

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

**Municipal
Services**



**Engineering
Company, P.A.**

July 20, 2006

RECEIVED
N.C. Dept. of ENR
JUL 24 2006
Winston-Salem
Regional Office

Mr. Tim Jewett, Regional Engineer
NC DENR
585 Waughtown Road
Winston-Salem, NC 27107

Re: Revised Permit Renewal for Yadkin County Transfer Station

Dear Mr. Jewett:

Please find enclosed two copies of the revised permit renewal including facility and operation plans for the above referenced transfer station. The County was asked by their Regional Solid Waste Management Specialist to submit a complete revision showing the present conditions.

If you need any additional information or have any questions, please do not hesitate to call.

Sincerely yours,
Municipal Engineering Services Co., P.A.

D. Wayne Sullivan

Copy: Cheri Cranfill w/enclosures
Jason Watkins w/o enclosures

I. INTRODUCTION AND BACKGROUND

This operation plan has been created on behalf of the Yadkin County Department of Solid Waste for the Solid Waste Handling and Transfer Facility (Permit 99-03T). Operations at this facility will be conducted in agreement with this plan, the North Carolina Waste Management Rules, and generally sound environmental and waste management practices.

The MSW transfer facility transports its waste to the BFI-Charlotte Motor Speedway Landfill in Charlotte, NC, which is a lined waste management facility (Permit number 13-04).

II. FACILITY LOCATION

The Yadkin County MSW Transfer Facility is located near Yadkinville, North Carolina. The facility, which is owned by Yadkin County and operated by BFI, is located approximately 5 miles northeast of Yadkinville, NC on Landfill Road.

The physical address is as follows:

Yadkin County Transfer Station
1149 Landfill Road
Yadkinville, North Carolina 27055

The mailing address is as follows:

Yadkin County Transfer Station
PO Box 1688
Yadkinville, NC 27055

III. FACILITY OWNER

The facility is owned and operated by Yadkin County. The key personnel associated with operations are:

Cheri W. Cranfill, Solid Waste Director
Yadkin County Services and Development
PO Box 1688
Yadkinville, NC 27055
Telephone (336) 679-4243

IV. FACILITY DESCRIPTION

The main MSW transfer structure is a metal building constructed on a concrete slab and retaining wall. It is enclosed on three sides, keeping one open facade that provides accessibility for incoming vehicles. One of the enclosed sides provides an entrance for service vehicles to the tipping floor. The tipping floor encompasses an area of approximately 2,800 square feet (50 feet by 56 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 trailer located on the lower level. Wastewater that is generated from normal activities and from regular washing of the tipping floors is collected through drains in the lower level floor. These drains empty into the on-site 500 gallon holding tanks which are pumped out once per week by a licensed septage hauler and disposed at the Yadkinville Wastewater Treatment Facility located in Yadkinville, NC. Any solid waste not removed from the transfer station will be stored in an enclosed transfer trailer overnight.

V. SOURCES, TYPES, AND QUANTITIES OF WASTE

Sources of municipal solid waste are from residential, commercial, and industrial facilities located within Yadkin County. The MSW handling and transfer facility will be used solely for the handling and conveyance of municipal solid waste generated within Yadkin County. The Facility will only accept solid waste as defined in G.S. 130A – 290(35). Any hazardous, liquid, or other prohibited materials found in the waste stream shall be removed and held for proper disposal. The waste will be transferred to the site in publicly and privately owned vehicles of various types and sizes.

From July 1, 2004 through June 30, 2005, 20,594 tons of MSW were accepted at the Yadkin County Transfer Station, which equates to approximately 1,716 tons per month. This rate is expected to remain relatively constant but will be relative to population growth. Thus, a proportional increase in waste quantities should be expected as Yadkin County's population increases.

VI. OPERATION PLAN

A. General

The Yadkin County Transfer Station will be open Monday through Friday from 8:00 AM until 4:30 PM and on Saturday from 8:00 AM to 2:00 PM. The facility will be closed in the observance of the following holidays: New Year's Day, Independence Day, Thanksgiving Holidays, and Christmas Holidays. Any other holidays may be observed if the municipalities observe them.

Waste collection and transportation vehicles are weighed in at the scale house and again weighed upon departure. Signs will be posted directing traffic to the proper areas for

disposal of the respective material. MSW will be unloaded onto the tipping floor, where it will be gathered and moved into the transfer trailer. The operator will keep a log of all the daily activities. The station operator, who is responsible for observing the contents of each load, will take action if unsuitable waste is received.

Other activities that occur at the transfer facility include:

- Yadkin County accepts used tires daily. Tires are stacked by the public into the storage trailer. When the trailer is full, the County will contact US Tire and have it switched out.
- A recycling area is on site to process source separated recyclable materials for market.
- Pesticide containers, specially constructed for this purpose, are set inside the building. The Agriculture Extension Office arranges for pick up when necessary.
- Used oil is collected and stored in a 1000 Gallon tank for pick up by US Filter.
- Old metal materials and appliances are collected in an area designated for metals. These materials are generally processed and removed every two months or as needed.
- White Goods, which contain Freon, are collected by the facility and stored in the designated area until the Freon is removed. The handling and disposal of these items are governed by 40 CFR 82 "Protection of Stratosphere Ozone". The discarded materials are removed every two weeks.
- The scale house and office are open during standard operating hours. Vehicles transporting MSW stop at the scalehouse for weighing before and after trips to the transfer station.

B. Equipment

The equipment, which is used at the MSW Transfer Station, is owned and operated by a private contractor. Personnel will conduct preventive and other maintenance to ensure the equipment remains in good operational condition. The following equipment will be used at the transfer station:

- 1 Volvo Wheel Loader
- 5 Open-Top Transfer Trailers
- 3 Road Tractors
- 1 Yard Tractor

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

C. Personnel

County staff will be present at the scalehouse to weigh vehicles in and out. Staff will also be stationed at the transfer areas to oversee operations to ensure that no hazardous or prohibited waste enters the transfer facility. All employees will be 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 will be required to immediately report all work-related injuries and illnesses. All staff members will be provided with the necessary safety equipment including gloves, dust masks, safety shoes, earplugs, safety glasses and related protective items as needed.

D. Waste Transfer

All vehicles will be weighed at the scale and then proceed to the transfer station or appropriate location. A two lane all-weather access road will be maintained between the scalehouse and other structures. Vehicles hauling MSW will back up to the transfer stations loading bay and unload onto the tipping floor over the facility's dock. A visual inspection will then be performed by the transfer station attendant to ensure that only authorized waste is accepted. A wheel loader will then push and compact the waste onto the transfer trailer through the loading bay. Once full, the transfer trailer will transport the waste to the BFI Charlotte Motor Speedway Landfill near Charlotte, NC and an empty trailer will replace the departing trailer.

Outgoing trailers will be weighed at the scale house for bookkeeping purposes and to ensure that no overloaded vehicles will enter NC roads. Weight records of MSW will be maintained at the facility and will be used in preparation for the annual reports submitted to NCDENR, Division of Solid Waste.

E. Wastewater Management

The tipping floor will be cleaned daily by using a push broom. Wastewater generated as a result of daily operations and periodic cleaning of the facility will be collected by a drain in the lower loading bay. These drains are then piped into a series of solids and grease/oil separators prior to entering the on-site holding tank. The holding tank will be pumped out monthly and hauled to the Town of Yadkinville's wastewater treatment plant.

F. 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 prohibited or unauthorized waste materials, fire, odors, disease, vectors, noise, dust, and litter. The Material Screening process conforms to NCAC T15A.13B.0302 (2). Key elements of this plan consist of:

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

Training of Facility Personnel: 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. Transfer station employees will be SWANA Certified Transfer Station Operations Specialists.

Visual Inspections: These shall include observations of each truckload at the scale, unloading their shipment onto a concrete pad, and observations 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: These 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 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

Fire: The MSW transfer station and associated buildings will be 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.

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

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.

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

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.