



**APPROVED**  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION  
Date 08/28/2013 By Patricia M. Backus  
DIN 19179  
Attachment 1 Part II Document 2  
Permit 3212-TRANSFER-1999 Permit DIN 19301

August 27, 2013

# City of Durham Transfer Station Operations Plan Facility ID 32-12T



Department of Solid Waste Management  
1833 Camden Avenue  
Durham, NC 27704  
(919) 560-4186

DURHAM



1 8 6 9  
CITY OF MEDICINE

**CITY OF DURHAM**

*Department of Solid Waste Management*  
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June 19, 2013

Ms. Pat Backus, P.E.  
Environmental Engineer  
Solid Waste Section – NCDENR  
1646 Mail Service Center  
Raleigh, NC 27699-1646

Re: Request for Permit Modification  
City of Durham Transfer Station (Permit No. 32-12T)  
Durham, North Carolina

Dear Ms. Backus,

The City of Durham is requesting a modification of its Permit to Operate due to contract changes that have been approved by the Durham City Council. The main changes involve the operator of the facility, the final disposal location, and the method in which MSW is loaded into trailers. A revised Operations Plan has been prepared and is included as an attachment to this request.

The first change would be to remove REPUBLIC SERVICES of NC LLC as the named operator on the Permit. The City's new operation contract will be with Waste Industries, LLC. The included Operations Plan has been updated to reflect this change.

A second change to the Permit would be to Attachment 3, Part I, # 4. This City requests to add to the list of acceptable disposal locations the Sampson County Disposal facility (NC permit # 82-02) in Roseboro, NC. The Sampson County location would be the primary disposal location for waste transferred from the City's facility. The City requests that both the Brunswick Municipal Solid Waste landfill (permit # 583) and the Uwharrie Environmental MSW Landfill (permit # 62-04) remain in the permit as secondary or contingency disposal facilities. This change has been reflected in Section 3.3 (pg. 9) of the Operations Plan.

Previously the transfer station was operated on one side with a pre-load compactor. The compactor loaded the waste into closed top trailers for transport to the disposal facility. Waste Industries is proposing to only load via open top trailers. This is currently completed at the facility on the non-compactor side of the transfer station. Loading would be completed on this side until such time the compactor removed from the facility. Removal of compactor is expected to start at the close of business on June 29, and will be completed sometime the first week of

July 2013. References to the pre-load compactor unit have been removed from the updated Operations Plan provided.

Section 9 of the Operation Plan was updated to reflect the desire to have a segregated area that is bunkered off from the MSW tipping floor to dump the City's comingled recycling collection in. The comingled recycling will be unloaded and bunkered until such time that a full trailer load is on hand and can be loaded into a transfer trailer for transport to the material recovery facility (MRF). The bunkered area will be fully contained within the building's leachate containment area. It is understood that comingled recycling must be kept separate from MSW waste at all times. The City was previously approved to load recyclables from the tipping floor by unloading the collection trucks after waste was removed for the day. This change will allow for more efficient operations of the transfer station and the City's collection crews.

A few other clarifications were made to the Operations Plan as a result of comments made by the Environmental Senior Specialist during past inspections. These include updating the contact information (Section 1.3); reducing the required random inspections from 3 per day to 1 per day or 1%, whichever is greater (Section 3.5); and, adding some information on the yard waste operations and yard waste convenience site (Section 10).

Per your email dated June 18, 2013, I will am submitting an electronic copy of this letter and the Operations Plan and will send a paper copy of the letter and 2 paper copies of the Operations Plan via US mail. Should you have any questions or require clarification, please contact me at your earliest convenience at (919)-560-4186.

Sincerely,



Chris Marriott, Disposal Manager  
CITY OF DURHAM  
SOLID WASTE MANAGEMENT

ATTACHMENT: City of Durham Transfer Station Operations Plan, Facility ID 32-12T,  
Dated June 18, 2013

Cc: Ed Mussler, Permitting Branch Head, NC DENR-SWS (email only)  
Jason Watkins, Western District Supervisor, NC DENR-SWS (email only)  
John Patrone, Environmental Senior Specialist, NC DENR,-SWS (email only)

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August 27, 2013

Ms. Pat Backus, P.E.  
Environmental Engineer  
Solid Waste Section – NCDENR  
1646 Mail Service Center  
Raleigh, NC 27699-1646

Re: Request for Permit Modification – Response to comments  
City of Durham Transfer Station (Permit No. 32-12T)  
Durham, North Carolina

Dear Ms. Backus,

The City of Durham requested a modification of its Permit to Operate due to contract changes that have been approved by the Durham City Council. On June 16, via email you requested some changes to the submitted Operations Plan.

The City has since rethought the request and has modified Section 9 of the Operation Plan to reflect the desire to handle recyclable material on the tipping floor during the hours directly preceding or MSW acceptance or after MSW has been cleared from the tipping floor. The comingled recycling will be unloaded onto the floor and then subsequently loaded into a transfer trailer for transport to the material recovery facility (MRF). It is understood that comingled recycling must be kept separate from MSW waste at all times. The City was previously approved to load recyclables from the tipping floor by unloading the collection trucks after waste was removed for the day. This change will allow for more options in the operations of the transfer station and the City's collection crews.

I am submitting an electronic copy of this letter and the Operations Plan and will send a paper copy of the letter and 2 paper copies of the Operations Plan via US mail. Should you have any questions or require clarification, please contact me at your earliest convenience at (919)-560-4186.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Marriott", with a long horizontal flourish extending to the right.

Chris Marriott, Disposal Manager  
CITY OF DURHAM  
SOLID WASTE MANAGEMENT

ATTACHMENT: City of Durham Transfer Station Operations Plan, Facility ID 32-12T,  
Dated August 27, 2013

Cc: Ed Mussler, Permitting Branch Head, NC DENR-SWS (email only)  
Jason Watkins, Western District Supervisor, NC DENR-SWS (email only)  
John Patrone, Environmental Senior Specialist, NC DENR,-SWS (email only)

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# 1.0 INTRODUCTION

## 1.1 PURPOSE

This Operations Plan for the City of Durham (City) Waste Disposal & Recycling Center (transfer station) presents general guidance for facility operations. This plan has been prepared in accordance with the North Carolina Solid Waste Rules 15A NCAC 13B .0402, Operational Requirements for Transfer Facilities. This plan addresses pertinent operational requirements outlined in Rule .0505, Operational Requirements for Sanitary Landfills. The Operational Plan will address the following issues:

- Waste acceptance criteria
- Destination of Waste
- Facility operations
- Drainage control and water protection
- Disease and vector control
- Sign and safety requirements
- Access and security requirements
- Facility Inspections

All personnel involved with the management or supervision of the operations will be required to review this document and to maintain the facility in accordance with all applicable laws and requirements. A copy of this document shall be kept on file at the transfer station scale house at all times.

## 1.2 FACILITY LOCATION

The transfer station is located within the Corporate Limits of the City of Durham in Durham County at the intersection of East Club Boulevard and Camden Avenue. The address for the transfer facility is 2115 East Club Boulevard, Durham, North Carolina 27704.

Interstate 85, Exit 179, is located approximately 0.3 mile east on East Club Boulevard from the transfer station entrance. The transfer station property has been zoned by the City of Durham as I-2 (light industrial) which is suitable for the development of public facilities, which include solid waste transfer stations.

## 1.3 FACILITY DESCRIPTION

The transfer station is a four bay corrugated metal building that provides a covered tipping floor area. The facility was formerly serviced by a pre-load compactor on one side and open top trailers on the other side. The June 2013 revision to the Operations Plan removes the pre-load compactor from operation. It is intended that all material will be handled through the existing top load area on the eastern side of the building.

There is a separate scale house building with two inbound scales. After weighing, collection vehicles will proceed to the transfer station apron where they will turn and back into the building. The apron and access ramp are a paved concrete surface impervious to moisture and erosion. The collection vehicles deposit their loads onto the tipping floor and exit the building.

The apron provides access to the southern side of the transfer station, which opens to the approximate 7,200 square foot tipping floor. The four loading bays are located along the northern end of the tipping floor approximately 14 feet below the tipping floor elevation.

Both the tipping floor and loading bay are equipped with drains to capture any leachate or wash water generated in the transfer station. These drains are located along the entrances to the tipping floor and in the lower level loading bay floor. Leachate and small solids are trapped by the oil water separator which is periodically pumped empty by a hazardous waste contractor and disposed of appropriately.

Also located on the same property is a drop-off convenience center which accepts recycling, white goods, tires, antifreeze, motor oil, and trash from residents. 40-yard open top containers are used to accept MSW from customers in small vehicles that should not be directed to the tipping floor for safety reasons.

The City is the owner and permit holder of the transfer station. As of July 1, 2013, the City contracts with Waste Industries to operate the facility; they subcontract the daily operation to Hilco Transport, Inc (Hilco). The contract term begins on July 1, 2013 and lasts for ten years (June 30, 2023). The primary contacts for operation of this facility are:

Donald Long, Director  
Solid Waste Management Department  
City of Durham, 101 City Hall Plaza, Durham, North Carolina 27701  
Phone :(919) 560-4186 ext 32222 Fax (919) 560-1132  
Email: [Donald.Long@durhamnc.gov](mailto:Donald.Long@durhamnc.gov)

Chris Marriott, Solid Waste Disposal Manager  
Solid Waste Management Department  
City of Durham, 101 City Hall Plaza, Durham NC 27701  
W:(919) 560-4186 ext 32253 M:(919) 452-2804 F:(919)560-1197  
Email: [chris.marriott@durhamnc.gov](mailto:chris.marriott@durhamnc.gov)

Bill Davidson, General Manager  
Waste Industries, 148 Stone Park Court., Durham, NC 27703  
W:(919) 596-1363 F:(919) 598-1852  
Email: [William.davidson@wasteindustries.com](mailto:William.davidson@wasteindustries.com)

Chuck Jones,  
Hilco Transport, Inc., 7700 Kenmont Rd.  
PO Box 35049, Greensboro, NC 27425  
W:(336) 273-9441 M:(336) 273-9701  
Email: [cjones@hilcotransport.com](mailto:cjones@hilcotransport.com)

## **2.0 WASTE ACCEPTANCE CRITERIA**

In accordance with 15A NCAC 13B .0402(1), a transfer facility shall only accept those wastes which it is permitted to receive. The transfer station will accept municipal solid waste (MSW) (i.e., residential, commercial, and industrial waste), construction and demolition (C&D) materials.

### **2.1 SERVICE AREA**

The Waste Disposal Facility will accept waste generated in the following counties:

- Durham
- Chatham
- Granville
- Orange
- Person
- Wake

### **2.2 NON-COMMERCIAL WASTES**

Passenger vehicles and pickup trucks lacking an automated dumping capability will be directed by scale house personnel to the appropriate areas at the convenience center for unloading.

Residents bringing recyclable items, motor oil, anti-freeze, cooking oil, white goods, and tires will be directed to the convenience center. Attendants will then direct them to the proper bays or bins.

Residents with reusable items will be directed to the Swap Shop. Examples of reusable items are small appliances, bicycles, cookware, fans, and radios. All items must be clean and in working order.

Customers with non-recyclable/non-reusable items (trash) will be directed to cross the scales. The resident will leave a small deposit and then travel to the unloading area. An attendant will ask what it being delivered. The customer will then be directed to the appropriate disposal location, depending on the type of trash they are disposing. The residents must unload their own trash. Once the waste is unloaded, the customer goes

back over the scales to calculate the tare weight. The customer could possibly owe additional fees, depending on how heavy the load was.

### **2.3 COMMERCIAL WASTE**

The transfer station has been designed to handle an average tonnage rate of 650 tons per day and a peak rate of 1,100 tons per day. The daily tonnage rate is subject to change due to fluctuations in the amount of waste delivered to the facility on any given day and seasonal fluctuations. The expected annual tonnage for the facility is about 130,000 tons of MSW.

Incoming waste to the transfer station originates from public and private collection vehicles. The public and private waste collection vehicles consist of rear, front, and side loader truck types, as well as dump body vehicles. Industrial and commercial waste will also be transported to the facility by private waste haulers.

Easily retrievable recyclable items such as white goods, tires, or televisions/computers may be removed from the tipping floor if they were inadvertently brought in with a load of MSW. However, no small recyclable items will be separated from putrescible garbage on the tipping floor.

### **2.4 PROHIBITED WASTES**

In accordance with Rule .0505(10)(e), the transfer station will not accept barrels and drums unless they are empty and perforated sufficiently to ensure that no liquid or hazardous waste is contained in them. In accordance with Rule .0505(11)(b), no hazardous or liquid waste shall be accepted at the transfer station.

In addition, the transfer station will not accept infectious waste, medical waste, large amounts of animal waste, sludge, radioactive waste, and hazardous waste. A report shall be prepared by the City for any attempted delivery of waste of which the transfer station is not permitted to receive, including waste from outside the permitted transfer station service area. The report will be forwarded by the City to:

Department of Environmental and Natural Resources  
Solid Waste Section  
585 Waughtown Street,  
Winston-Salem, NC 27107  
336-771-5000

Loads containing this prohibited waste will be directed to the appropriate disposal facilities. In the event that prohibited waste is inadvertently discharged at the transfer station, operating personnel will isolate the waste within the transfer station building. Site operators will receive periodic training on the identification and handling of prohibited wastes. A licensed waste disposal contractor will be brought in to remove and properly dispose of the prohibited waste.

## **3.0 TRANSFER STATION OPERATIONS**

### **3.1 OPERATING HOURS**

The transfer station will typically receive waste Monday through Friday from 7:30 am to 4:30 pm and Saturday between 7:30 am and 12:00 pm. The transfer station will typically be closed on Sundays and designated holidays. However, maintenance may be conducted during times that the facility is closed for waste acceptance. A sign will be posted at the entrance to the transfer station identifying the hours of operation.

### **3.2 EQUIPMENT**

Since the transfer station is a tipping floor facility and not a final disposal destination, the only equipment required for the safe and effective operation are rubber tire front-end loaders, transfer trailers, and scales.

Additional or different equipment may be used to facilitate loading operations when the primary equipment experiences downtime. A contractor working for the City (Operator) will provide primary equipment, backup equipment, and equipment maintenance. The Operator will also provide transfer vehicles, transport the waste, and provide the maintenance of the transfer vehicles and all operation equipment connected with the transfer station.

### **3.3 WASTE HANDLING**

Waste collection vehicles delivering waste for transfer will enter the facility from East Club Boulevard and proceed along the entrance road to the scale to be inspected and weighed. Identification information with tare weights recorded on user vehicles will be maintained in the scale house for City vehicles and account customers. Trucks without identification information on file will be re-weighed for tare weight prior to exiting the facility. Authorized vehicles, after being weighed, will proceed along the access road to the transfer station building apron.

The Operator directs vehicles waiting to unload to back into the facility through the southern entrance. The vehicles back onto the tipping floor to an area designated by the Operator. Once the vehicle is in position, the waste load is discharged directly onto the

tipping floor and an employee conducts a visual screening of the waste materials. After the collection vehicles exit the transfer station building, a front-end loader is utilized to push the waste against the push wall. Waste is then taken from the pile near the push wall and loaded into the top load trailer in the tunnel. During peak hours, an additional front-end loader can be utilized to manage the waste and keep all traffic areas clear.

Once the trailer has been filled, it disconnects from the chamber, is staged in the gravel area to the northwest of the transfer station building, and then the waste is transported to an off-site permitted disposal facility. The primary disposal site will be Sampson County Disposal, in Roseboro, NC, permit # 82-02. In addition to this facility, the City would like to include the Uwharrie Environmental Landfill in Mt, Gilead, NC, permit # 62-04-MSWLF, and the Brunswick Landfill located in Lawrenceville, VA. as alternate disposal locations for material hauled from the transfer station. Other MSW landfills with acceptable service areas may also be used. NCDENR will be notified if the final disposal destination changes in the future.

The weight of the trailers will be recorded at the permitted disposal facility. All data from the permitted facility will be provided to the City for its records. The data will then be compiled into an annual written report by the City to be submitted to NCDENR.

The front-end loader operator will attempt to mix the waste loads to distribute the various types of wastes received throughout the loads to achieve better compaction of the material and optimal transportation weight in each trailer.

### ***3.4 BACK-UP OPERATIONS***

With open top trailers, it is expected that trash can be loaded for transport regardless of power outages. Equipment breakdown will be mediated by bringing in loaders from other locations which may include rentals. The City may allow the contract use of its loaders in times of emergency.

### ***3.5 INSPECTION OF WASTES***

Access to the transfer station is controlled by the scale operator(s) located along the entranceway to the facility. All waste entering the facility must pass the scale house prior to entering the transfer building. Scale house operators ask customers what type of materials they are bringing. Any unacceptable loads are documented and alternative disposal centers are suggested.

Passenger vehicles and light trucks are directed to the convenience center or yard waste transfer area. Staff will make a visual inspection of waste to ensure that no improper materials are being disposed of.

Vehicles with automated dumping capabilities are directed to the tipping floor. As waste is deposited onto the tipping floor, the operator will conduct a visual screening of the waste materials. Should unacceptable waste be found, the driver of the vehicle will be instructed to terminate dumping and the unacceptable material will be segregated from the acceptable material and managed as necessary.

Should a hauler consistently deliver unacceptable material, they will be denied further access to the transfer station, and the local office of NCDENR will be notified so that appropriate investigations can occur.

Random waste screening will also be practiced by the operator. A minimum of 1% of all incoming loads, with a minimum of one load, are to be screened each day by the Operator. A copy of the inspection form is located at the end of this document. Records of all waste screening loads are maintained in the Operator's office.

### **3.6 TRAFFIC CONTROL**

Access to the transfer station is controlled by the scale operator. All collection vehicles arriving at the facility are directed to the tipping floor or convenience center by the scale operator after their weight is recorded. Each truck is directed by the loader operator at the tipping floor to numbered door that the operator desires the truck unload at. After unloading their waste, those vehicles that do not have tare weights previously recorded are required to re-enter the scales and be re-weighed to establish a tare weight.

### **3.7 SANITATION PLAN**

The transfer station, convenience center, scale house, and grounds, will be kept in a manner that is conducive with providing a safe working environment at all times. Trash cans and roll-off containers will be emptied on a regular basis.

#### **3.7.1 Tipping floor & tunnel area**

The loader is equipped with a rubber edge to limit wear and tear on the concrete tipping floor during normal operations. This rubber edge will also act as a squeegee to scrape the floor clean at the end of the day. The tipping floor will be cleared of wastes at the end of each working day.

The pit area for the open-top trailers is cleaned several times throughout the day and as needed. Debris from the trench drains will be removed monthly, or as needed. The fans in the building are cleaned annually or as needed.

#### **3.7.2 Litter control**

All incoming waste vehicles are required to have their loads covered upon arrival at the facility. Outbound transfer trailers are also required to cover their loads. This

practice will help minimize the amount of litter at the facility. Throughout the day, and at the end of each day, facility personnel will police the area for windborne litter. Any litter discovered at the end of the operating day will be stored in an onsite dumpster for disposal the next day.

### *3.7.3 Convenience center and roll-off area pads*

The Convenience center and roll-off area pads are swept by attendants during lulls in customer arrival.

### *3.7.3 Odor control*

Odors are controlled by prompt unloading and transfer of all delivered waste at the transfer station. The open bay design also promotes fresh air exchange. Under normal operating conditions, odors are not expected to pose a problem.

## **4.0 DRAINAGE CONTROL AND WATER PROTECTION REQUIREMENTS**

In accordance with Rule .0505(7)(b)(c), the transfer station will be operated so as to prevent stagnate water from coming in contact with discharged waste and to contain and properly discharge collected leachate.

The transfer station building will be emptied and swept at the end of each operating day. The upper level and lower level drains of the building shall properly collect any wash water/leachate generated from the incoming trucks, and minimize areas of stagnate water within the transfer station. The drains connect to a conveyance line and tank that is periodically pumped by a contractor.

## **5.0 DISEASE AND VECTOR CONTROL**

In accordance with Rule .0505(12)(a), the transfer station shall provide effective vector control measures for the protection of human health and the environment. Disease vectors are defined as any rodent, flies, mosquitoes, or other animals, including insects, capable of transmitting disease to humans.

Control of disease vectors will be maintained by implementation of a cleaning program, which involves removal of waste, leachate, and wash water from all operating areas. The removal of waste at the end of each operating day will protect against migration of vectors into and from the transfer station buildings. Stagnant ponded water shall be prevented from occurring to control mosquito breeding. If problems controlling disease vectors occur, a licensed exterminator shall be utilized to control the vectors.

## **6.0 SIGN AND SAFETY REQUIREMENTS**

### **6.1 SIGN REQUIREMENTS**

In accordance with Rule .0505(9)(a)(b)(c), the transfer station shall post signs at the transfer station entrance indicating operational procedures, hours of operation, and the permit number. Signs shall be clearly posted stating that no hazardous or liquid waste can be received. Traffic signs and markers shall be provided as necessary to promote an orderly traffic pattern to and from the discharge areas and to maintain efficient operating conditions.

### **6.2 OPEN BURNING OF WASTE**

In accordance with Rule .0505(10)(a), open burning of waste shall be prohibited at the transfer station.

### **6.3 FIRE PROTECTION EQUIPMENT**

In accordance with Rule .0505(10)(b), fire suppression equipment shall be provided to control accidental fires and arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed. The transfer station building will be equipped with an appropriate number of fire extinguishers to effectively control small, accidental fires as well as on-site fire fighting hose connected to a direct water supply. Local fire departments will be notified when needed.

### **6.4 NOTIFICATION OF FIRE**

In accordance with Rule .0505(10)(c), fires that occur at the transfer station require verbal notice to the Division of Solid Waste within 24 hours and written notification shall be submitted within 15 days. Verbal and written notification shall be submitted to the Raleigh Regional Waste Management Specialist:

Department of Environmental and Natural Resources  
Solid Waste Section  
585 Waughtown Street,  
Winston-Salem, NC 27107  
336-771-5095

## **7.0 ACCESS AND SECURITY REQUIREMENTS**

### **7.1 TRANSFER STATION ACCESS AND SECURITY**

In accordance with Rule .0505(8)(a), the transfer station must be secured by means of gates, chains, berms, fences, and other security measures approved by the Division of Solid Waste Management to prevent unauthorized entry. All vehicles delivering waste to the transfer station will enter and exit through the existing access control gate. Unauthorized vehicle access to the facility is prevented by a chain-link fence surrounding the transfer station property.

### **7.2 ATTENDANT**

In accordance with Rule .0505(8)(b), the transfer station will have a full-time scale operator located in the scale house during operating hours. In addition, a transfer station attendant will be at the facility at all times during operating hours. Both the scale operator and transfer station attendant will be responsible for verifying that all vehicles comply with the permitted operational requirements.

### **7.3 ACCESS ROAD**

In accordance with Rule .0505(8)(c), the access roads for the transfer station will be constructed of an all-weather surface (asphalt, concrete, or graded aggregate) and shall be maintained in good condition. Potholes, ruts, and debris on the roads shall receive immediate attention in order to avoid damage to the vehicles. Access roads will be re-graded as necessary to maintain a positive slope for adequate drainage. Since collections and transfer vehicles travel at low speeds within the facility dust generation is not expected to pose a problem.

## **8.0 FACILITY INSPECTIONS**

There will be regular inspections conducted at the transfer station. Inspections will be conducted by City personnel who are trained and familiar with the operations of the facility. Items that will be inspected monthly will include, but not be limited to the following:

- transfer trailers & roll-off containers
- tipping floor & push wall
- fire extinguisher and fire hose
- electrical controls
- water lines
- trench drains
- oil water separator

## **9.0 RECYCLING OPERATIONS**

### **9.1 RECYCLING LOADING**

In May 2009 the City requested a permit modification to allow recycling to be processed at the transfer station after regular MSW processing had ceased for the day. At the time of the request the expected date for this project to start was July 2009. However, the project was been placed on hold and is now being renewed. Now the City would like to open its options for handling comingled recycling within the apron (leachate collection system) of the transfer station. These materials would be loaded into open top trailers for transport to a MRF. The City would like to have the primary options of ether unloading recyclables before trash is handled on the tipping floor at the beginning of the day, or after all trash has been cleaned from the tipping floor at the end of the day. The approved 2009 Operation Plan only allowed for end of the day unloading of recycling at the transfer station. Below is the operating plan for the recycling processing project.

City staff will collect curbside residential recycling on a regular Monday through Thursday schedule from approximately 7:00 am to 5:00 pm. Collection schedule adjustments will be made as necessary to account for holidays, peak collections, equipment breakdowns, staffing issues, and other unforeseen circumstances.

The primary option will be for City recycling collection trucks to go back to the equipment yard at the completion of their daily routes. The following morning, City trucks full of recycling will cross the scales to be weighed. They will then proceed to the tipping floor to dump. All recycling trucks will empty and comingled recycling will be cleared from the tipping floor prior to trash being allowed to dump after gate opening at 7:30am.

The second (back-up) option will be for recycling collection trucks to park and wait until all trash is cleared from the tipping floor at the end of the operating day. All trash will be cleared and the floor cleaned as necessary prior to recycling trucks unloading.

### **9.2 UNLOADING RECYCLING**

Regular solid waste loading into trailers for transport to a landfill will continue as currently outlined in our operational plan between the hours of 7:30 am and 4:30 pm. Recycling trucks will unload either prior to or after these hours. Recycling will not be accepted from private customers or mixed with MSW on the tipping floor.

Recycling will be loaded into trailers in the same manner as MSW is loaded.: Recycling will not remain on the tipping floor overnight.

### 9.3 TONNAGE

We expect to receive 12,000 – 15,000 tons of recycling each year. Because of the lower compaction rates necessary with recycling and the low weight of many recyclable materials in comparison to their volume, we believe that 3 to 5 trailer loads will be required to transport the recycling.

### 9.4 CONTAMINATED LOADS

Loads will come from residential recycling routes. Recycling loads may contain small amounts of household garbage mixed with the recycling. After each recycling load is dumped on the floor, the truck driver and the facility Operator will conduct a visual inspection of the load. If the garbage contamination is less than 20%, all materials will be stored for loading into trailers for transport to a material reclamation facility (MRF). The MRF will be responsible for sorting the garbage from the recycling as part of their normal processing system. Our agreement with the MRF contractor will have guidelines to ensure proper disposal of any contaminants.

If a load is found to contain garbage contamination in excess of 20%, the loader operator will segregate this load from the other clean recycling materials. The contaminated load will be moved to an open top trailer for storage. This open top will be loaded with garbage from the regular solid waste operations and transported to a landfill for disposal.

The loader operator who identified the contaminated load will make written notice of which truck the load originated from. This information will be shared with the City the next work day, so the City knows where to concentrate their educational efforts.

## 10.0 YARD WASTE OPERATIONS

### 10.1 Compost Facility

The City also owns and operates a Type 1 Composting facility (permit # 32-04) on an adjacent property to the north of the transfer station and closed landfill. Customers for the compost facility use the same entrance and scales as the transfer station customers. After weighing at the scale house, compost facility customers are directed to the yard waste dumping area.

## *10.2 YARD WASTE CONVENIENCE SITE*

The City operates a small dumping area, approximately 100ft by 100 ft. for small yard waste customers to unload materials. This convenience site is in the northwest corner of the transfer station trailer parking area. The types of customers that use this area are typically cars, pick-ups, and minivans. These customers unload either onto the ground or directly into a loader bucket. The loader then loads the yard waste into a 40 cubic yard roll-off container that is transported to the compost facility for grinding. The use of this convenience area prevents small vehicles from travelling the half mile distance over the closed landfill to the compost facility. It also allows for greater waste screenings of the loads the City has found to be most contaminated with non-yard waste materials. Larger trucks and trailers bypass this area and unload directly at the waste receiving area at the compost facility.

The yard waste convenience site is manned by an attendant anytime that unloading occurs to ensure that waste is properly screened. Material promptly loaded into a roll-off container for storage. All yard waste is either stored in the roll-off container or delivered to the compost facility at the end of each operating day.

## **11.0 WASTE SCREENING FORM**

A copy of the waste screening form is located on the next page.



# City of Durham Transfer Station



## Waste Load Inspection

**Date & Time:** \_\_\_\_\_ Mon Tue Wed Thu Fri Sat Sun

**Person conducting inspection:** \_\_\_\_\_

**Hauler and truck #:** \_\_\_\_\_

**Type of Waste:** \_\_\_\_\_

**Waste Origin:** \_\_\_\_\_

**Vehicle Type**

- Front loader
- Rear loader
- Roll off
- Trailer

**City Vehicle:** Yes No

**Was the load accepted?** Yes No

**Any banned recyclables?** Yes No

**Comments:**

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