 35-01) on Landfill Road in Franklinton, North Carolina. The facility accepts municipal solid waste (MSW), as defined in G.S. §130A-290(a)(18a), from sources within Franklin County. Hauling and disposal services are performed by Republic Waste under a contract with the county. Bowen, a subcontractor to Republic Waste, transports the waste primarily to the Upper Piedmont Regional Landfill (Permit 73-04) in Rougemont, North Carolina, but may also transport the waste to other lined, permitted MWSLF for disposal.

In addition, the facility operates several other services at the site including the collection and management of yard waste, white goods, used motor oil, and recyclables.

Zoning approval, as well as approval to discharge wastewater effluent into the Franklin County sewer system, was acquired when the MSW transfer facility was originally permitted in 1993.

### **1.2. Facility Location**

The Franklin County MSW Transfer Facility is located in Franklinton, North Carolina, approximately five miles southwest of Louisburg, North Carolina on Landfill Road (SR 1153) near its intersection with Timberlake Road (SR 1109).

The physical address is as follows:

Franklin County Solid Waste Transfer Station  
10 Landfill Road  
Franklinton, N.C. 27525

The mailing address is as follows:

Franklin County Solid Waste Transfer Station  
113 Market Street  
Louisburg, N.C. 27549

### **1.3. Facility Owner**

The facility is owned and operated by Franklin County. The key contact for the facility and its operation is:

John Faulkner, Solid Waste Director  
113 Market Street  
Louisburg, N.C. 27549  
Telephone (919) 496-5002  
Email: JFaulkner@franklincountync.us

## **2. OPERATION PLAN**

(The operation plan begins on the next page.)

# **Operation Plan**

## **FRANKLIN COUNTY SOLID WASTE HANDLING & TRANSFER STATION**

**Permit No. 35-03T**

10 Landfill Road  
Franklinton, NC 27525

**Submitted: June 7, 2010  
Revised: August 20, 2015**

**Prepared by:**

Franklin County  
Department of Solid Waste  
113 Market Street  
Louisburg, NC 27549  
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## **1. FACILITY INFORMATION**

The Franklin County Solid Waste Handling and Transfer Facility is a permitted solid waste management facility owned and operated by the County of Franklin. It is located adjacent to the closed Franklin County Landfill on Landfill Road approximately five miles southwest of Louisburg, North Carolina.

The municipal solid waste (MSW) transfer structure is a metal building constructed on a concrete slab with a retaining wall. It was constructed as a replacement for former transfer station and began operation in 2005. The building is enclosed on three sides, keeping one open facade that provides accessibility for incoming vehicles. One of the enclosed sides provides an entrance for residential vehicles to the tipping floor. The tipping floor encompasses an area of approximately 10,000 square feet (100 feet by 100 feet). Transfer trailers are positioned in a loading bay under the tipping floor. Incoming loads are discarded onto the concrete tipping floor where they are compacted into the transfer trailers in the lower level floor. Any solid waste not removed from the transfer station is stored in an enclosed transfer trailer overnight.

Wastewater that is generated from normal activities and from regular washing of the tipping floor is directed to the drains in the lower level floor. These drains empty into on-site holding tanks. The tanks are pumped out by a licensed septage hauler and the wastewater transported to the Franklin County Waste Water Treatment Plant.

Several areas are designated within the county-owned property for the collection and management of specific wastes such as yard waste, white goods, used motor oil, and recyclables. The transfer station and collection areas are shown on the Site Plans.

## **2. SOURCE, TYPE, AND QUANTITY OF WASTE**

The facility accepts MSW and Commingled Recycling from residential, commercial, and industrial sources within Franklin County. Most of the waste is consolidated in trailers for transport to and disposal at lined, permitted municipal solid waste landfills. Republic Waste, a contractor with the county for waste hauling disposal services, primarily transports the MSW to the Upper Piedmont Regional Landfill in Rougemont, North Carolina, Permit #7304-MSWLF-1997, but has the option to choose another lined, permitted MSWLF for disposal. Republic Waste uses a subcontractor, Bowen, for the actual hauling of the solid waste and the commingled recycling.

In addition, the facility provides several other services at the site including the collection and management of yard waste, white goods, used motor oil, used motor oil filters, antifreeze and recyclables. The acceptance and transport of these wastes is based on the waste type and is described in the Operations Description section of this plan.

From July 1, 2014, through June 30, 2015, 34,233.76 tons of waste and 1,541.27 tons of commingled recycling was accepted at the Franklin County Transfer Station. This rate

is expected to remain constant, but will increase proportionally as the population of Franklin County increases.

### **3. HOURS OF OPERATION**

The Franklin County Transfer Station is open Monday through Friday from 7:00 AM until 3:30 PM and on Saturday from 7:00 AM to 1:00 PM. The scale house and office are open during standard operation hours. The facility is closed for observance of the following holidays: Thanksgiving, Christmas, and New Year's Day.

### **4. OPERATIONS DESCRIPTION**

Waste and commingled recycling arrives at the facility in publicly and privately owned vehicles of various types and sizes. Vehicles are weighed upon entering and leaving the facility unless the weight of the empty vehicle is known. The weights are recorded for bookkeeping purposes and to ensure that no overloaded vehicles enter NC roads. Weight records are maintained at the facility and are used to prepare annual reports submitted to NCDENR, Division of Waste Management, Solid Waste Section.

From the scale house, the waste and the commingled recycling is taken to the appropriate area based on the waste type as indicated on the Site Plans. A two-lane, all-weather access road is maintained between the scale house and other structures and signs are posted directing traffic to the proper area for placement of their respective material. The handling and management of the wastes accepted at the facility is described below.

#### **4.1. Municipal Solid Waste**

MSW is taken to the metal transfer station building. Vehicles back up to the building's loading bay and unload the waste onto the concrete tipping floor. A visual inspection is performed by the transfer station attendant to ensure only authorized waste is accepted. If unsuitable waste is found, appropriate action is taken. Transfer trailers are placed in the loading bay below the tipping floor. A wheel loader gathers and moves the waste into the transfer trailer in the loading bay. Once full, the transfer trailer is removed and replaced with an empty trailer. Hauling and disposal services are performed by Republic Services under a contract with the county. Bowen, a subcontractor to Republic Waste, transports the waste primarily to the Upper Piedmont Regional Landfill in Rougemont, North Carolina, but may transport the waste to other lined, permitted MWSLF for disposal. The operator keeps a log of all the daily activities.

#### **4.2. Commingled Recycling**

Commingled recycling is taken to the metal transfer station building. Vehicles back up to the building's loading bay and unload the waste onto the concrete tipping floor. A visual inspection is performed by the transfer station attendant to ensure only authorized commingled recycling is accepted. The accepted/authorized recyclables include newspapers, magazines, mixed paper, white paper, food boxes, corrugated cardboard, glass bottles/jars, plastic bottles/jugs, aluminum cans/pans, steel/tin food cans and other

mixed plastics (3-7). If unsuitable commingled recycling is found, appropriate action is taken. Transfer trailers are placed in the loading bay below the tipping floor. A wheel loader gathers and moves the commingled recycling into the transfer trailer in the loading bay. Once full, the transfer trailer is removed and replaced with an empty trailer. Hauling and disposal services are performed by Republic Services under a contract with the county. Bowen, a subcontractor to Republic Waste, transports the commingled recycling primarily to the Recycle America Facility in Raleigh, North Carolina. The operator keeps a log of all the daily activities.

#### 4.3. Tires

The former transfer station is used for tire collection. Tires are deposited on the concrete floor and pushed into a trailer on a daily basis. When the trailer is full, the county contacts Central Carolina Holdings for disposal of the tires and replacement of the trailer. Trailers full of tires are removed on an average 1.5 times per week; regardless, every trailer is removed within 5 days.

#### 4.4. Beneficial Fill

Franklin County collects inert material used for a beneficial fill in a designated area at the back of the closed landfill site. The inert materials for the fill area include concrete, brick, concrete block, uncontaminated soil, rock and gravel. This area was the old borrow area for the MSW landfill. The fill will be used to bring the area back to its natural elevation.

#### 4.5. Recyclables

The recycling/drop-off area consists of rolloff and front-end containers. They are labeled for the collection of newspaper, magazines, plastic bottles/jugs, aluminum/metal/steel cans, and clear/brown/green glass. On average, these are removed on a weekly basis or as needed.

#### 4.6. Used Lead-Acid Batteries

Used lead-acid batteries are collected in a designated location. The batteries are stored on a wooden/plastic pallet near the front entrance. In general, the batteries are removed once a month.

#### 4.7. Used Oil

Used oil is collected in an above ground 500-gallon steel tank and stored until it is removed for proper disposal. The oil level in the tank is monitored daily and the levels kept in a log book. The oil is scheduled to be removed from the site on a bi-monthly basis; however, if needed, the oil is removed earlier than scheduled. When the tank is emptied, it is also noted in the log book.

#### 4.8. Used Oil Filters

Used oil filters are collected in 55 gallon drums. Full drums are switched out as needed.

4.9. Used Antifreeze

Used antifreeze is collected in 55 gallon drums and is removed by the same company that services the used motor oil. Full containers are emptied as needed.

4.10. Used metals, appliances, and white goods

Old metal materials and appliances are collected in an area designated for metals (See site plan). These materials are generally processed and removed every three months or as needed. White goods, which contain Freon, are collected and stored in a separate designated area in the metal storage area. The handling and disposal of these items are governed by 40 CFR 82 "Protection of Stratosphere Ozone". The Freon is removed by a contractor typically every four months or prior to disposal whichever occurs first. The contractor generates a report that states how many units were checked and how much Freon was removed. The same contractor then removes all the metals from the site including the white goods and a report generated stating the tonnage of metal waste removed.

4.11. Old Corrugated Cardboard

Old corrugated cardboard is collected in designated roll-off containers, until proper recycling can take place. Typically cardboard is removed on a weekly basis, or as required.

4.12. Yard Waste

Yard waste such as, brush, limbs, tree trunk and other debris (including pallets/clean lumber) is collected in an area located at the entrance of the facility. All yard waste will be windrowed in the middle of the storage area until ground. All yard waste is ground up twice a year and it is used for boiler fuel. There will be emergency access between and around all piles.

## 5. EQUIPMENT

The equipment used at the MSW Transfer Station is owned and operated by Franklin County. County personnel conduct preventive and other maintenance to ensure the equipment remains in good operational condition. The following equipment is used at the transfer station:

- 1 CAT-928F Wheel Loader
- 1 CAT 930H Wheel Loader
- 1 CASE-621D Wheel Loader
- 7 Open-Top Transfer Trailers
- 3 Road Tractors
- 1 Yard Tractor
- 2 Roll-off Truck
- 1 Flatbed Truck

The three wheel loaders collect the waste or commingled recycling from the transfer station's tipping floor, and then the waste or commingled recycling is compressed and loaded into trailers located in the lower level of the transfer station. Based on the current waste or commingled recycling volume rates, the transfer station can be managed with three wheel loaders and the yard tractor. However, if the rates increase substantially, the county will rent another loader for the duration of the increased volume or until another loader is acquired (if high rates persist).

## **6. PERSONNEL AND TRAINING**

County staff will be present at the scale house to weigh vehicles in and out. Staff will also be stationed at the transfer areas to oversee operations to ensure no hazardous or prohibited waste enters the transfer facility. A certified Transfer Station Operation Specialist will be present at the site during normal operating hours.

All employees are routinely trained in safety issues such as recognizing and managing hazardous waste, fire prevention and firefighting, and other emergency and safety related topics. A qualified person will conduct training. First aid supplies and training will be provided in the facility. All employees are required to immediately report all work-related injuries and illnesses. All staff members are provided with the necessary safety equipment including gloves, dust masks, safety shoes, earplugs, safety glasses, and related protective items.

Anyone working at the scale house and/or transfer station will be trained to identify suspicious, hazardous and unacceptable wastes based on visual and odor characteristics. The Operations Manager or any personnel trained to identify and manage hazardous and liquid wastes will administer inspections.

## **7. WASTEWATER MANAGEMENT**

The tipping floor is cleaned daily by using a rubber attachment on the loader blade and use of the water from the fire hydrant. Wastewater generated as a result of daily operations and periodic cleaning of the facility is sent to a drain in the lower loading bay. These drains are piped into a series of solids and grease/oil separators prior to entering the on-site holding tank. The holding tank is pumped out monthly and hauled to the Franklin County Wastewater Treatment Plant.

## **8. HAZARD AND NUISANCE CONTROL**

Hazard and nuisance control for a MSW transfer station is vital for proper management and efficient operation. The attributing factors to any waste transfer process include preventing prohibited or unauthorized waste materials, fire, odors, disease, vectors, noise, dust, and litter. The material screening process conforms to NCAC 15A 13B .0302(2). Key elements of this plan consist of:

- Training of facility personnel to recognize regulated hazardous and unacceptable waste, including asbestos materials.
- Visual inspection of each load that comes into the facility, as well as random checks of loads.
- A contingency plan to correctly manage any proscribed waste.

#### 8.1. Waste Inspection

Visual inspections of each truckload are made at the scale, during unloading of their shipment onto a concrete pad, and before loading onto the processing area. The truck and driver will be detained if objectionable material is found during the unloading process.

Random load inspections will be performed to abide by the minimum requirement of 1% screening of waste. This percentage can be raised depending on the type and nature of the incoming waste.

Methodology for choosing the loads to be examined will be based on:

- The probability that a load may contain proscribed waste based on type of business served or type of hauler involved.
- A random selection process that will ensure any load can be checked.
- The ability to distinguish and check “suspicious” loads.

The shipment will be examined for the following prohibited and/or hazardous waste:

- Asbestos containing material
- Containers with hazardous labels or markings
- Container with liquids, oils, paints, varnishes, etc.
- Drums or commercial sized containers
- Material with “chemical odors”, dust, powders, smoke, or vapors
- Materials with bright or unusual colors
- Regulated biochemical waste
- Sludges, biomass, etc.
- Waste banned from landfill disposal by North Carolina statute

#### 8.2. Fire

The MSW transfer station and associated buildings are equipped with fire extinguishers. Qualified personnel will conduct routine inspections of the fire prevention equipment. A qualified person will train all staff members in effective fire fighting procedures and fire prevention. There shall be no flammable liquids stored in or around the MSW Transfer Station. A hose and water supply will be provided inside the facility for fire fighting measures, and in the case of a fire, the local Fire Department will be contacted by calling 911.

### 8.3. Litter

The implementation of covered transfer vehicles, staff supervision, and a fenced facility will be used to prevent litter. Windblown materials, if any, will be picked up and discarded as needed.

### 8.4. Odors and Vectors

Measures to be taken to control odors and disease vectors include immediate removal of waste, invariable washing of the tipping floor, and covering of any partial loads which may remain outside overnight. If vectors are discovered, adequate extermination measures will be taken. The tipping area will be empty and clean at the end of each working day.

### 8.5. Dust

The access roads and the areas adjacent to the MSW Transfer Station are paved to help lessen the problems associated with dust.

### 8.6. Noise

The tract of land on which the MSW Transfer Facility is located has ample buffer to soften most noise pollution. Current levels are not expected to change.

## **9. Record Keeping**

All records will be kept on site at the scale house office. The records will be available for inspection during normal operational hours. The records will consist of the following:

- 9.1. Tonnage of waste transferred from the station;
- 9.2. Tonnage of MSW waste accepted at the site;
- 9.3. Tonnage of clean fill accepted at the site;
- 9.4. Tonnage of yard waste accepted at the site;
- 9.5. Tonnage and number of tires accepted and disposed;
- 9.6. Tonnage and number of batteries accepted and disposed;
- 9.7. Tonnage and type of recyclables accepted at the site;
- 9.8. Gallons of oil accepted at the site and disposed;
- 9.9. Gallons of anti freeze accepted at the site and disposed;
- 9.10. Tonnage/pounds of oil filters accepted at the site and disposed;
- 9.11. Tonnage of metals and white goods accepted at the site and disposed;
- 9.12. Amount of Freon removed from white goods;
- 9.13. Amount of leachate removed from the site and disposed; and,
- 9.14. Results of semiannual ground water monitoring of the closed landfill.

**3. APPLICANT SIGNATURE**

**Applicant Signature Page**

Name of facility Franklin County Solid Waste Transfer Station

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars (\$15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

<i>John G. Faulkner</i>	John G. Faulkner	August 20,
_____	_____	2015
Signature	Print Name	Date
Solid Waste Manager		
_____		
Title		
County Government		
_____		
Business or organization name		



**Engineering Company, P.A.**

**Municipal Services**

P.O. BOX 97, GARNER, N.C. 27525  
(919) 772-5393  
P.O. BOX 349, BOONE, N.C. 28607  
(828) 262-1767  
LICENSE NUMBER: C-0281

**MUNICIPAL SOLID WASTE  
TRANSFER STATION FACILITY  
FRANKLIN COUNTY  
NORTH CAROLINA**

DATE	BY	REV.	DESCRIPTION

SCALE: 1" = 150'	
DATE: 8/12/2015	
DRWN. BY: L. CRAWFORD	
CHKD. BY: W. SULLIVAN	
PROJECT NUMBER	
<b>G15108</b>	
DRAWING NO.	SHEET NO.
F1	1 OF 1

**PRELIMINARY**  
DO NOT USE FOR CONSTRUCTION  
8/12/2015

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