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**February 13, 2013**  
Solid Waste Section  
Asheville Regional Office



OPERATIONS PLAN  
SOLID WASTE TRANSFER STATION  
GRAHAM COUNTY, NORTH CAROLINA  
2012-2013

# OPERATIONS PLAN

## SOLID WASTE TRANSFER STATION GRAHAM COUNTY, NORTH CAROLINA

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OPERATIONS PLAN  
SOLID WASTE TRANSFER STATION  
GRAHAM COUNTY, NORTH CAROLINA  
2012

I. INTRODUCTION

A. Purpose of Plan

This operations plan has been developed for the proposed Solid Waste Transfer Station located in Graham County, North Carolina. This plan has been prepared in accordance with the requirements of the North Carolina Department of Environment, Health, and Natural Resources (DENR), Division of Solid Waste Management, Solid Waste Rules (15A NCAC 13B).

B. Facility Location

Graham County is currently proposing a new location for the Solid Waste Transfer Station approximately seven (7) miles southeast of Robbinsville, N.C. on Hwy 129 South with approximately 11.72 acres of land. Attached as Appendix 5 are the drawings for the new location site including the 100 year flood zone and the property records. The proposed site will contain the transfer station, scale house facility, recycling bins and household drop-off dumpsters.

C. Service Area

The Transfer Station will provide service for all of Graham County.

II. OPERATIONS PROCEDURES

A. Overview

The Transfer Station will consist of a pre-engineered metal building with an approximate 2,400 ft tipping floor and lowered access / loading corridor for transfer trucks. Incoming waste collection vehicles will deposit municipal solid waste (MSW) and construction and demolition (C /D) waste directly onto the concrete tipping floor of the facility. Once the MSW & C/D has been dumped onto the tipping floor, it will be inspected for illegal wastes and/or hazardous wastes. Illegal and hazardous wastes will be diverted from the waste stream and disposed of properly in a hazardous waste landfill. Once the waste has been inspected for unacceptable materials, a loader will push the remaining waste to the rear of the tipping floor where it will be dropped into a transfer truck on the lower level. The waste will then be transferred to the Pine Bluff Landfill Permit #028-039D"SL" in Ballground, Georgia

Normal working hours for the Transfer Station are 7:30 a.m. to 4:00 p.m., Monday through Friday and 7:00 a.m. to 3:00 p.m. on Saturday. The facility is closed on Sunday and the following holidays: New Year's Day, Independence Day, Thanksgiving Day, and Christmas Day.

#### B. Personnel

The facility is owned and operated by Graham County. A minimum of two (2) staff employees is required for the daily operation of the Transfer Station. These employees are properly trained in safety procedures and the inspection of incoming wastes (refer to section D, "Inspection of Wastes"). Training material published by the Solid Waste Association of North America (SWANA) is utilized for initial training of on-site personnel and for continuing education. The Transfer Station employees also direct and coordinate the movement of collection vehicles into and out of the Transfer Station.

#### C. Characterization of Waste Stream

Graham County currently receives approximately 7000 tons of waste each year. Approximately 1,400 tons (20%) of the County's waste stream is construction/demolition waste. Approximately 5,600 tons (80%) of the County's waste stream is MSW waste.

On or before August 1<sup>st</sup> of each year, the owner or operator shall report to the North Carolina Solid Waste Section, for the previous year beginning July 1<sup>st</sup> and ending June 30<sup>th</sup>, the amount by weight of the solid waste that was received at the facility and disposed of in a landfill, incinerated, or converted to fuel. To the maximum extent practicable, such reports shall indicate by weight the county of origin of all solid waste. The owner or operator shall transmit a copy of the report to the county in which the facility is located and to each county from which waste originated.

The transfer station will only accept municipal solid waste, construction/demolition waste, and non-hazardous industrial waste generated in Graham County. Graham County will notify the division within 24 hours of any attempts to dispose of non-permitted waste.

The following wastes are prohibited from disposal at the transfer facility:

Hazardous waste as defined within 15A NCAC 13A, including hazardous waste from conditionally exempt small quantity generators.

Polychlorinated biphenyls (PCB) waste as defined in 40 CFR 761.

Liquid wastes will not be accepted at the transfer facility.

Wastes prohibited by Statute GS 130A-309.10 of the North Carolina Solid Waste Management Rules. These wastes include:

- Wooden pallets
- Used oil and oil filters
- Yard trash
- White goods

Antifreeze (ethylene glycol)  
Whole scrap tires  
Lead acid batteries  
Computer Equipment and Televisions  
Plastic bottles or containers  
Fluorescent lighting ballasts and bulbs

#### D. Inspection of Wastes

Access to the Transfer Station is controlled by properly trained employees, located at the entrance of the facility. As the contents of the collection vehicles are emptied onto the tipping floor, an employee will conduct periodic visual inspections of the waste materials. If unacceptable waste is found, the driver of the vehicle will be instructed to terminate dumping and the unacceptable waste will be reloaded onto the vehicle for removal from the site. Examples of unacceptable wastes include large containers of liquid waste, sludge's, drums that have not been emptied and crushed prior to delivery, and containers either smoking or emitting noxious vapors.

Graham County shall implement a program at the transfer station for detecting and preventing the disposal of unacceptable waste, especially hazardous or liquid waste. The program will include the following:

Transfer station personnel will conduct random inspections of incoming loads. Inspections will occur at the transfer station on the tipping floor. The load will be carefully spread by a front-end loader with personnel trained to identify unacceptable waste, especially hazardous and liquid waste. If unacceptable waste is found, the driver of the vehicle will be instructed to terminate dumping and the unacceptable waste will be reloaded onto the vehicle for removal from the site. The frequency of the random inspections will be based on the type and quantity of waste, but not less than one inspection per week.

If hazardous waste is identified during vehicle dumping, facility personnel will immediately notify the driver and if necessary, contact NCDENR and the Hazardous Materials Emergency Response Team. The appropriate information concerning the waste will be provided to those officials and the recommended steps will be taken until properly trained handlers of hazardous waste arrive on-site. A sign with the words "No Hazardous or Liquid Wastes Accepted" shall be posted on an entrance sign.

Transfer Station personnel will maintain records of each load inspection. These records will be maintained in the operating record of the transfer facility. A copy of the Waste Inspection Form has been included in Appendix 3.

Waste shall not be stored on the tipping floor after operating hours and the tipping floor and the transfer trailer loading area shall be maintained in sanitary, clean condition after operating hours.

Infectious or medical waste haulers are advised that the Transfer Station does not accept such wastes and that the hauler will have to transport the infectious wastes to an approved facility for disposal.

Should a “hot load” occur in a vehicle using the facility; the attendant will not permit the load to be discharged onto the tipping floor. The vehicle operator will be advised to move the vehicle to a gravel or paved area located outside the Transfer Station where the load will be discharged. The local fire department will be notified prior to discharge to identify the cause of the problem and extinguish the load fire. Once the load has been extinguished and the cause determined, the load will be taken into the facility for disposal. No asbestos or animal wastes will be accepted at the Transfer Station.

The above limitations on the types of wastes that will be accepted do not circumvent the incidental wastes that may be found in the residential waste stream that is expected at the facility.

#### E. Traffic Control

Site personnel control access to the Transfer Station. A gate controls the entrance to the transfer station facility. As vehicles arrive at the Transfer Station, site personnel will direct the driver to position the vehicle at the correct unloading location once there is sufficient room to maneuver on the concrete floor. When the contents of the vehicle are emptied, the driver is instructed to move the vehicle away from the tipping floor and exit the Transfer Station.

During times when several vehicles are at the Transfer Station at the same time, haulers are instructed to wait within the staging area located outside the entrance to the building.

#### F. Housekeeping, Litter, and Vector Control

Incoming wastes will be transported to the Transfer Station in covered or enclosed vehicles. Outgoing transfer trailers will also be covered or enclosed. Throughout the day and at the end of each working day, facility personnel will police the building and surrounding site for litter. Collected litter is placed in containers for proper disposal. Two yard hydrants will be available to wash down the concrete tipping floor, lower level floor and adjacent equipment areas when needed. The equipment used for pushing trash on the tipping floor will also have a bucket equipped with a squeegee. Wash down water flows into a trench drain located just inside of the building entrance on the upper level and in the middle of the lower level. The drains will be covered by metal grates to block large debris that might enter the wastewater piping. The metal grate is raked periodically and the collected trash is placed into containers for proper disposal. The drains are connected to a six (6) inch sewer line that flows to a tank that will be pumped and the contents hauled to the Waste Water Treatment Plant as required.

Odors are controlled by prompt unloading and transfer of all delivered wastes at the Transfer Station. The open sides of the building and wall mounted ventilation fans located above the transfer trailer will provide adequate fresh air exchange to control odor problems.

The daily removal of solid waste in conjunction with daily housekeeping procedures effectively controls the development of vector related problems. The tipping floor is constructed of concrete, which is an impervious, readily cleanable

material. Floor and equipment wash-downs at the Transfer Station will also reduce both odor and vector problems. As described previously, wash water will be diverted to drains that connect to a tank that will be pumped and the contents hauled to the Waste Water Treatment Plant as required. Licensed exterminators will also be available to visit the Transfer Station as needed.

#### G. Dust and Fire Control

Periodic wash down of the tipping floor and equipment will prevent excessive build-up of dirt and dust at the facility.

Fire Control is provided by portable hand-held fire extinguishers as well as a yard hydrant located just outside the building. Fire protection will be provided by the local fire department, which is aware of the fire control needs for the facility. In the event that a fire occurs, the local authorities will be notified immediately. The telephone numbers of local fire, police, ambulance and hospital facilities are posted in and around the facility at all times. In the event of a fire at the facility the NCDENR will be notified within 24 hours and written notification will be submitted within 15 days.

#### H. Wastewater Collection

Wastewater flow at the Transfer Station will consist of wash down water from the tipping floor and lower level. On the tipping floor, wash down water will be collected by a trench drain located near the station entrance. Lower level wash down water will be collected in a catch basin located in the center of the lower level. Wash down water from the two areas will flow through gravity lines to a tank that will be pumped and the contents hauled to the Waste Water Treatment Plant as required. To ensure that rainwater does not enter the waste water lines, a metal roof covers the building and the driveways is sloped away from the transfer station floor. The maximum volume of wastewater and wash down water is estimated to be 1,500 gallons per day. A copy of the acceptance letter from the Robbinsville W.W.T.P. is included in Appendix 1.

#### I. Storm Water Management and Erosion Control

Areas adjacent to the Transfer Station are graded away from the building. Gutters and downspouts will also be positioned on the building to divert discharge of storm water to diversion ditches and storm drains.

Standard erosion control practices, such as silt fencing, vegetating slopes, and diversion ditches will be utilized at the site.

#### J. Zoning

Graham County has no zoning requirements for the Transfer Station properties. Correspondence from Graham County concerning zoning is included in Appendix 2.

## K. Facility Inspections

Regular maintenance inspections of the facility will be conducted. The inspections will be conducted by site personnel who are familiar with the buildings and equipment at the site, as well as operations of the facility. Monthly inspections, at a minimum, will include inspections of the following.

- Building, foundation, and push walls
- Ventilation System
- Fire Equipment
- Electrical Systems
- Floor drains and yard hydrant
- Sanitary Sewer Service Lane

If unsatisfactory conditions are noted during the inspection or by Transfer Station personnel at any other time, the concerns will be reported to the Graham County Solid Waste Coordinator. If a safety threat to personnel or to the environment is identified, immediate action will be taken to correct the situation. If necessary, operations at the Transfer Station will be suspended temporarily until the proper corrective actions have been taken. In the unlikely event of a severe accident, the proper authorities will be notified and off-site support requested.

APPENDIX 1

Flow Acceptance Letter from Robbinsville W.W.T.P.

*Town of Robbinsville*  
*PO Box 129*  
*Robbinsville, NC 28771*

*Mayor: Bobby Cagle, Jr.*  
*Clerks: Mandy Sharpe*  
*Shari Birchfield*

*Council: Bobby Smith*  
*Jan Brooks*  
*Jacky Ayers*

October 16, 2012

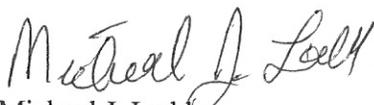
Mr. Greg Cable  
Graham County Manager  
Robbinsville, NC 28771

Dear Mr. Cable

This letter is to notify you that the Town of Robbinsville will accept up to; but not more than 1500 gallons per day of washdown water from the Graham County Solid Waste Transfer Station. This is for washdown only and must contain no solids, except in the trace amounts.

If you have any questions or need further information, please call me at 828-479-6428 or contact the town hall office.

Sincerely

  
Michael J. Ladd  
ORC, Town of Robbinsville WWTP

APPENDIX 2

Zoning Letter from Graham County

*Graham County Board of County Commissioners*

*Mike Edwards*  
*Chairman*

*12 North Main Street*  
*Robbinsville, NC 28771*

*Billy Holder*  
*Vice-Chairman*

*Connie Orr*  
*Member*

*Phone: 828-479-7961*  
*Fax: 828-479-7988*

*Sandra Smith*  
*Member*

*Raymond Williams*  
*Member*

*Kim Crisp*  
*Clerk*

September 26, 2012

RE: Zoning Requirements  
Proposed Solid Waste Transfer Site  
Graham County, North Carolina

To Whom it May Concern:

The proposed Graham County solid waste transfer station is approximately seven (7) miles southwest of Robbinsville, NC is not part of the zoned areas of Graham County. The 11.72 acre property is owned by Graham County, and is located at the intersection of Jack Branch and Tallulah Road. This property is further described in Deed Book 210, Page 30 at the Graham County Registry.

A detailed map of the proposed site, is attached in Appendix 5 of the Solid Waste Operations Plan for Graham County.

Sincerely,



Gregory Cable  
County Manager  
Graham County

APPENDIX 3

Waste Screening Inspection Form

GRAHAM COUNTY TRANSFER STATION (US 129)  
COUNTY MANAGER AND BOARD OF COMMISSIONERS  
12 NORTH MAIN STREET  
ROBBINSVILLE, NC 28771  
828/479-7960

RECORD OF WASTE INSPECTION .

Date: \_\_\_\_\_ Time Crossed Scales: \_\_\_\_\_  
Truck Owner: \_\_\_\_\_ Driver's Name: \_\_\_\_\_  
Truck Type: \_\_\_\_\_  
Vehicle ID# or Tag #: \_\_\_\_\_  
Gross Weight: \_\_\_\_\_ Tare Weight: \_\_\_\_\_ Net Weight: \_\_\_\_\_ Tons: \_\_\_\_\_  
Waste Generating Company/Source: \_\_\_\_\_

Reason Load Inspected: \_\_\_\_\_ random inspection \_\_\_\_\_ staff initials  
\_\_\_\_\_ detained by scale house \_\_\_\_\_ staff initials  
\_\_\_\_\_ detained by T.S. operating staff \_\_\_\_\_ staff initials

Description of wasteload:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Disposition: Load Accepted (signature): \_\_\_\_\_ Date: \_\_\_\_\_  
Load Not Accepted (signature): \_\_\_\_\_ Date: \_\_\_\_\_

\*\* Reason Load Not Accepted: (completed this section only if waste NOT ACCEPTED)

Description of Suspicious Contents:

\_\_\_\_\_ color \_\_\_\_\_ Haz. Waste markings \_\_\_\_\_  
\_\_\_\_\_ texture \_\_\_\_\_ smell \_\_\_\_\_  
\_\_\_\_\_ drums present \_\_\_\_\_

Approximate cu. yds. in load \_\_\_\_\_

Approximate tons present in load \_\_\_\_\_

Graham County Emergency Management Contacted: \_\_\_\_\_ Yes \_\_\_\_\_ No

Hazardous or dangerous materials present: \_\_\_\_\_

Hauler notified (if waste accepted): \_\_\_\_\_

Phone #: \_\_\_\_\_ Time person contacted: \_\_\_\_\_

Other observations: \_\_\_\_\_

Final Disposition: \_\_\_\_\_

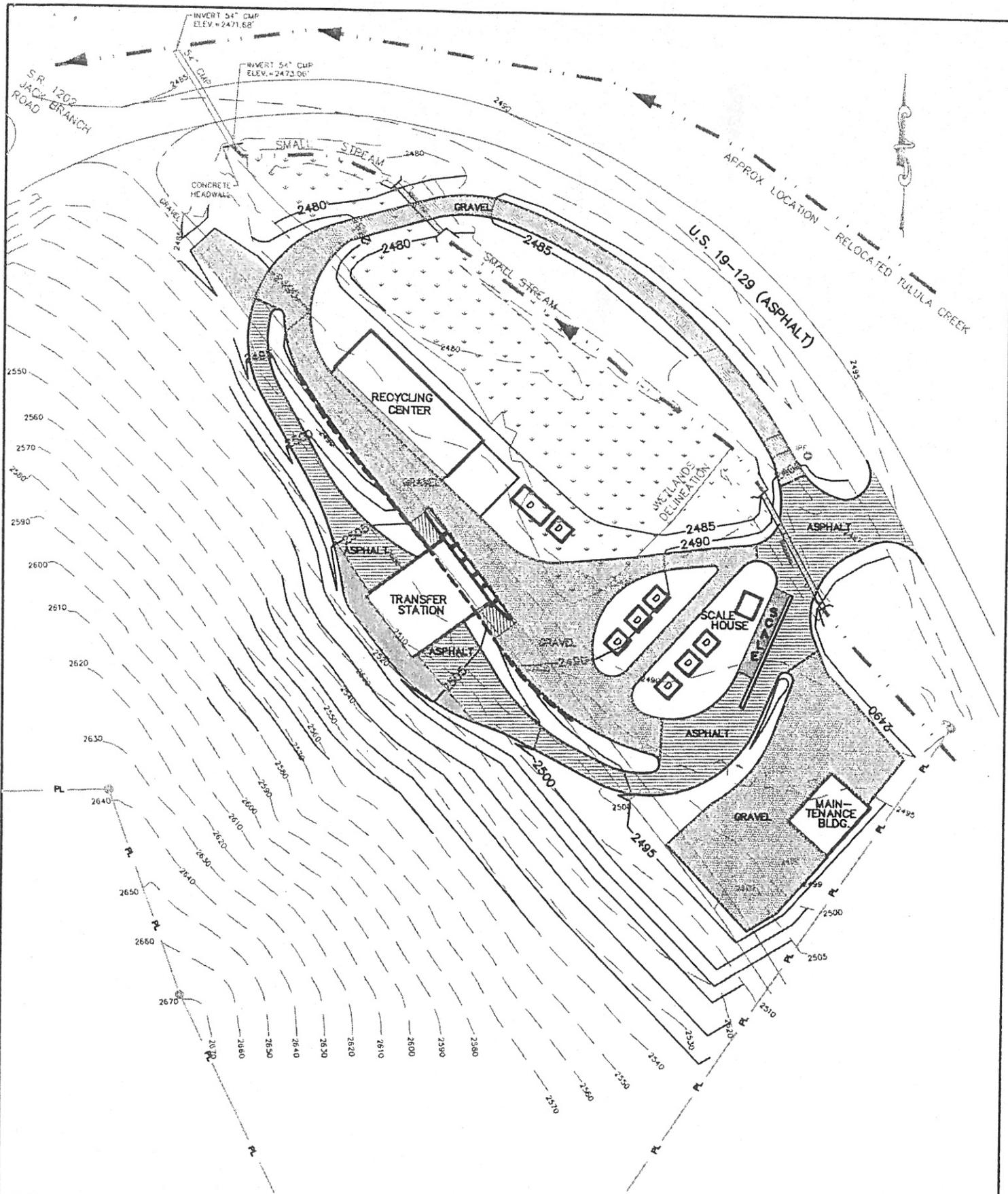
Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

(Waste Screening Inspector or Supervisor)

cc: County Manager

APPENDIX 4

New proposed site



SCALE: 1" = 100'

6/24/02

CONCEPTUAL  
SITE PLAN

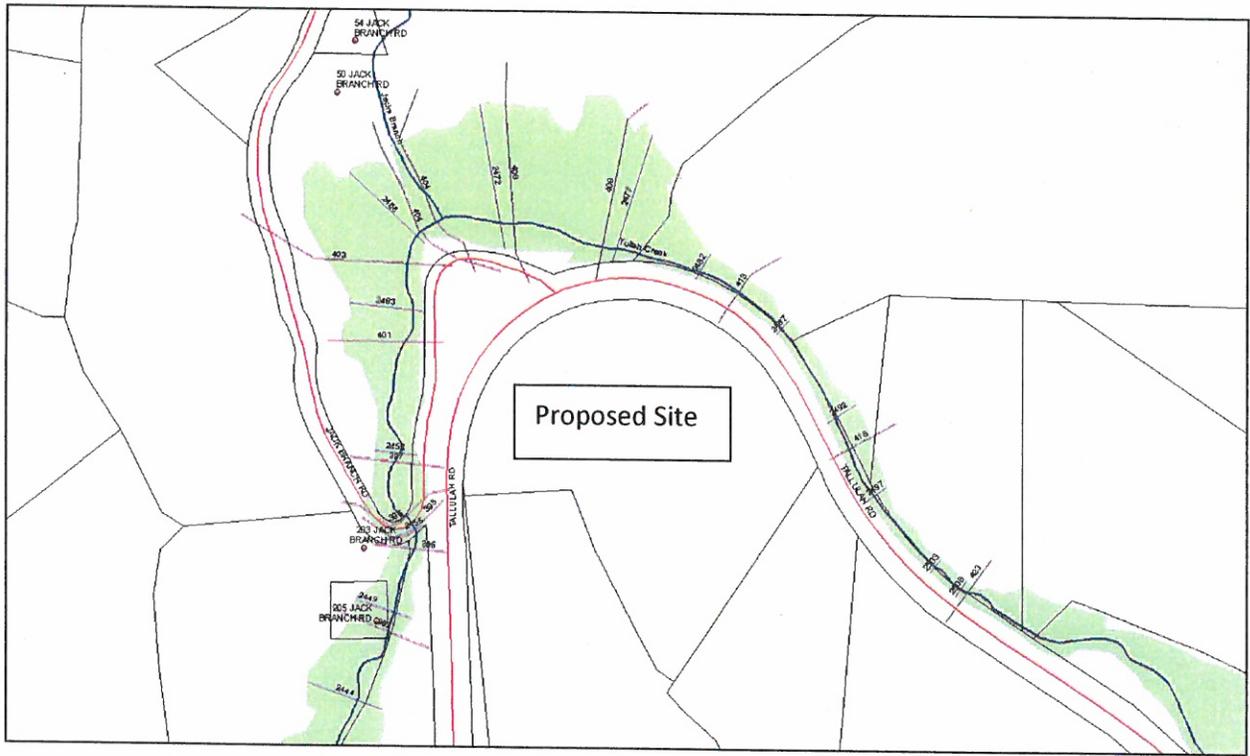
SOLID WASTE TRANSFER STATION  
**GRAHAM COUNTY**  
GRAHAM COUNTY, NORTH CAROLINA

55 BROAD STREET  
ASHEVILLE, NC  
PH. (828) 252-0375  
FAX (828) 252-2518



**McGill**  
ASSOCIATES  
ENGINEERING • PLANNING • FINANCE

01.304/01.304-COE.dwg



100 yr. Flood Zone



GRAHAM COUNTY NC 08/02/2001 \$270.00

This instrument prepared by: Bobby J. Key Attorney at Law JONES, KEY, MELVIN & PATTON, P.A. Franklin, North Carolina 28734 Rev. \$270.00



Real Estate Excise Tax NORTH CAROLINA, GRAHAM COUNTY

THE FOREGOING CERTIFICATE OF James C. Millsaps Notary Public/Notaries Public is/are certified to be correct. This instrument was filed for registration on the 2nd day of August, 2001 at 10:00 o'clock A.M. and recorded in this office in book 210

# 55890000 410701

WARRANTY DEED

STATE OF NORTH CAROLINA GRAHAM COUNTY

Caralyn C. Stewart Register of Deeds By: Pamela Adams, Deputy

THIS DEED, Made this, the 1st day of August, 2001, by ALVIN E. MESSER, unmarried and CHARLES M. MESSER, unmarried, parties of the first part, to THE COUNTY OF GRAHAM, A body politic and political subdivision of the State of North Carolina, party of the second part; whether one or more; the neuter gender shall be deemed to include the masculine and feminine and the singular number the plural, and vice versa:

WITNESSETH:

That the said parties of the first part in consideration of Ten Dollars and other valuable considerations, the receipt of which is hereby acknowledged, have bargained and sold, and by these presents do bargain, sell and convey unto said party of the second part, its heirs, successors and assigns, a certain tract or parcel of land in Cheoah Township, Graham County, State of North Carolina, being more particularly described as follows:

BEGINNING on a concrete right of way monument in the Southeast right of way of Highway 129, said beginning corner being located North 86 degrees 47 minutes 00 seconds East 18.78 feet from U.S. Forest Service monument, Corner 18 of Tract 1068, said beginning corner is also the beginning corner of the land described in the Deed from Joseph C. Dougherty to Alvin E. Messer and Charles M. Messer dated 30 July, 1998 and recorded in the Office of Register of Deeds for Graham County, North Carolina in Deed Book 185, at Page 709; runs thence with the South margin of the right of way of Highway 129 the following nine (9) courses and distances, to-wit: North 00 degrees 47 minutes 00 seconds East 67.67 feet to a point, with a curve to the right having a radius of 445.58 feet, a length of 380.90 feet a chord of 369.40 feet with chord bearing North 25 degrees 16 minutes 20 seconds East to a point, North 49 degrees 45 minutes 40 seconds East 14.38 feet to a point, with a curve to the right having a radius of 394.46 feet, a length of 293.92 feet and a chord of 287.16 feet with chord bearing North 71 degrees 06 minutes 26 seconds East to a point, with a curve to the right having a radius of 449.12 feet, a length of 430.57 feet and a chord of 414.27 feet with chord bearing South 60 degrees 04 minutes 53 seconds East to a point, South 32 degrees 37 minutes 00 seconds East 7.66 feet to an iron pipe, South 32 degrees 37 minutes 00 seconds East 53.85 feet to a point, South 29 degrees 34 minutes 00 seconds East 53.22 feet to a point and South 27 degrees 13 minutes 00 seconds East 130.16 feet to an iron pipe set on the Southwest margin of the right of way of Highway 129, said point being located in the West boundary of the property now or formerly owned by the Helen C. Bang Trust (Deed Book 172, Page 667 Graham County Records); thence with the West boundary of said Helen C. Bang Trust parcel, South 33 degrees 30 minutes 00 seconds West 685.56 feet to an iron pipe set on a ridge, said point being located North 30 degrees 51 minutes 00 seconds

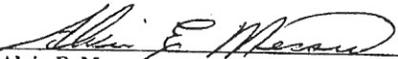
West 112.20 feet from another iron pipe on the ridge; thence running with the top of the ridge and the East boundary of U.S. Forest Service Tract 1068, the following four courses and distances, to-wit: North 55 degrees 23 minutes 00 seconds West 54.60 feet to a point, North 27 degrees 23 minutes 30 seconds West 259.04 feet to an iron pipe, continuing North 27 degrees 23 minutes 30 seconds West 97.67 feet to an iron pipe and North 20 degrees 39 minutes 00 seconds West 166.48 feet to an iron pipe, Corner 17 of U. S. Forest Service Tract 1068; thence South 86 degrees 47 minutes 00 seconds West 257.60 feet to a concrete right of way monument; thence continuing South 86 degrees 47 minutes 00 seconds West 16.00 feet to the point of BEGINNING, containing 11.72 acres more or less and being described herein as surveyed by Tuckasegee Surveying (William R. Howell, Registered Land Surveyor) and as shown on their unrecorded map dated May 2001, entitled "Graham County."

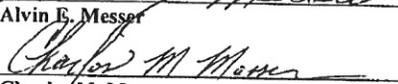
This conveyance is made subject to the easement for Highway 129 and for the easement of old Highway 129 (now abandoned).

**TO HAVE AND TO HOLD** the aforesaid tract or parcel of land and all privileges and appurtenances thereunto belonging, or in anywise thereunto appertaining, unto the said party of the second part, its heirs, successors and assigns, to their only use and behoof, in fee simple forever, subject to those exceptions, reservations, and limitations following the description hereinabove set forth.

And the said parties of the first part covenant with said party of the second part, its heirs, successors and assigns, that they are seized of said premises in fee, and have the right to convey the same in fee simple; that the same are free and clear from all liens and encumbrances, and that they will warrant and defend the said title to the same against the lawful claims of all persons whomsoever, subject to those exceptions, reservations, and limitations following the description hereinabove set forth.

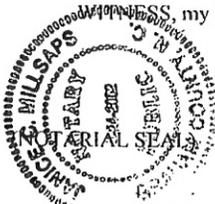
**IN TESTIMONY WHEREOF**, the said parties of the first part have hereunto set their hands and seals, the day and year above written.

 (SEAL)

 (SEAL)  
Charles M. Messer

STATE OF NORTH CAROLINA  
COUNTY OF GRAHAM

I, Janice C. Millsaps, a Notary Public of the aforesaid County and State, hereby certify that **ALVIN E. MESSER, unmarried and CHARLES M. MESSER, unmarried**, appeared before me this day, and acknowledged the due execution of the annexed deed of conveyance.



WITNESSE, my hand and Notarial Seal, or stamp, this 30 day of July, 2001.

Janice C. Millsaps  
Notary Public  
My Commission Expires: 4-24-2002

STATE OF NORTH CAROLINA  
COUNTY OF GRAHAM

Each of the foregoing certificate, or certificates, namely of \_\_\_\_\_

Janice C. Millsaps

a Notary or Notaries Public of the County and state designated is certified to be correct and filed for registration on the 2nd day of August, 2001 in Book 210, at page 30 - 32 at 10:00 o'clock A. M.

REGISTER OF DEEDS Carolyn C. Stewart

By: Pamela Adams  
Deputy