

DIN 10167 3/24/2010 JM

**IREDELL COUNTY SOLID WASTE
MOORESVILLE TRANSFER STATION
PERMIT # 49-04T
OPERATIONS PLAN**



February 24, 2010

I. INTRODUCTION AND BACKGROUND

This permit application has been created on behalf of the Iredell County Department of Solid Waste for the Solid Waste Handling and Transfer Facility. The intention of this application is to renew the existing permit number (49-04T) for the Municipal Solid Waste (MSW) transfer facility. 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 Iredell County Landfill in Statesville North Carolina, which is a lined waste management facility (Permit number 49-03).

Zoning approval, as well as approval to discharge wastewater effluent into the Town of Mooresville's sewer system, was acquired when the MSW transfer facility was originally permitted in November of 1996.

I. FACILITY LOCATION

The Iredell County MSW Transfer Facility is located in Mooresville, North Carolina. The facility, which is owned and operated by the County of Iredell, is located approximately one mile east of US Interstate-77, and accessed from NC Hwy 150, as depicted in Figure 1.

The street address is as follows:

Iredell County Transfer Station
158 McCloud Drive
 Mooresville, North Carolina 28115
 Telephone (704) 663-5314

II. FACILITY OWNER

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

David Lambert, Solid Waste Director
354 Twin Oaks Road
Statesville, NC 28687
Telephone (704) 878-5432

Susan Cornell, Administrative Manager
354 Twin Oaks Road
Statesville, NC 28625
Telephone (704) 928-2023

Roger West, Transfer Station Supervisor
158 MacLeod Drive
 Mooresville NC 28115
 Telephone – (704-663-5314)

III. FACILITY DESCRIPTION

The Iredell County Facility consists of an enclosed building for MSW transfer, a paper/glass/plastic/aluminum recycling center, and areas used to accumulate used tires, oil, oil filters and lead-acid batteries until they can be removed for proper recycling. There are also containers for the transfer of: wood and yard waste, cardboard, metal, appliances (with Freon), and construction and demolition materials. Plastic bottles are collected in a 40 yard compactor box. These facilities are located on drawing Figure 1.

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 5,250 square feet (75 feet by 70 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 tipping floor. These drains along with those on the lower loading bay empty into the Mooresville City sanitary sewer line. Any solid waste not removed from the transfer station will be stored in an enclosed transfer trailer overnight. The aforementioned structure is shown on figure 1.

IV. SOURCE, TYPES, AND QUANTITIES OF WASTE

The source of municipal solid waste will be from residential, commercial, and industrial facilities located within Iredell County. The MSW handling and transfer facility will be used solely for the handling and conveyance of municipal solid waste generated within Iredell 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.

The incoming waste tonnage has seen a noticeable decline in the past two years which is directly related to the economy. In FY 08-09 the monthly average was 3,650.5 tons per month. However the three preceding years respectively were 3,728/ month; 4,031/month and 4,195 per month, making the case the normal expectation will be for more than 4,000 tons per month. Recycled tons have steadily increased each year and were a total 3,940 tons last fiscal year.

V. OPERATION PLAN

A. General

The Iredell County Transfer Station will be open Monday through Saturday from 7:00 a.m. until 6:30 p.m., as well as Sundays from 2:00 p.m. until 6:30 p.m. The facility will be closed in the observance of the following holidays: New Year's Day, Good Friday, Independence Day, Labor Day, Thanksgiving Day, and Christmas (one or two days, depending on calendar).

Waste collection and transportation vehicles are weighed in at the scale house. If weights are not known for the vehicle they are 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:

- Tires are accepted from non-commercial sources only. They are placed in a roll off container which is taken to the main landfill's tire collection area when full.
- The Recycling/drop-off area consists of three roll off containers, which are labeled for disposal of mixed paper, plastic bottles, aluminum/metal/steel cans, and clear/brown glass. These are transported to the Twin Oaks Facility on as needed basis.
- Used lead-acid batteries are collected in a designated location. These batteries are stored on a wooden pallet adjacent to the main MSW facility. In general, the batteries are removed once a week.
- Used oil is collected in an aboveground 500-gallon steel tank, and stored until proper disposal. Antifreeze is also collected at the facility in two 55-gallon barrels that are adjacent to the oil tank. These materials are removed from the site on a bi-monthly basis. If needed, this removal rate is raised or lowered. Oil Filters are collected in 55 gallon barrels and are removed by the used oil vendor.
- Yard Waste such as grass clippings, leaves, brush, and other debris is collected in two separate roll-off containers located near the main MSW facility. This material may be transported to the County's composting Facility or private permitted composting facilities
- Old Metal materials are collected in a single roll-off container until proper disposal. These materials including non-freon appliances are generally removed once per week or as needed.
- Old Corrugated Cardboard (OCC) is collected in one designated roll-off container, until proper disposal can take place. Typically cardboard is removed on a weekly basis, or as required
- White Goods, which contain Freon, are collected by the facility and stored in one designated roll-off container. The handling and disposal of these items are governed by 40 CFR 82 "Protection of Stratosphere Ozone". The discarded

materials are removed on a weekly basis. Plans are being developed to add a “White Goods Facility” to handle removal of Freon and processing on site.

- Construction and Demolition materials are collected in three designated roll-off containers. These materials are stored until proper disposal can occur, which is typically on a weekly or as-needed basis.

- The Scalehouse and Office are open during standard operating hours. Vehicles transporting MSW will 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 Iredell County. County 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 John Deere 310 Backhoe
- 1 John Deere 544J Wheel Loader
- 5 Open-Top Transfer Trucks & Trailers
- 1 Roll-off Truck
- 1 Pickup Truck
- 1 Minuteman Sweeper

Either the backhoe or front-end 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 front-end loader. 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 over see operations to ensure 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 only authorized waste is accepted. A front-end 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 Iredell County Landfill in Statesville, North Carolina, and an empty trailer will replace the departing trailers.

Outgoing trailers will then be weighed at the scale house for bookkeeping purposes and to ensure 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 Department 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 daily cleaning of the facility will be collected by a drain in the lower loading bay. These drains are then piped into the city of Mooresville wastewater collection system.

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. A short synopsis for each of these items follows:

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.

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 procedure 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 floor will be washed at least once per day. The tipping area will be empty and clean at the end of each working day.

Dust: The access road and the area 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 trees to soften most noise pollution. Current levels are not expected to change.

Detailed Screening Report

Waste Source: _____

Address: _____

Probable **VI. Suspected** **Confirmed**

Location: **C&D** **MSW** **Tipping floor**

Waste Hauler: _____

Address: _____

Drivers Name: _____

Detail:

WEIGHT VII. TICKET #

Notified:

Waste Source

**VIII. Hauling
Management**

Site Management

State

Federal

Name:

Witness (if any):

Date: _____

AM

PM

Action Required

Contingency Plan

The contingency plan is refinement of the emergency response procedures. The contingency plan addresses the specific reasons when you would need to use the plan and lists the duties of the Emergency Coordinator.

A. Iredell County Solid Waste

Mooresville Transfer Station
158 MacLeod Drive
Mooresville, NC 28115

In the event of any of the following, the contingency plan will be implemented by the Emergency Coordinator.

- Fire
- Explosion
- Release of hazardous waste or hazardous waste constituents that may harm human health or reach surface waters.
- Other: Dumping of hazardous waste materials.

Emergency Coordinator

The FACILITY'S Emergency Coordinators are listed in the order, which they would assume authority during work hours. One of these persons will be on duty or call at all

times. An Emergency Coordinator has the authority to **implement and carry out** the requirements of this plan.

Primary Emergency Coordinator:

Name: Roger West
Address: 141 Single Oak Drive Troutman, NC 28166
Contact Number(s): (Work) 704-663-5314
(Cell#) 704-437-0653 (Home) 704-528-4899

Alternate Emergency Coordinator:

Name: Phil Alexander
Address: 427 South Magnolia Street Mooresville, NC 28115
Contact Number(s): (Work) 704-663-5314 (Home) 704-663-6089

Alternative Emergency Coordinator:

Name: Mark Cline
Address: 392 Rankin Hill Road Troutman, NC 28166
Contact Number(s): (Work) 704-663-5314 (Home) 704-528-7219

It shall be the responsibility of the emergency coordinator to contact David Lambert, Solid Waste Director 704-878-5432, 704-902-1866, David Martin, Emergency Management 704-878-5353, 704-902-2272, Steve Warren, Safety Director 704-928-2046.

General Duties in Emergencies:

Handling of Hazardous Waste

1. If discovered before or at time of unloading the material will be refused and it shall be haulers responsibility to deal with according to regulatory rules.
2. If discovered after unloading it will become Iredell County Solid Waste Facility's responsibility to dispose of by the following guidelines.

All Iredell County Solid Waste Personnel Should:

1. Report uncontrolled releases of hazardous chemicals to the outside environment to the Emergency Coordinator.
2. Alert other personnel working in the area to initiate protective measures.
3. Provide details of the release.
4. Contact appropriate local authorities as directed by the Emergency Coordinator.
5. Assist in evacuation if necessary.
6. Barricade areas to prevent entrance.

Emergency Coordinator Duties:

1. Assess nature of the release (type of chemical).

2. Evaluate the effects (immediate), use your Material Safety Data Sheets if such can be obtained quickly.
3. Determine if evacuation is necessary.
4. Help contain spill if there is no danger.
5. Remove incompatible materials to prevent reactions.
6. Call 911 first, and then notify County Emergency Management – David Martin @ 704-878-5353, or 704-902-2272.
7. Notify NCDENR.
8. Iredell County Emergency Management Coordinator will determine if necessary to notify the National Response Center (800-428-8802), give the following information:
 - * Your name and telephone number
 - * Facility name and location.
 - * Time and date.
 - * Type of accident (fire, spill, explosion).
 - * Name of material and amount involved.
 - * Any injuries or hazards to human health or the environment.
9. Coordinate spill cleanup through Iredell County Emergency Management.
10. Ensure spilled material is stored in proper containers, labeled properly, and in a correct storage area.
11. Arrange for shipment and disposal by a licensed hazardous waste contractor.
12. Replaced used emergency equipment, recharge or replace if needed.
13. Record the incident. Maintain records including waste screen record, photographs, shipping manifest.
14. Reviews and updates. Periodic reviews are conducted to maintain a working response plan for our facility. If the contingency plan is implemented, the responses taken during the emergency will be reviewed at a later date for effectiveness and workability. Any changes will be noted in a revision to this plan.

Personnel Training Program

All department personnel receive several types of training. The different types of training include orientation, safety, emergency response procedures, and hazardous waste management procedure. New personnel receive training necessary to safely perform their jobs and respond in an emergency situation.

All New Personnel

New personnel receive instructions that give an overview of facilities operation. Personnel are informed of the potential hazards and proper use of various hazardous materials, tools, and machines. They receive instruction in safety practices and emergency responses. In addition, as part of the instruction, on the job training is provided.

Hazardous Waste Management Training Program

The hazardous waste management-training program serves to instruct newly hired personnel, cross-train and update current employees. There are four topics in this training program.

1. Introduction to hazardous waste rules and emergency responses.
2. Hazardous waste handling, storage, and labeling.
3. Emergency equipment.
4. Documentation important to hazardous waste management.

Other: We do not generate hazardous waste nor accept it with prior knowledge but may be subject to receiving it from others . Employees are trained to screen incoming loads of waste for potentially hazardous materials.