

Wake County, North Carolina

**Transfer Facility Permit
Renewal Application**

**East Wake Transfer Station
Permit No. 92-33T**

January 2013

PERMIT APPLICATION



**Environmental
Services**

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Solid Waste Management Division
P.O. Box 550 • Raleigh, NC 27602
www.wakegov.com/recycling

January 24, 2013



Donna J. Wilson
Environmental Engineer
North Carolina Department of Environment and Natural Resources
Solid Waste Section/Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

**Subject: East Wake Transfer Station Permit 92-33T;
2013 Permit Renewal Application**

Dear Ms. Wilson,

On behalf of the City of Raleigh and Wake County, please find an Application for Permit Renewal for the East Wake Transfer Station, Permit Number 92-33T. The Permit Renewal Application and updated Operations Plan and Procedures Manual were prepared in accordance with the North Carolina Solid Waste Rules 15A NCAC 13B .0402 and the Application Guidance for a MSW Transfer Station provided by the Solid Waste Section of the Division of Waste Management for NC DENR.

Mr. Robert Brossoie, BRS Consulting, LLC, has assisted Wake County in preparing the attached East Wake Transfer Station Permit Renewal Application document.

Sincerely,

John Roberson, PE
Solid Waste Management Director

cc: Johnny Beal, WCSWM
Tommy Smith, ECR
Bob Brossoie, BRS Consulting, LLC

EAST WAKE TRANSFER STATION PERMIT RENEWAL APPLICATION

INTRODUCTION

The purpose of this permit renewal application is to renew the permit issued by the North Carolina Department of Environment and Natural Resources (NCDENR) on May 29, 2008, for operation of the East Wake Transfer Station (EWTS) (Permit No. 92-33T) through May 29, 2013. Under Part IV of the General Permit Conditions and pursuant to 15A NCAC 13B .0201(e), the owner or operator must submit a request to the NCDENR, Division of Waste Management, Solid Waste Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans no later than January 29, 2013. This permit renewal application will provide the updated documentation for continued operation of the EWTS for the next 5-year renewal period or until May 29, 2018. This permit renewal application has been prepared in accordance with the North Carolina Solid Waste Section Rules 15A NCAC 13B .0402 and will address any changes that have occurred in the operational status of the EWTS since the original (prior) permit issue date of May 29, 2008. This permit renewal application, in addition, addresses the following operational requirements as presented in an updated Operations Plan and Procedures Manual attached to this document:

- Waste Acceptance Criteria
- Facility Operations
- Disease and Vector Control
- Signage and Safety Requirements
- Access and Security Requirements

The East Wake Transfer Station, permitted to transfer municipal solid waste to the South Wake Subtitle D Landfill on May 29, 2008, following closure of the North Wake Subtitle D Landfill, is to continue operating in accordance with the original permit conditions and operational criteria established in the original permit application approved by NCDENR on May 29, 2008. The original permit application submitted in conjunction with the Permit to Construct application for the East Wake Transfer Station, dated August 2002, was not approved until May 29, 2008, subsequent to the North Wake Subtitle D Landfill ceasing landfill operations thereby requiring that all MSW waste be disposed of at the new South Wake Subtitle D (MSW) Landfill.

The current permit is held jointly by the City of Raleigh as the property owner and Wake County as the transfer station operator. Wake County as the transfer station operator currently contracts with East Coast Resources, LLC (ECR) to operate the transfer facility. Although the City of Raleigh and Wake County are joint permit holders, only Wake County is to continue managing the operation of the EWTS transfer facility. The City of Raleigh and Wake County will continue to serve as joint permit holders for the next 5-year renewal period.

The permit renewal application is being submitted jointly by the City of Raleigh and Wake County. However, because Wake County manages the transfer facility it is the County's responsibility to prepare the permit renewal application. However, the permit renewal application is subject to review by the City of Raleigh before being submitted to the NCDENR Solid Waste Section.

Hazen & Sawyer, on behalf of the City of Raleigh, prepared the Operating Plan and Procedures Manual (2002) that was submitted with the original permit application. The 2002 Operating Plan was updated in 2008. ECR has prepared and is currently operating under their own Operating Plan and Procedures Manual also dated 2008. However, the original Operating Plan and Procedures Manual prepared by Hazen & Sawyer and updated in 2008 still takes precedence should there be a conflict with the ECR Operating Plan. The updated Operating Plan being submitted with this permit renewal incorporates the procedures presented in the 2008 updated Hazen & Sawyer Operating Plan along with any changes that have occurred in the operational status of the EWTS since the original (prior) permit issue date of May 29, 2008.

The following information is presented in accordance with the MSW Transfer Station Permit Renewal Guidance Document provided by the NCDENR Solid Waste Section. Wake County is required to submit the following updated information as requested in Sections 1, 3 and 7 of the above referenced Guidance Document for the East Wake Transfer Station permit renewal application. Section 2 of the guidance document dealing with property information and maps, as submitted in the original August 2002 permit application, remains unchanged and as a result has not been included or updated in this permit renewal application. It is the intent of the permit renewal to continue only accepting waste from within Wake County and to dispose of the MSW waste in the South Wake Subtitle D Landfill. No waste will be accepted from outside Wake County or disposed of outside of the Wake County limits.

Section 1 – General Information

1. Name of proposed or existing transfer station.
East Wake Transfer Station (EWTS)
2. Name, address, telephone number and email address of the applicant and contact person. Wake County is the EWTS operator.
Wake County Solid Waste Management
Wake County Office Building 7th floor
P.O. Box 550
Raleigh, NC 27602
Contact Person: Mr. Johnny Beal, Solid Waste Specialist
(919) 518-0272
www.jbeal@wakegov.com
3. Name, address, telephone number and email address of the contract operator and contact person. ECR operates the EWTS on behalf of Wake County and are under contract with Wake County to operate the facility.

Mr. Tommy Smith, General Manager
East Coast Resources, LLC
East Wake Transfer Station
830 Corporation Parkway
Raleigh, NC 27610
(919) 212-8080
www.tsmith@eastcoastresources.com

East Coast Resources, LLC (ECR) is currently under contract with Wake County to operate the EWTS through June 30, 2013, after which ECR may or may not continue to operate the transfer facility depending on the outcome of a Request for Proposal (RFP) that is being issued by the County. ECR plans to submit, but may not be selected. Wake County will notify the NCDENR Solid Waste Section should there be a change in the transfer station operator.

4. Name, address, telephone number and email address of the landowner.
The City of Raleigh is the landowner.

Mr. Fred Battle, Director
City of Raleigh Solid Waste Services Department
PO Box 590
Raleigh, NC 27602
(919) 996-6867
www.Frederick.Battle@raleighnc.gov

5. Name, address, telephone number and email address of the consultant preparing this permit renewal application.

BRS Consulting, LLC
5300 Willow Cry Ln
Raleigh, NC 27613
Contact Person: Mr. Robert Brossoie, P.G., C.P.G.
(919) 601-4339
www.rbrossoie804@gmail.com

6. Name, address, telephone number and email address of person to receive permit fee invoices and annual fee invoices.

Wake County Solid Waste Management
Wake County Office Building 7th floor
P.O. Box 550
Raleigh, NC 27602
Contact Person: Mr. John Roberson, P.E., Solid Waste Director
(919) 856-6365
www.John.Roberson@wakegov.com

Section 2 – Property Information and Maps

Please refer to the original East Wake Transfer Station permit application dated August 2002 and updated in 2008, as this information remains unchanged. As a result, Questions #7 through #13 regarding property information and maps have not been addressed in this permit renewal application.

Section 3 – Operations Plan

14. Description of the wastes to be accepted (e.g. municipal solid waste, commercial waste, industrial, construction debris, demolition debris).

Only municipal solid waste will be accepted at the EWTS as currently stipulated in Part I: Operating Conditions, Item 3 of the permit conditions, wherein it is stated that the EWTS is permitted to receive municipal solid waste generated within Wake County. No changes to this existing permit condition are being proposed for the next 5-year renewal period. Hazardous waste, yard trash, liquid wastes, regulated medical waste, sharps not properly packaged, regulated-asbestos containing material as defined in 40 CFR 61, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S. 130A-309.10(f) will not be accepted for disposal at the East Wake transfer facility. Additional information is presented in the attached Operations Plan document.

15. Estimate in tons per day expected to be managed at the transfer station.
The average daily tonnage of MSW waste received at the EWTS is 850 tons/day, with a range in tonnage of 600 to 1325 tons/day. This represents an overall decrease of 150 to 200 tons/day from an operating daily high tonnage received during the first 5-year permit term. The estimated tonnage for the 5-year renewal period is expected to remain at its current average daily tonnage of 850 tons/day.
16. List the service area for the facility (a list of the county or counties from which the site will receive waste).
The EWTS will continue to receive MSW waste generated within Wake County as stated in Part I, Operating Conditions, Item 3. MSW waste generated outside of Wake County will not be accepted.
17. List the specific disposal facilities where the waste will be transferred. Waste must only be transported to facilities whose service area includes the generation source (i.e. the service area of the transfer station must match the approved service area of the disposal facilities).
The MSW waste received at the EWTS, will be transported to and disposed of at the South Wake Subtitle D (MSW) Landfill located off the Highway 55 Bypass in Holly Springs, Permit Number 92-22.
18. Description of the equipment, scales, structures, tipping floor, water source for cleaning and compactor and hopper. If wastes will be unloaded on a tipping floor, the operation must be covered in a building. Rain water that has come in contact with wastes must be collected and disposed as leachate.
All inbound waste trucks are weighed in at the scalehouse using two inbound lanes and one outbound lane equipped with Fairbanks scales installed by the City of Raleigh during construction of the EWTS. In the new RFP being prepared by Wake County, the facility operator will be responsible for maintenance of the

scales. Wake county staff will continue to operate the scales at the transfer station facility. After weighing, inbound trucks circle around the transfer station facility, unload the waste on the tipping floor, proceed back to the scalehouse, weigh out & receive a ticket. The tipping floor is protected from the elements and located inside the transfer station building. The waste on the tipping floor is then pushed to one of two open pits to transfer trailers below, positioned in the transfer tunnel to accept the waste, using one of two solid rubber tired front end loaders. The front end loaders are required to have minimum 5 CY buckets with quick connects. The loaded waste is then compacted in the transfer trucks using a rubber tired excavator with a minimum 30-foot boom, covered with a tarp and transported to the South Wake Subtitle D Landfill, where the waste load for disposal is weighed in, unloaded and the empty transfer truck then weighed out and a final weigh ticket issued. No scales, weigh hoppers or compactors are located inside the transfer station building.

The transfer facility uses City water paid by the transfer station operator. Fire hoses are used to wet/wash the tipping floor at the end of each day's operation. The wash water drains to the transfer tunnel where it is collected in a sewer lift station, where it is then pumped to the City of Raleigh's waste water treatment plant for treatment. Rain water that has come in contact with waste is collected and treated using the same process as the wash water.

Additional information is presented in the attached Operations Plan document.

19. Describe site security and access control. Access roads must be of all weather construction. Also describe hours of operation.

All access roads entering the scalehouse and EWTS facility are paved for all weather operation.

Site security and access control are provided by 24-hour monitoring of the facility using Wake County Security Center cameras. The scalehouse is also equipped with a burglar/fire alarm. The transfer station is also monitored by the facility operator. Security Center staff also patrol the site after hours. Gates are open during operating hours and closed/locked after hours. The permitted operating hours are from 7:00 AM to 4:00 PM, Monday through Saturday. Current operating hours are from 6:00 AM to 3:00 PM Monday through Saturday to accommodate ongoing rehab of the EWTS facility (e.g. improvements to the structural slab/tipping floor wearing surface, push walls and tunnel slab, electrical improvements to the tunnels and general improvements to trench drains and solids/water separators). Consideration is being given to change the operating hours from 6:00 AM to 3:00 PM Monday through Saturday on a permanent basis. The NC DENR Solid Waste Section will be contacted should Wake County elect to implement a change in the hours of operation.

Additional information is presented in the attached Operations Plan document.

20. Description of signs to be posted at the entrance to and within the site to direct traffic. Signs must provide a description of the types of waste received, the types of waste prohibited, operating hours, permit number, and emergency contact phone numbers.

The signage currently posted addresses all the items noted above. Should there be any changes to the operating hours, traffic control, etc.; the signage will be promptly updated.

Additional information is presented in the attached Operations Plan document.

21. Personnel requirements, qualifications, responsibilities. The plan must indicate that a trained employee must be onsite at all times the site is open, overseeing the loading and unloading of waste.

Trained personnel provided by the facility operator will be available onsite at all times while the facility is open. Should there be any changes in transfer facility operations, specific information with regard to any changes in trained personnel, qualifications and responsibilities will be provided to NCDENR.

Additional information is presented in the attached Operations Plan document.

22. A narrative description of the operation from the truck arriving at the site, through all steps of the transfer station operation, to the point of waste removal. Describe the traffic flow and procedures for loading and unloading of waste. Please refer to Item #18 above where a description of the transfer station operation is presented along with a description of the equipment being used in the daily operation of the transfer facility.

Additional information is presented in the attached Operations Plan document.

23. If the facility will take both MSW waste and C&D waste to be loaded for transport separately, describe record keeping of the type of the load at the scalehouse. Describe how the site operators and truck drivers will ensure that each waste load is unloaded at the correct area (e.g. commercial waste must be unloaded at the area for transport to a MSW landfill, not for transfer to a C&D landfill). Only MSW waste is accepted at the EWTS for transport to and disposal at the South Wake Subtitle D Landfill. C&D waste will not be accepted.

Additional information is presented in the attached Operations Plan document.

24. Describe method for screening loads for unacceptable waste.

Transfer station staff are trained to visually screen waste loads as they come into the facility for any prohibited wastes. Should unpermitted wastes be found in the waste stream, the area where the waste is located on the tipping floor is coned off and monitored until being collected by the generators of the waste and properly disposed of at an approved waste facility.

Additional information is presented in the attached Operations Plan document.

25. Describe surface water control features, including run-on and run-off.
Exterior drains around the perimeter of the transfer facility collect storm water runoff that is not contaminated by waste. Rainfall or run-on surface water contaminated by waste, along with run-off or wash water used to clean the tipping floor is collected, stored and treated as explained in Item #18 above.
Additional information is presented in the attached Operations Plan document.

26. Describe the collection, storage, and disposal of leachate, wash water, and contaminated rainfall runoff. Runoff from the tipping floor area and waste/recyclable storage areas should be collected and treated as leachate. Leachate must either be collected in a holding tank, pumped as needed, with disposal at a wastewater treatment plant, or leachate may flow directly to a sanitary sewer system with disposal at a wastewater treatment plant.
Please refer to Item #18 above for a general description of the collection, storage, disposal and treatment of leachate and contaminated rainfall/runoff at the transfer station facility.
Additional information is presented in the attached Operations Plan document.

27. Plan for cleaning and washing down the tipping floor on a daily basis. Plan for maintaining facility property in a sanitary condition and actions to be taken to minimize noise, vectors and odors. The tipping floor should be clear of waste at the end of each operating day.
No waste will remain on the tipping floor at the end of each day's operation.
Additional information is presented in the attached Operations Plan document.

28. Plan for litter and dust control. Procedures to prevent blowing litter from leaving the onsite management areas and from leaving the property.
This information is presented in the attached Operations Plan document.

29. Description of any special waste handling (waste tires, white goods, yard waste, recyclables, etc.). Description of any processing of waste. If wood waste and/or

yard waste is to be processed onsite into mulch, provide documentation of compliance with State rules for compost facilities, 15A NCAC 13B. 1401.

Any scrap tires, lead acid batteries and “white goods” received at the EWTS will be pulled from the waste stream and set aside for transport to the Wake County Multi-Materials site off Durant Road in North Raleigh. Wooden pallets are also pulled from the waste stream and transported to the City of Raleigh’s yard waste facility for recycling through their grinding process and used for mulch, along with any yard waste. No recyclables will be accepted at the EWTS. However, any plastic bottles or aluminum cans included in the waste will remain in the waste. No special waste handling or processing of waste materials or wood waste will be performed at the EWTS.

Additional information is presented in the attached Operations Plan document.

30. Plan for fire prevention and actions to be taken in the event of an accidental fire. Heat of rise detectors, from Simplex, are located in the transfer tunnel to detect any increases in temperature for fire prevention purposes. The locations of the heat of rise detectors in the transfer station tunnel are being updated as part of the current rehab project to prevent future damage. The system of detectors is monitored by an alarm service controlled by Wake County GSA. The City of Raleigh fire department is automatically dispatched to the EWTS when the system is activated. The transfer station operator will assist the fire department wherever possible by helping to separate and/or isolate the source of any fire. The transfer station operator in addition to performing monthly fire extinguisher checks also conducts monthly safety meetings to address any safety or fire related concerns.

Additional information is presented in the attached Operations Plan document.

31. Describe record keeping (daily records of amounts by weight received by County of origin, waste screening, inspection records, training). The facility must also keep a copy of the permit, operations plan, and site drawings onsite at all times. Waste tonnages, both incoming and outgoing, along with where the waste was generated are tracked daily by Wake County based on the tickets generated at both the transfer station scalehouse and the South Wake landfill scalehouse. The information is then transmitted to Wake County’s computer server for processing and reporting.

Additional information is presented in the attached Operations Plan document.

32. Contingency plans for equipment breakdown, non-conforming waste delivered to the facility, spills, vectors, noise, odors, unusual traffic patterns, long-term power outages affecting the compactor and leachate pump station, etc.

This information is presented in the attached Operations Plan document.

Section 7 – Signature Pages

Please refer to the attached signature pages required under this section. The City of Raleigh, as the landowner, and Wake County, as the EWTS operator, are both permit holders and therefore both considered applicants during the permit renewal process. Both the City of Raleigh and Wake County have signed the attached signature pages as required for the submittal of the East Wake Transfer Station permit renewal application.

Certification by Land Owner (if different from Applicant):

I hereby certify that I have read and understand the application submitted by WAKE COUNTY for a permit to operate a C&D transfer station/recycling operation on land owned by the undersigned located at (address) 820 CORPORATION PARKWAY; (city) RALEIGH, NC, in WAKE County, and described in Deed Book and Page(s) Book 8392 PAGE 1370.

I specifically grant permission for the proposed C&D transfer station/recycling operation planned for operation within the confines of the land, as indicated in the permit application. I understand that any permit will be issued in the names of both the operator and the owner of the facility/property. I acknowledge that ownership of land on which a solid waste management facility is located may subject me to cleanup of said property in the event that the operator defaults as well as to liability under the federal Comprehensive Environmental Responsibility, Compensation and Liability Act ("CERCLA"). Without accepting any fault or liability, I recognize that ownership of land on which a solid waste management facility is located may subject me to claims from persons who may be harmed in their persons or property caused by the solid waste management facility.

I am informed that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars (\$15,000) per day per each violation of the Solid Waste Management Rules. I understand that the Solid Waste Management Rules may be revised or amended in the future, and that the siting and operation of the facility will be required to comply with any such revisions or amendments.

J. Russell Allen
Signature

1/28/13
Date

J. Russell Allen, City Manager
Print name

NORTH CAROLINA

WAKE County

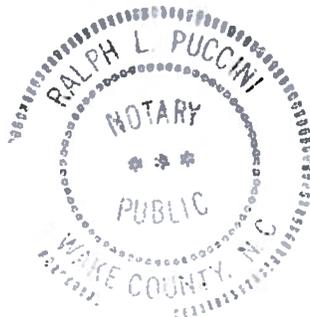
I, RALPH L. PUCCINI, Notary Public for said County and State, do hereby certify that J. RUSSELL ALLEN personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 28th day of January, 2013.

(Official Seal)

Ralph L. Puccini
Notary Public RALPH L. PUCCINI

My commission expires 9/19/16.



Certification by Operator (if different from Applicant):

Name of facility East Wake Transfer Station

Wake County has an agreement with the transfer station/recycling operation owner to operate a C&D transfer station/recycling operation on the land and the land owner has specifically granted permission for the operation of the facility. I understand that both the operator and owner are jointly and severally liable for improper operations and proper closure of the C&D transfer station/recycling operation.

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.

[Signature]
Signature

John Roberson
Print Name

1/24/13
Date

Solid Waste Director
Title

Wake County Government
Business or organization name

NORTH CAROLINA
Wake County

I, DEBORAH A. PETERSON, a Notary Public for said County and State, do hereby certify that John Roberson personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 24th day of January, 2013.

(Official Seal) **DEBORAH A. PETERSON**
NOTARY PUBLIC
Wake County
North Carolina
My Commission Expires 11/9/2013

Notary Public Deborah A. Peterson

My commission expires November 9, 2013

Signature page of applicant -

Name of facility East Wake 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.


Signature

John Roberson
Print Name

1/24/13
Date

Solid Waste Director
Title

Wake County Government
Business or organization name

OPERATIONS PLAN AND PROCEDURES MANUAL

EAST WAKE TRANSFER STATION

**WAKE COUNTY SOLID WASTE MANGEMENT DIVISION
WAKE COUNTY, NORTH CAROLINA
Permit No. 92-33T**

January 2013

OPERATIONS PLAN AND PROCEDURES MANUAL EAST WAKE TRANSFER STATION

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OPERATIONS PLAN AND PROCEDURES MANUAL EAST WAKE TRANSFER STATION

1.0 INTRODUCTION

1.1 Purpose

The purpose of this updated version of the Operations Plan and Procedures Manual (OPPM) is to renew the Permit to Operate previously issued by the North Carolina Department of Environment and Natural Resources (NCDENR) Solid Waste Section on May 29, 2008, for the inaugural operation of the East Wake Transfer Station (EWTS) (Permit No. 92-33T) through May 29, 2013. This updated OPPM will address the procedural guidelines required for the continued safety, maintenance and operation of the EWTS for the next 5-year renewal period or until May 29, 2018. This OPPM has been prepared in accordance with the North Carolina Solid Waste Section Rules 15A NCAC 13B .0402 – Operational Requirements for Transfer Facilities and also addresses pertinent operational requirements outlined in Rule .0505 – Operational Requirements for Sanitary Landfills. This OPPM also addresses any changes that may have occurred in the operational status of the East Wake Transfer Station since the permit issue date of May 29, 2008. The OPPM, in addition, will address the following operational requirements:

- Waste Acceptance Criteria
- Facility Operations
- Disease and Vector Control
- Signage and Safety Requirements
- Access and Security Requirements

As stated under Part IV of the General Permit Conditions and pursuant to 15A NCAC 13B .0201(e), the owner or operator must submit a request to the NCDENR, Division of Waste Management, Solid Waste Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans no later than January 29, 2013. It is the intent of this updated document to comply with the General Permit Conditions.

1.2 Facility Location

The East Wake Transfer Station (EWTS), owned by the City of Raleigh Department of Solid Waste Services and operated by the Wake County Solid

Waste Division, is located on City of Raleigh property immediately adjacent to the closed Wilders Grove City of Raleigh landfill and directly east of the new City of Raleigh Solid Waste Division offices located at 630 Beacon Lake Drive, Raleigh, NC 27610. The site is bounded by Crabtree Creek, I-440, former soil borrow areas and the closed landfill south of the main disposal unit that closed in 1997. The transfer station facility is situated on a 14.7 acre tract of land at the south end of Corporation Parkway that includes a tipping building, concrete tipping floor, two open pits with metal plated concrete push walls for loading transfer trucks, covered truck loading facilities (lower transfer tunnel) and concrete access roads. The East Wake Transfer Station property is zoned by Wake County as 1-1 (light industrial) and therefore suitable for the operation of public facilities including solid waste transfer stations. The mailing address for the East Wake Transfer Station is:

830 Corporation Parkway
Raleigh, NC 27610

1.3 Facility Description

This Operations Plan has been developed for the continued operation of the East Wake Transfer Station (EWTS) for the next 5-year renewal period or until May 29, 2018. The transfer facility is owned by the City of Raleigh and designed to operate as a tipping system under the operational authority of Wake County. The County will control and operate the gates and scale house at the EWTS with Wake County Solid Waste Management Division (SWMD) staff. Wake County has contracted with East Coast Recovery, LLC (ECR) to operate the transfer facility and serve as waste hauling contractor. The transfer station operator will be responsible for waste acceptance, tipping floor management, loading and hauling of MSW waste, as well as general facility operation and maintenance. The SWMD and transfer facility operator will be required to comply with the provisions outlined in this Operations Plan. The current contract between Wake County and ECR is to extend until June 30, 2013, after which a new contract for operation of the transfer facility is to be implemented. Wake County is currently preparing an RFP for operation of the transfer facility beyond June 30, 2013. Depending on the RFP selection process, ECR may or may not be selected to continue operating the East Wake Transfer Station. The NCDENR Solid Waste Section will be notified as to any changes with regard to the facility operator.

The East Wake Transfer Station consists of a tipping building enclosure, tipping floor, tipping building apron and paved concrete access roads to the apron area on the north side of the building and lower drive-thru truck bays or transfer

tunnel on the south side of the building. The tipping floor enclosure consists of a metal building with metal roof, a concrete tipping floor, concrete push walls with metal plating for added wear and two push pits for loading trucks entering the facility on the lower level or transfer tunnel. The transfer trailers are loaded using (2) rubber-tired front end loaders and (1) rubber-track excavator with a 30-foot boom to compact the loaded waste in the transfer trucks. No stand alone compactors or weigh hoppers are used at the transfer facility. Three exhaust fans are located along the south or rear wall of the transfer building for odor control and to maintain air quality within the operating area/tipping floor. The high strength concrete tipping floor, concrete push walls and metal plating used to protect the concrete push walls are currently being replaced or upgraded as part of an ongoing rehabilitation project.

Wash water from the concrete tipping floor and the two lower drive-thru bays used for loading trucks is collected and directed to an onsite lift station for discharge to the City of Raleigh sewer system and treatment at the City of Raleigh Wastewater Treatment Plant. The same process is used to collect rain water that comes in contact with the waste. The transfer facility will continue to transfer all MSW waste received at the facility to the South Wake Subtitle D Landfill during the 5-year renewal period.

The transfer station operator maintains an office at the facility through which the operator can be contacted. Contact information is provided in the permit renewal application, as well as in this updated Operations Plan. The facility office is equipped with a telephone service and will have a responsible person in charge available at all times while the facility is in operation. The operator will also provide an on-call service seven days per week so that the County can contact the operator in the event of an emergency or in the case of unexpected or special waste disposal activities at the transfer facility. The operator will keep the County informed at all times as to the name and contact information for the employee on-call. The operator will also designate an employee as safety officer for the transfer facility. The transfer facility operator currently conducts monthly onsite safety and/or training meetings.

The operator will maintain detailed records of all transfer station operations and make such records available for inspection by the County or any authorized representative of the County and/or the City of Raleigh. All dealings, contacts, etc. between the County and the transfer station operator will be directed to the primary contact person designated by each party. The primary contact persons for issues concerning operation of the East Wake Transfer Station are:

Wake County – Mr. Johnny Beal, Solid Waste Specialist
Wake County Solid Waste Management Division
P.O. Box 550
Raleigh, NC 27602
(919) 291-7322
[www.jbeal@wakegov.com](mailto:jbeal@wakegov.com)

EWTS Operator – Mr. Tommy Smith, General Manager
East Coast Resources, LLC
830 Corporation Parkway
Raleigh, NC 27610
(919) 212-8080
[www.tsmith@eastcoastresources.com](mailto:tsmith@eastcoastresources.com)

2.0 WASTE ACCEPTANCE CRITERIA

2.1 Acceptable Waste

The transfer station will accept only those wastes for which the facility is permitted, namely the municipal solid waste (MSW) to be disposed of in the permitted South Wake Subtitle D Landfill. The East Wake Transfer Station will accept only MSW waste (i.e. residential, commercial and industrial waste) generated within the Wake County service area. No waste will be accepted from outside of Wake County.

2.2 Prohibited Waste

No C&D waste will be accepted at the East Wake Transfer Station. In addition, barrels and drums will not be accepted unless they are empty and perforated sufficiently to ensure that they contain no liquids or hazardous wastes. Yard wastes or any other recyclable materials will not be accepted, along with infectious waste, medical waste, animal waste, animal carcasses, sludge or radioactive waste. Aluminum cans and plastic bottles, if encountered in the waste stream, are approved by the NCDENR as being acceptable for disposal given the stringent nature of the recycling process. Yard waste will also be accepted at the East Wake transfer facility. Yard waste will be directed to permitted yard waste disposal facilities. A report will be prepared by the transfer station operator to document any attempted delivery of waste which the transfer facility is not permitted to accept, including waste from outside the permitted transfer station service area. Reports will be presented to Wake County for reporting to the NCDENR Solid Waste Section.

Any scrap tires, lead acid batteries or “white goods” received at the EWTS will be pulled from the waste stream and set aside for transport to the Wake County Multi-Materials facility off Durant Road in North Raleigh for recycling. Wooden pallets are also pulled from the waste stream and transported to the City of Raleigh’s yard waste facility for recycling through their grinding process and used for mulch, along with any yard waste. However, any plastic bottles or aluminum cans included in the waste will remain in the waste. Otherwise, no recyclables are accepted at the East Wake Transfer Station. Under the current Operating Plan, any regulated medical waste/sharps, hazardous or liquid wastes received at the EWTS are collected, transported and disposed of at an approved facility by outside vendors under contract by the transfer facility operator, should the facility operator be unsuccessful in contacting the waste generator. No special waste handling or processing of waste materials or wood waste will be performed at the East Wake transfer facility.

2.3 Waste Screening Procedures

Transfer station staff are trained to visually screen waste loads as they come into the facility for any prohibited wastes. Should unpermitted wastes be found in the waste stream, the area where the waste is located on the tipping floor will be coned off and monitored until being collected by the generators of the waste or properly disposed of at approved solid waste facilities by contracted vendors. Random inspections of incoming loads will be conducted at the transfer facility at a rate to be determined by the transfer station operator, but should be conducted at least on a bi-weekly basis. Haulers will be asked to describe the origin and contents of their waste load as part of the random screening.

For any attempted unacceptable wastes delivered to the transfer facility, the facility operator is to record the following.

- Date, time and name of inspector
- Hauler name, driver name and type of truck
- Source of load
- Description of load
- Record estimated quantity
- Provide photos and/or videos as appropriate
- Final disposition of waste load

Waste that is not acceptable will be reloaded onto the waste truck that brought it to the transfer station and removed from the facility. Where this is not practical or safe, a properly trained and equipped hauling contractor will be contacted to properly handle and dispose of the waste load.

3.0 TRANSFER STATION OPERATIONS

3.1 Operating Hours

The East Wake Transfer Station operating hours are from 7:00 AM to 4:00 PM, Monday through Saturday, including Labor Day and Memorial Day. Current operating hours are from 6:00 AM to 3:00 PM, Monday through Saturday to accommodate the ongoing rehabilitation project at the transfer facility. Wake County is considering permanently changing the operating hours from 6:00 AM to 3:00 PM, Monday through Saturday. Should Wake County elect to change the operating hours the NCDENR Solid Waste Section will be notified prior to implementing any changes in the operating hours. Any changes in the operating hours will be updated on facility signage before going into effect. In addition, all vendors currently using the facility will be notified of the change in operating hours before the new hours go into effect. In the event of an emergency or for needed maintenance the transfer facility may, in addition, be open on Sundays and/or outside of regular work hours, as needed, to address unexpected or unplanned events. For planned operations the transfer station will be closed New Year's Day, Fourth of July, Thanksgiving Day and Christmas Day. Signage has been posted at the entrance to the transfer station facility identifying the hours of operation.

3.2 Facility Access

Vehicle access is restricted to the access road at the southern end of Corporation Parkway at the location of transfer station scale house. There are no other access roads into the transfer station facility. All waste haulers are directed to pass over one of two inbound weigh scales. All other vehicles are directed to the bypass lane, which is controlled by a remote gate. Access to the transfer facility during operating hours is controlled by scale house personnel. Only those with business at the transfer facility, including customers, staff, maintenance personnel, etc. are allowed access into the facility. The transfer facility is not open to the public. Gates at the entrance to the scale house will be locked to restrict vehicle access when the transfer facility is closed. The entire perimeter of the transfer facility is fenced to restrict pedestrian access. The perimeter fencing is visually checked on a regular basis to identify any breaches in the fencing and to make repairs as needed. The transfer station operator's main office building and adjacent buildings are locked when the facility is closed. Surveillance cameras have been installed to monitor the facility after hours. Any unauthorized facility access or illegal dumping will be reported to the Wake County Solid Waste Management Division, City of Raleigh, the NCDENR Solid Waste Section and the City of

Raleigh Police Department. An incident report will be kept on file by the transfer station operator.

3.2 Tipping Floor Operations

Collection vehicles delivering residential, commercial and industrial waste to the transfer facility will first proceed to the new East Wake Transfer Station scale house to be weighed in using one of the two inbound weigh scales. Waste delivery vehicles are then directed via signage and concrete access roads to circle around the south side of the transfer building to then enter the transfer building on the north side to discharge their waste load within the enclosed transfer building on the concrete tipping floor. Waste delivery vehicles will be directed to back onto the concrete tipping floor by the transfer station attendant to an area designated by the attendant. Once the waste vehicle is in position and the waste has been inspected by the attendant the waste load will be discharged directly onto the tipping floor. The waste delivery vehicle will then be given the OK to leave the tipping floor by the transfer station attendant once the area to depart is clear of any personnel or obstructions. Unloaded waste vehicles are then directed back to the scale house to weigh out empty so as to determine the waste tonnage delivered to the transfer facility by each waste vehicle.

Operators using one of the two available front end loaders with protective hard rubber padding on the underside of the front bucket and specially designed hard rubber tires will then continuously push the discharged waste along the concrete tipping floor to either one of two open pits located at the south end of the upper level tipping floor. Open top transfer trailers will pull into lower drive-thru truck bay or transfer tunnel to align themselves beneath the open pits. Once the transfer trailer is in position the operator will load and compact the waste into the transfer trailer by pushing the waste from the tipping floor into either one of the two open pits ready to accept waste. Once the transfer trailer(s) are completely loaded, they are compacted in place using a rubber-tracked excavator with a 30-foot boom. Each load is then driven directly to the permitted South Wake Subtitle D Landfill for disposal. All loads will be covered with tie-down tarps during transport to control wind-blown trash.

The loaded transfer trailers are first weighed in at the South Wake landfill scale house prior to unloading at the working face and then weighed in again at the scale house when empty to determine the waste tonnage delivered to the landfill. Weigh tickets generated at both the transfer station scale house and the landfill scale house are provided to Wake County to determine the tonnages delivered to each waste facility for reporting to the NCDENR Solid Waste Section and for invoicing the waste generators.

The tipping floor and two lower drive-thru bays will be washed down periodically during daily operations and at the end of each work day to remove accumulations of waste residue, which otherwise could become a safety hazard. The wash water drains to the transfer tunnel where it is collected in a sewer lift station and then discharged to the City of Raleigh sewer system waste for treatment at the City of Raleigh Wastewater Treatment Plant. Rain water or run on water into the facility that has come in contact with waste is also considered leachate and collected and treated using the same process as the wash water.

The transfer station operator will have the right to reject materials or reject unacceptable loads in accordance with the permit conditions that would cause a violation of the Solid Waste Section standards, rules or regulations. The transfer station operator will take title of the waste when accepted at the East Wake Transfer Station and will retain title until the waste is disposed of in the permitted South Wake Subtitle D Landfill. As stated above, the County limits the delivery of waste to the transfer station to waste generated within Wake County.

The transfer station operator will provide all the equipment and labor needed to receive and process waste deliveries in a reasonable and efficient manner, including having backup equipment and additional labor on-call as needed to address transfer station operations. The transfer station operator will operate the East Wake Transfer Station in accordance with all prescribed permit conditions, applicable laws and permits, standards, rules and regulations. The transfer station operator will make reasonable efforts to accommodate delivery of waste during other than regular work hours following reasonable notice from the County. No waste is to remain on the tipping floor at the end of each work day.

The transfer station operator will provide traffic control while equipment is operating on the tipping floor and while waste vehicles are entering and departing from the transfer facility. Any equipment that becomes inoperable while the transfer station is operational will be removed so as not to obstruct the traffic flow. The transfer station operator will also be required to have back up equipment available at all times so as not to delay daily operations should equipment breakdowns occur.

The transfer station operator will be required to comply with Rule .0505(8)(c) of the North Carolina Solid Waste Management Rules by obtaining and maintaining a valid Wake County Solid Waste Collectors License.

The transfer station operator will be responsible for all utility expenses associated with the operation of the East Wake Transfer Station. The operator will also be responsible for the protection of existing transfer station infrastructure including buildings, paved access roads and drainage ways at the transfer station facility, within the City of Raleigh property limits, associated with operation of the transfer station. Any damage to the City of Raleigh property resulting from actions of the transfer station operator or the operator's employees will be restored or repaired to a condition satisfactory to the County and City of Raleigh at the operator's expense. Failure of the operator to make repairs as a result of damage to the existing facilities will result in the County making the necessary repairs and deducting the costs for repairs from payments due the transfer station operator. The transfer station operator will not be held responsible for any property damage caused by the City, County or other outside parties using the transfer facility, including independent waste haulers.

The transfer station operator will be responsible for meeting all health, environmental and safety standards applicable to operation of the East Wake Transfer Station together with any ancillary facilities. If any unacceptable waste is detected in a delivery, the waste load and vehicle will be isolated from all other transfer station operations and the waste screening protocol implemented by the transfer station operator to include notifying the appropriate authorities and contacting the generators of the waste. Records will be maintained by the transfer station operator as to the designated disposal location for unacceptable waste.

A certified transfer station operator will be required to be onsite at all times and all transfer station employees certified in hazardous waste identification. All vehicles, containers, trailers and other equipment are required to be maintained in good repair, appearance and sanitary condition at all times. Each vehicle operating at the transfer station is to be clearly identified with contact numbers. The transfer station operator will be responsible for daily cleanup of the work site including picking up refuse and other items (e.g. refuse spilled while loading transfer trailers or other daily operations).

In transporting the waste to and from the transfer station facility the transfer station operator will be responsible for enforcing that all waste vehicles to cover, contain, tie down or by some other method enclose all solid waste such that leaking, spillage and blowing of waste is prevented. The transfer station operator will also be responsible for compliance with all local, state and federal rules, regulations and laws concerning the transportation of waste materials and

equipment associated with the operation of the East Wake Transfer Station, including but not limited to OSHA, DOT and DMV requirements.

All solid waste collected at the transfer station will be transported to and disposed of at the permitted South Wake Subtitle D Landfill solid waste facility.

The transfer station operator will not be charged for the disposal of solid waste at the South Wake landfill.

4.0 DISEASE AND VECTOR CONTROL

4.1 Vector Control

In accordance with Rule .0505(12)(a), Wake County will be responsible for providing effective vector control measures for the protection of human health and the environment. Vector control at the transfer facility includes air borne or water borne sources. 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 implementing a daily cleaning program, which will include but not be limited to the removal of waste, leachate and ponded water from the transfer station tipping floor and other operating areas within the facility. The removal of waste from the tipping floor at the end of each day's operation will protect against the migration of vectors into and from the transfer station. Stagnant or ponded water will be prevented from occurring to control mosquito breeding.

4.2 Rodents and Flies

To control potential disease vectors the County may retain the services of a licensed exterminator or other professionals to abate the problem. However, vectors such as flies and rodents are not expected to be of concern with removal of the waste and wash down of the tipping floor at the end of each day's operation.

5.0 SIGNAGE AND SAFETY REQUIREMENTS

5.1 Signage

Signage at the East Wake Transfer Station has been posted to comply with Rule .0505(9)(a)(b)(c) addressing the hours of operation, contact information for both the County and the transfer station operator, a description of the types of waste accepted at the facility, what wastes are prohibited from being accepted at the facility, the facility permit number, emergency contact numbers and other warnings or restrictions associated with delivering MSW waste to the transfer facility. Signs have also been posted at the entrance to the facility and within the facility grounds to direct traffic. Signage directing all waste haulers to the weigh scales and all visitors and work staff to the bypass lane and the transfer station offices has been posted at the entrance to the scale house at the end of Corporation Parkway. Inside the facility signage has been posted directing the waste haulers to the tipping floor apron area and transfer trailers to the lower truck bay. The signage currently posted addresses all the items noted above. Should there be any changes to the operating hours, traffic control, etc.; the signage will be promptly updated.

5.2 Open Burning of Waste

In accordance with Rule .0505(10)(a), the open burning of waste will not be permitted at the East Wake Transfer Station.

5.3 Fire Protection and Prevention

In accordance with Rule .0505(10)(b), the transfer station operator will be responsible for providing equipment to control accidental fires and will also be responsible for arranging with the local fire protection agency to provide fire-fighting services when needed. In addition, the transfer station building will be equipped with the required number of fire extinguishers and one fire hydrant, to effectively control accidental fires. Rate of rise type heat detectors, from Simplex, are located in the transfer tunnel to detect any increases in temperature for fire prevention purposes. The “rate of rise” detectors are currently being relocated within the transfer tunnel as part of the current rehabilitation project to prevent any future damage to the detectors. The system of detectors is monitored by an alarm service controlled by Wake County GSA. The City of Raleigh fire department is automatically dispatched to the EWTS when the system is activated. Audible and visual alarms located on the tipping floor level will also

be activated. The transfer station operator will assist the fire department wherever possible by helping to separate and/or isolate the source of any fire.

All transfer facility buildings will be equipped with the number and type of fire extinguishers required by the City of Raleigh Fire Department and applicable fire codes. The transfer station operator and fire department staff will conduct periodic inspections of fire suppression equipment and promptly service or replace equipment as needed. The transfer station operator in addition to performing monthly fire extinguisher checks also conducts monthly safety meetings to address any safety or fire related concerns.

Should a “hot load” be delivered to the transfer facility the load will be discharged on the tipping floor away from other waste so the fire cannot spread and to allow sufficient clearance for fire fighters to extinguish the fire.

For any “hot loads” discharged on the tipping floor, the nature of the waste in the load is to be visually checked for any hazardous or toxic materials. Should the potential for any toxic or hazardous materials be observed the Fire Department is to be contacted immediately. If needed, the area around the waste load can be contained by placing loads of soil around the waste in question. Vehicles, personnel and other waste are to be kept a safe distance until the situation is resolved. Once the “hot load” has been extinguished and it has been determined that no hazardous or toxic materials are present, the waste can be loaded into a transfer trailer for transport to the landfill.

5.4 Notification of Fire

The transfer station operator will be required to contact Wake County directly by phone or in person to report fires that accidentally occur at the East Wake Transfer Station. The County is to be notified as soon as possible, but no later than the end of the work day that the fire occurred. The transfer station operator will be required to document such events as part of their required daily record keeping.

5.5 Safety Equipment

All operations staff and visitors working on the tipping floor will be required to wear proper safety equipment, including steel toe shoes, safety vests, as well as eye and hearing protection. In addition, all workers will be required to wear gloves, hard hats or harnesses, as appropriate, for added safety protection. All personnel will be properly trained in the proper use of safety equipment and safety procedures.

All heavy equipment, including waste trucks, are to be equipped with back-up alarms. Restricted areas for equipment and personnel are to be clearly marked and cordoned off. Portable safety barriers are to be placed at the leading edge of the loading pits when the pits are inactive. Barriers are to be of sufficient size to prevent work staff from falling into the openings.

6.0 ACCESS AND SECURITY REQUIREMENTS

6.1 Transfer Station Access and Security

All vehicles delivering waste to the transfer station will be required to enter and exit through the access control gate at the entrance to the transfer station scale house. Unauthorized vehicle access to the transfer facility will not be permitted and will be monitored by the scale house and transfer station operators throughout each day's operation. Unauthorized vehicles will be redirected to the appropriate waste disposal facilities.

6.2 Attendant

Wake County will provide a full-time scale operator located in the scale house at the entrance to the East Wake Transfer Station during transfer station operating hours to weigh incoming waste loads and outgoing empty waste vehicles. Both the scale operator and the transfer station operator will work together to verify that all waste vehicles delivering waste to the East Wake Transfer Station comply with the permitted transfer station operations.

6.3 Access Roads

The transfer station operator will be responsible for maintaining and cleaning all paved access roads on a daily basis, including but not limited to the paved access roads located between the transfer station scale house the transfer station tipping building. Wake County is to be contacted for authorization of any repairs to the transfer facility access roads associated with operation of the East Wake Transfer Station.

Operation of the transfer facility will require strict adherence to traffic controls and the traffic routes identified by signage at the facility. Portions of the access road around the tipping building are one way to maintain traffic flow. Incoming waste trucks and transfer trailers are restricted to their designated routes and are to be kept separated from one another wherever practical. Empty transfer trailers will be limited to a designated staging/storage area at the transfer facility.

7.0 MISCELLANEOUS

7.1 Litter Control

The operator will also be responsible for cleanup of wind-blown debris resulting from daily transfer station operations. At the end of each day's operation, wind-blown debris resulting from operation of the transfer station will be collected and returned to the transfer facility by the transfer station operator for proper disposal. Litter may be generated by uncovered or secured loads, from transfer trailer loading operations in the lower bay, as well as from the tipping floor itself. Cleanup will include all areas within the transfer station site limits, as well as other areas on adjacent City of Raleigh property that can reasonably be attributed to transfer station operations. The spillage of refuse from transfer trailers is to be minimized by requiring that all loads be covered with tie-down tarps, as well as requiring all transfer trailer operators to reduce their speed between the scales and the tipping floor. The transfer station operator will also be required to discharge all incoming loads on the tipping floor well within the covered transfer building. Maintenance of the skirts around the transfer pits and proper staging of the transfer trailers while loading waste in the lower bay area is to be part of the daily transfer station operation to control debris. Litter fencing is to also be used by the transfer station operator to control wind-blown debris.

7.2 Dust Control

The transfer station operator in addition to removing debris from all paved access roads is to use a water truck to apply water to road surfaces when needed to control dust. Road surfaces will also be kept clean by removing any mud tracked into the transfer facility to reduce creating dust when access roads are used by the transfer trucks.

7.3 Noise Abatement

Noise is a normal part of facility operations at the transfer facility both inside and outside the transfer building and is therefore considered acceptable during operating hours. Given the isolated location of the transfer station, the impact of higher noise levels at the facility is less likely to have an impact surrounding businesses. Operation of the transfer station will however comply with all noise ordinances in effect within the City of Raleigh limits.

Generally noise levels are greatest within the transfer station building during the unloading of waste trucks onto the tipping floor and while loading waste into the transfer trailers. As a result, facility staff will be provided with hearing protection while working in high noise level areas.

Haulers using waste vehicles with excessively loud exhaust systems will be directed to make repairs before continuing to use the transfer facility.

7.4 Odor Control

The transfer station operator will also be responsible for odor control. Three exhaust fans are located along the south or rear wall of the transfer building for odor control and to maintain air quality within the operating area/tipping floor. Wash down of the tipping floor on a daily basis will also help to reduce odors. In addition, loaded transfer trailers will be covered immediately after loading and prior to transport to the landfill for disposal to help control odors. Filled trailers will not remain at the transfer facility for more than 24 hours before being transported to the landfill, except under emergency conditions.