



Environmental
Quality

State of North Carolina
Department of Environmental Quality
Division of Waste Management &
Division of Environmental Assistance and Customer Service

Solid Waste and Materials Management Annual Report **July 1, 2015 -- June 30, 2016**

Please submit this form to Lgteam@ncdenr.gov by **September 1, 2016**.

On the following pages you will find the Local Government Solid Waste and Materials Management Annual Report Form for Fiscal Year 2015-2016. Each North Carolina County and Municipality is required to complete this report annually. Completion and submission of this report will fulfill the annual reporting mandate to the state as required by G.S. 130A-309.09A. Failure to complete and submit this report could result in the local government being excluded from distributions of Solid Waste Disposal Tax Proceeds and other Department of Environmental Quality grants.

Instructions:

Each local government should determine which staff member is responsible for preparing and submitting the annual report and ensure that the report is completed and submitted before the reporting deadline on September 1, 2016.

Options for obtaining a blank copy of this form:

- 1 - download a copy of the form from this web site: <http://deq.nc.gov/about/divisions/waste-management/solid-waste-section/annual-reporting-local-government-solid-waste-facility-reporting>
- 2 - call the Division of Environmental Assistance and Customer Service at 877-623-6748
- 3 - request a copy of the form by sending an email to Lgteam@ncdenr.gov.

This form must be completed electronically using Adobe Reader. Adobe Reader can be downloaded for free at the following web site: <https://get.adobe.com/reader/> - it is suggested that you complete the form using the latest version of Adobe Reader. Please **DO NOT** complete this form using Adobe Acrobat Pro.

Complete the form by entering responses in the appropriate fields using Adobe Reader. Please save a copy of the completed form to your computer for your records by using the "Save As" option and choosing an appropriate file name. When naming the file, please include your community's name as a part of the file name.

After completing the report form, please submit a copy electronically to the Division of Environmental Assistance and Customer Service by attaching it to an email and sending the email to Lgteam@ncdenr.gov

If you need assistance completing or submitting this form, please feel free to contact one of the following Division of Environmental Assistance and Customer Service staff members:

Joseph Fitzpatrick, phone: 919-707-8121, email: joseph.fitzpatrick@ncdenr.gov
Rob Taylor, phone: 919-707-8139, email: rob.taylor@ncdenr.gov

Form Year 2016



Environmental
Quality

Local Government

Required - Enter Your Local Government Name:

WAKE COUNTY

State of North Carolina

Department of Environmental Quality

Division of Waste Management &

Division of Environmental Assistance and Customer Service

Solid Waste and Materials Management Annual Report

July 1, 2015 -- June 30, 2016

**COMPLETION AND SUBMISSION OF THIS REPORT WILL FULFILL THE ANNUAL REPORTING
MANDATE TO THE STATE AS REQUIRED BY G.S. 130A-309.09A.**

Please submit this form to Lgteam@ncdenr.gov by **September 1, 2016**.

If you have questions about completing this form, please call 919-707-8121 or 919-707-8139. If you have questions about the reporting requirement, please call 919-707-8200 or contact your Regional Environmental Senior Specialist.

Person Completing This Report: Lowell Shaw Title: Solid Waste Facilities Manager

Mailing Address: P.O. Box 550 City: Raleigh Zip: 27601

Phone: (919) 856-6432 Fax: (919) 743-4738 Date: August 29, 2016

Email: lshaw@wakegov.com

General Instructions

Please remember that the time period for the report is JULY 1, 2015 through JUNE 30, 2016. Please check "No" if you have nothing to report for a specific question.

1. Did your local government have a Recycling Coordinator or similar position for FY 15-16? ☒ Yes ☐ No

Name Recycling Coordinator (if different from person completing this report.)

Name: _____ Title: _____

Address: _____ City: _____ Zip: _____

Telephone: _____ Fax: _____ Email: _____

2. Did your local government have a Solid Waste Director or similar position for FY 15-16? ☒ Yes ☐ No

If Yes, Name: John Roberson Title: Solid Waste Director

Address: P.O. Box 550 City: Raleigh Zip: 27601

Telephone: (919) 856-6365 Fax: (919) 743-4738 Email: john.roberson@wakegov.com

3. Did your local government have **dedicated or part-time** Solid Waste Enforcement Staff for FY 15-16? ☒ Yes ☐ No

If Yes, Name: Grant Jones Title: Recycling and Compliance Coordinator

Address: P.O. Box 550 City: Raleigh Zip: 27601

Telephone: (919) 856-6436 Fax: (919) 743-4738 Email: grant.jones@wakegov.com

4. Did your local government have solid waste ordinances in place addressing any of the following during FY 15-16? (if yes, please check all that apply)

☐ Disposal Bans ☒ Illegal Dumping ☒ Littering ☐ Other, Please Describe: _____

5. Did your local government manage, provide or contract for any solid waste services in FY 15-16 (e.g., collection, disposal, recycling, mulching, composting)? ☒ Yes ☐ No

If you answer "No" to question 5, the report is complete, please email to Lgteam@ncdenr.gov.

Part I. Waste Reduction and Recycling Programs Serving Government Facilities

The following questions pertain to waste reduction and recycling activities / programs that serve local government facilities. An example of source reduction at government facilities is duplex or two-sided copying.

6. Did your local government have an in-house / government building recycling program in place for FY 15-16? ☒ Yes ☐ No
7. Did your local government have any program or policy encouraging or requiring local agencies to purchase products with recycled content? ☒ Yes ☐ No
8. Did your local government have a program in place to collect and recycle spent fluorescent lights generated from public buildings? ☒ Yes ☐ No

Part II. Waste Reduction and Recycling Programs Serving the Public

SOURCE REDUCTION / REUSE

9. Did your local government have a backyard composting program? ☒ Yes ☐ No
10. If yes, please check all backyard composting activities that apply:
☒ Education ☐ Demonstration site(s) ☐ Bin distribution/sales Number of Bins distributed? _____
11. Did your local government operate a program to promote source reduction efforts such as junk mail reduction, phone book opt-out through www.yellowpagesoptout.com, or by promoting the use of non-toxic alternatives? ☒ Yes ☐ No
12. Did your local government offer a waste exchange or reuse program? ☐ Yes ☒ No
13. If yes, please indicate which waste exchange and/or reuse programs were available to the public:
☐ Swap shop/shed Number of sheds in use? _____ ☐ Paint exchange Number of gallons recovered? _____
☐ Other (e.g. pallet exchange, etc.) _____

PUBLIC RECYCLING SERVICES

14. Which of the following responses best describes your recyclables recovery activities for the period July 1, 2015 through June 30, 2016?
- ☒ My local government **DID operate or contract** for a recyclables recovery program. (please continue to question 15)
- ☐ My local government **DID NOT operate or contract** for recyclables recovery **BUT DID participate** in a recyclables recovery program sponsored by another local government. (Please identify the public agency/organization responsible for its operation; then go to Part IV on page 7.)
With what local government did you participate? _____
- ☐ My local government **DID NOT operate, contract or participate** in a recycling program. (Go to Part IV on page 7.)

If you **DID operate or contract** for a recyclables recovery program, please indicate the type of program in operation and provide specifics about your program(s).

CURBSIDE RECYCLING PROGRAM

15. Did your government operate a Curbside Recycling Program? ☐ Yes ☒ No, skip to question # 26
16. Who collected the recyclable materials for your local government's curbside recycling program?
- ☐ Local government employees
- ☐ Private contractor (please specify) _____
- ☐ Franchised hauler (please specify) _____
- ☐ Other (please specify) _____

17. Please answer the following questions about your community.
- Total number of households? _____
 - Number of households served by curbside recycling? _____
 - Please estimate the **number of households** that regularly participate in the program? _____
18. If your curbside recycling program is operated through a public franchise to a private company then please answer the following:
 Is public participation in the franchise: ☐ Voluntary or ☐ Mandatory
 Does your franchise consist of: ☐ One service district or ☐ Multiple service districts
19. What sector(s) of your community was served by the curbside recycling program?
☐ Residential ☐ Commercial ☐ Industrial
20. If you checked commercial or industrial in question 19, please indicate the number of accounts served: _____
21. How frequently were the curbside recyclables collected?
☐ Once a week ☐ Every other week / biweekly
☐ Other _____
22. Please describe the collection containers used:
☐ Bins ☐ Blue bags
☐ Multi-bin system ☐ Roll-out carts
23. Please describe the method / style of recyclable materials handling:
☐ curb-sort (collector separates material as collected) ☐ single stream / commingled
☐ dual / two stream ☐ don't know / other
24. If you checked "Roll-out carts" in question 22, please indicate the approximate size (volume) of the carts used:
☐ less than 50 gallon cart ☐ 65 gallon cart
☐ 95 gallon cart ☐ multiple sizes of cart available
25. If you use roll-out carts for curbside recycling, please indicate the calendar year you implemented service with carts: _____

DROP-OFF RECYCLING PROGRAM

26. Did your government operate a Drop-off Recycling Program? ☒ Yes ☐ No, skip to question # 33
27. Who collected the recyclable materials for your local government's drop-off recycling program?
☐ Local government employees
☒ Private contractor Waste Industries
☐ Other (please specify) _____
28. Please describe the method / style of recyclable materials handling for your drop-off recycling program:
☒ source-separated (citizens separate materials by type) ☒ single stream / commingled
☐ dual / two stream (paper separated from cans/bottles) ☐ don't know / other
29. Please estimate the number of households served by your drop-off recycling program. 407,703
30. What sector(s) of your community are served by the drop-off recycling program? ☒ Residential ☒ Commercial ☒ Industrial
31. How many drop-off locations did you provide for the citizens in your jurisdiction? Number of Sites: 15
32. How many of these locations were staffed with attendants? ☒ All ☐ None ☐ Some please list # of staffed sites: _____

ELECTRONICS RECYCLING PROGRAM

Please answer the following questions about local government sponsored efforts to collect electronics from the public. The tonnage of any materials collected by the electronics recycling programs should be listed in the "Other" column in the Recycling Tonnages Chart on pg 5.

33. Did your community operate an electronics recycling program in FY 15-16? ☒ Yes ☐ No, skip to question # 39
- If you did operate an electronics recycling program, please indicate style of program:
☐ Permanent - Curbside Collection ☒ Permanent - Drop-off ☐ Scheduled Collection Day or Event ☐ Part of HHW Program
- If you offer curbside collection of electronics is it: ☐ by appointment or ☐ unscheduled
- If you operate a drop-off electronics program, how many collection sites do you provide? Number of Sites: 5

34. Did your electronics recycling program collect or accept televisions from (check all that apply): ☒ Residences ☒ Businesses
35. Did your electronics recycling program collect or accept computer equipment from (check all that apply): ☒ Residences ☒ Businesses
36. DEQ distributes Electronics Management Funds each February to eligible governments (G.S. 130A-309.137). If your government was eligible to receive proceeds from the State Electronics Management Fund in February of 2016, please provide the following information:
- Electronics Management Fund balance as of July 1, 2015: \$0
- Electronics Management Funds received from DENR during FY 15-16: \$95,277
- Electronics Management Funds spent during FY 15-16: \$95,277
- Electronics Management Fund balance as of June 30, 2016: \$0
37. Please explain how Electronics Management Funds were spent during FY 2015-16 (please list items purchased if applicable):
- We used \$44,365 to partially offset contracted labor and hauling for site attendants, collections, packaging and processing. The remaining \$50,912 was distributed to the municipalities. The FY 16 cost of recycling electronics was \$1,093,283.
38. If you did operate an electronics recycling program, please provide the following information about your vendor / contractor:
- Name of electronics recycling vendor(s) during FY 15-16: ERI, GEEP
- Does the electronics recycling vendor(s) listed above hold either the e-Steward or R2 certifications? ☒ Yes ☐ No

OTHER PUBLIC RECYCLING PROGRAMS

Please answer the following questions about local government sponsored recycling efforts. List only programs operated or contracted for by the local government. The tonnage of any materials collected by the following programs should be listed in the "Other" column in the Recycling Tonnages Chart on pg 5.

39. Did your local government operate a multifamily recycling collection program that provides on-property recycling service for residents of multifamily properties in a manner other than through your curbside or dropoff recycling programs? ☐ Yes ☒ No
40. Did your local government operate a recycling program to serve commercial or institutional members of your community in a manner other than through your curbside or dropoff recycling programs? ☐ Yes ☒ No
41. Does your local government provide recycling services to Alcoholic Beverage Commission permit holders? ☒ Yes ☐ No
- ☐ On-site collection services provided If on-site collection provided, please estimate # of ABC accounts served: _____
- ☒ Public drop-off recycling sites available for ABC On Premises Permit holders to use
42. Does your local government operate a program to recycle Construction and Demolition materials? ☐ Yes ☒ No
- If yes, please check all materials that were recycled and report tonnages in tonnage table on page 5):
- ☐ Clean Wood ☐ Brick, concrete, etc. ☐ Sheetrock ☐ Vinyl siding ☐ Shingles ☐ Metals ☐ Other
43. Does your local government have an ordinance regulating the construction and demolition waste stream with the intention of encouraging or requiring waste reduction or recycling of these materials? ☐ Yes ☒ No
44. Please identify all Away From Home / Recycling On The Go programs or services operated by your government during FY 15-16. (check all that apply and if possible indicate tonnages on page 5 in "Other" column)
- ☒ Public Parks Recycling Program ☐ Athletic Field /Venue Recycling Program
- ☐ Pedestrian Recycling Program ☒ Recycling Service for Special Events / Festivals
45. Please identify all "Other" programs or services operated by your government during FY 15-16. (check all that apply and if possible indicate tonnages on page 5 in "Other" column)
- ☒ Public School Recycling Program
- ☒ Scheduled Collection Drives (e.g. confidential document shredding event held quarterly, once a year, etc.)
- ☐ Lend-a-Bin Program where local government provides recycling containers to community organizations for use at events
- ☒ Organics / Food Waste Recycling other than yard waste program
- ☒ Oyster Shell Recycling Program
- ☐ Other Programs (please specify) _____

Programs to manage Special Wastes are addressed in Part III on page 6, please do not include Special Waste programs above.

RECYCLING TONNAGES FROM PUBLIC PROGRAMS

46. a. Enter data in the table below for ALL recycling programs operated or contracted for by your local government. Provide TONNAGES (or estimates) for each material collected for the period JULY 1, 2015 through JUNE 30, 2016. DO NOT include materials that were not collected or managed by your local government either directly or under contract to a private service provider.
- b. Do NOT report YARD WASTE, TIRES, HHW, USED OIL, OIL FILTERS, ANTI-FREEZE, BATTERIES or other SPECIAL WASTE tonnages on this page - these items should be reported in other sections of report form. See page 6 for SPECIAL WASTES.
- c. Please report materials collected in tons only. Please only extend numbers to two decimal places (x.xx).
- d. If you collected single stream or other commingled materials, record Tons in the "Commingled tons" row and then check the box for each individual material type that was commingled.

PROGRAM	Curbside		Drop-off		All "Other" Programs		Total Tons (totals are calculated by form)
	<input type="checkbox"/> if Yes	Tons	<input type="checkbox"/> if Yes	Tons	<input type="checkbox"/> if Yes	Tons	
GLASS:							
Clear	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Brown	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Green	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Mixed	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
PLASTIC:							
PET #1	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
HDPE #2	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
All Plastic Bottles	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Other Plastic Containers	<input type="checkbox"/>		<input checked="" type="checkbox"/>	12.1	<input type="checkbox"/>		12.1
Bulky Rigid Plastics	<input type="checkbox"/>		<input checked="" type="checkbox"/>	3.28	<input type="checkbox"/>		3.28
METAL:							
Aluminum Cans	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Steel Cans	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
White Goods	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	786.98	786.98
Other Metal	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	4,706.02	4,706.02
PAPER:							
Newsprint (ONP)	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	20.98	20.98
Cardboard (OCC)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	2,456.01	<input type="checkbox"/>		2,456.01
Magazines (OMG)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Office Paper	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	132.62	132.62
Mixed / Other Paper	<input type="checkbox"/>		<input checked="" type="checkbox"/>	5.51	<input checked="" type="checkbox"/>	947.84	953.35
Cartons / Aseptic Containers	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
WOOD:							
Pallets	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	2.92	2.92
Other Wood - DO NOT report yard waste tons here	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
OTHER MATERIALS:							
Textiles (clothes etc...)	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	77.78	77.78
Televisions	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	1,885.35	1,885.35
Other Electronics	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	787.96	787.96
C&D Recovery	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Toys	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	0.51	0.51
Oyster Shells	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	13.04	13.04
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
Commingled tons-check all items collected above	<input type="checkbox"/>		<input checked="" type="checkbox"/>	3,696.51	<input checked="" type="checkbox"/>	9.29	3,705.8
TOTAL TONS:				6,173.41		9,371.29	15,544.7

47. **RECYCLING TONNAGE AS A RESULT OF POLICY OR ORDINANCE:** complete this section for materials that were recycled as a result of local government ordinances or policies but that were NOT collected or managed directly by your local government recycling program. E.g. a corrugated cardboard disposal ban supported by a reporting mechanism for collecting data on private recycling tonnages.

Material Type	Tons Diverted	Describe the mechanism that caused these materials to be recovered and data collection method

Part III. Special Waste Collections

This section concerns local government programs for managing materials that require special handling or that are banned from landfilling. Please answer the questions and provide data as indicated below considering services provided to the public for recycling. Please do not include materials that were accepted and then disposed of in a landfill. Do not include materials generated exclusively by government operations (e.g. motor-fleet services). If special wastes were only accepted as a part of an Household Hazardous Waste (HHW) Program or HHW event and were not collected by separate recycling efforts then do not record materials in question # 48 but instead report with HHW materials in question # 49.

Special Waste Collected Separately From HHW Collection Program or Event

48. Special Waste Programs for Collecting Materials from Citizens by Material Type	Did program collect this material from the public?		# of sites	Data on quantities collected / managed. Please report in indicated units.				Can businesses participate?
Used Motor Oil	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3	42,195 gallons				<input checked="" type="checkbox"/> Yes
Used Oil Filters	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3	25	Barrels, or		lbs	<input checked="" type="checkbox"/> Yes
Used Antifreeze	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3	5,974 gallons				<input checked="" type="checkbox"/> Yes
Batteries, Lead Acid	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3	3,660	# batteries, or		lbs	<input type="checkbox"/> Yes
Batteries, Dry Cell	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2	4,610 lbs				<input type="checkbox"/> Yes
Fluorescent Bulbs/Lights Containing Mercury	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			lbs, or		# bulbs	<input type="checkbox"/> Yes
Propane Tanks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		34,230	lbs, or		# tanks	<input type="checkbox"/> Yes
Used Cooking Oil / Waste Vegetable Oil	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			lbs, or	6,830	gallons	<input checked="" type="checkbox"/> Yes
Other Special Wastes - please provide waste type here: _____	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No						lbs <input type="checkbox"/> Yes
Pesticide Containers (NCDA Program, not pesticides themselves)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			lbs, or		# containers	n/a
NCDA Pesticide Disposal Assistance Program (for management of pesticides, not containers)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No						lbs n/a
Latex Paint (do not include paint collected at HHW event or by a paint exchange program)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			gals, or		lbs	<input type="checkbox"/> Yes

Household Hazardous Waste (HHW) and Conditionally Exempt Small Quantity Generator (CESQG) Program or Event

49. Did your local government operate a household hazardous waste collection program or event in FY 15-16? ☒ Yes ☐ No

If Yes, please respond to the following questions:

a. Was HHW collected at a permitted Temporary Event or at a Permanent HHW Collection Facility? ☒ Permanent ☐ Temp. Event

b. How many days was your HHW Program open to accept materials during this Fiscal Year? 308.5

c. Did you partner or co-sponsor your HHW program with another local government? ☐ Yes ☒ No

Please list partner(s) _____

d. How many citizens / households participated in your HHW collection program this Fiscal Year? 42,230

e. Did your program accept materials from small businesses (Conditionally Exempt Small Quantity Generators)? ☐ Yes ☒ No

If yes, please estimate the amount of business material managed _____ pounds

f. Materials collected by HHW Program: if totals for individual materials are known please indicate below. If individual material totals are not known, please simply provide total quantity of materials collected by HHW program in Total Quantity row below.

Used Motor Oil (Gal) _____ Used Oil Filters _____ # of Barrels, or _____ lbs.

Used Antifreeze (gal) _____ Lead Acid Batteries (lbs) _____ Other Batteries (lbs) _____

Fluorescent Bulbs / Lights Containing Mercury (lbs) 32,684

Provide Total Quantity of materials collected by HHW Program. If individual materials reported in 49f, please net materials reported separately out of total amount collected by HHW Program 1,683,806 pounds

g. Contractor(s) involved Ecoflo, Inc.

h. Estimated cost of HHW / CESQG program or event(s) \$ 756,105.65

Pages 3 through 6 should have only been completed by governments indicating in question # 14 that they DO provide recycling services. All governments answering "Yes" to question # 5 on page 1 should complete the rest of the report with the exception of PART VIII which is only to be completed by Counties.

Part IV. Yard Waste, Mulching and Composting Management

This section concerns management of vegetative materials. Yard waste may not be disposed in sanitary landfills, incinerators, or in unpermitted sites and it is illegal to burn. Composting and mulching are popular management options. Please answer the questions below about your management of vegetative materials. Do not include information on food waste or non-vegetative materials in this section.

50. Does your local government operate a yard waste program? ☐ Yes ☒ No If yes please indicate how yard waste is managed by checking all that apply: ☐ Collected curbside ☐ Collected at convenience center ☐ Received at yard waste, compost, or LCID facil.
51. Did a storm event significantly impact the amount of yard waste your government managed during FY 15-16? ☐ Yes ☒ No
52. What quantities of materials were managed by your yard waste program? **Provide information in TONS OR CUBIC YARDS of organic material (yard waste, brush, limbs, leaves, etc.) managed.** For conversion purposes, use 400 lbs./cubic yd.

Destination	Check if used	Tons	Cubic Yards	Please Provide Name and Location of Facility Receiving Vegetative Materials
End user (to farmer or home-owner)	<input type="checkbox"/>			
Your local government's mulch or compost facility	<input type="checkbox"/>			
Other public mulch or compost facility	<input type="checkbox"/>			
Private mulch or compost facility	<input type="checkbox"/>			
Land clearing and inert debris landfill (LCID)	<input type="checkbox"/>			
Energy / Fuel Use (e.g. boiler fuel market)	<input type="checkbox"/>			
Total				

YARD WASTE MANAGEMENT FORMULA: If yard waste quantities are not tracked, you may use this formula below to help you estimate yard waste volume. Calculate for each truck used in your yard waste management program, and then enter the grand total volume managed by program in the appropriate boxes above. *Ex. 10 yd³ truck x 3 days/wk x 16 wks = 480 yd³*

_____ X _____ X _____ = _____ yd³
 Size of Truck (in yards) Avg. no. of times truck fills each week # of weeks truck is used during year TOTAL

Part V. Solid Waste Collection & Disposal

Please answer the following questions regarding your local government's provision of solid waste collection and disposal services.

53. Please complete the following table regarding your solid waste collection (curbside or drop-off programs) and disposal program.

Sector	Who Collects Solid Waste? Insert Letter - see codes at right				How is Solid Waste Collected? Insert No. - see codes at right				Who Collects Solid Waste?	How is Solid Waste Collected?
	Primary	b	Secondary		Primary	3	Secondary		a. Local government employees	1. Once a week at household
Residential									b. By Contract	2. Twice a week at household
Commercial	Primary	d	Secondary		Primary		Secondary		c. Franchise haulers	3. Convenience center/greenbox
Industrial	Primary	d	Secondary		Primary		Secondary		d. Local government not involved in provision of service	4. As needed or by request
										5. Daily
										6. Other

54. If you provide residential waste collection at single-family households in your jurisdiction, please answer the following questions:

What type of collection method is used? ☐ Fully Automated ☐ Semi-Automated ☐ Manual ☐ Don't know

What is the standard collection frequency? ☐ Weekly ☐ Two times per week ☐ Other

What is the typical service point for single family household waste? ☐ Curbside ☐ Back yard / Back door

What type of collection container is used? ☐ Government-provided carts ☐ Resident-provided container ☐ Bags

Do you offer bulky waste collection services? ☐ Yes ☐ No

55. For municipalities - did your government collect white goods at the curb? ☐ Yes ☐ No

If so, were white goods delivered to the county for marketing? ☐ Yes ☐ No

Part VI. Solid Waste and Recycling Educational Activities

56. Did **your local government** have an education program to inform citizens specifically about solid waste management and / or recycling issues / activities? ☒ Yes ☐ No (If No, skip to Part VII, page 8)

57. Please estimate your annual budget for solid waste related education and outreach activities: \$344,119

58. Does your community produce recycling education and outreach materials in languages besides English? ☐ Yes ☒ No

If YES, please list other languages used: _____

59. Please provide your recycling website address and public information phone number if applicable.

Website: www.wakegov.com/recycling

Hotline: (919) 856-7400

Part VII. Resources for Solid Waste Management and Full Cost Accounting

Sufficient resources available to solid waste management programs are essential for continued success of these programs. The following questions deal with resources allocated to solid waste management programs.

60. Did your local government operate an Enterprise Fund for solid waste services in FY 15-16? ☒ Yes ☐ No
61. With regards to funding sources, check all that apply to your local government:
- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Tipping fees | <input type="checkbox"/> Volume/weight-based fees (e.g. PAYT) | <input checked="" type="checkbox"/> Tire tax |
| <input type="checkbox"/> Property taxes / general fund | <input checked="" type="checkbox"/> Sale of recyclables | <input checked="" type="checkbox"/> White Goods tax |
| <input checked="" type="checkbox"/> Per household charges | <input type="checkbox"/> Grants | <input checked="" type="checkbox"/> Disposal Tax |
62. NC Solid Waste Disposal Tax proceeds are distributed to eligible local governments on a quarterly basis by the Department of Revenue. According to GS 105-187.63 these funds must be used by a city or county solely for solid waste management programs and services.
- How are disposal tax distributions being used? To partially fund waste disposal costs at the Convenience Centers.
63. If applicable, please provide your FY 15-16 household fees. (e.g., a. \$45.00 per year per household for solid waste)
- a. \$ _____ per _____ per _____ for solid waste
- b. \$ _____ per _____ per _____ for recycling
- c. \$ _____ per _____ per _____ for yard waste
- d. \$ _____ per _____ per _____ for bulky waste
- e. \$ 20 per Year per Household availability fee
- f. \$ 20 per Year per Household total charge
64. Did your local government have a Pay-As-You-Throw program for residential garbage? (Residents are charged by weight or volume for the amount of trash disposed.) ☐ Yes ☒ No

According to GS 130A-309.08, local governments are required to conduct full cost accounting annually and to develop a system to inform users of such costs.

65. If your local government contracts for solid waste or recycling services, please report the annual contract amount.
- \$ _____ For solid waste services per year
- \$ _____ For recycling per year
- OR
- \$ 9,732,639 Combined Contract (solid waste, and recycling)
66. Collection Programs: Please complete the following table to the best of your ability to display the full costs of your local government's programs for collecting waste, recyclables and yard waste including services at convenience centers. **If full cost analysis is not available, please report program budget in Total Cost column.**

	# of Households served	Tons Collected	Collection Cost	Disposal Cost (tipping fees paid)	Total Cost including overhead	Calculated Cost Per Ton Managed
Municipal Solid Waste*	<u>407,703</u>	<u>59,874</u>	<u>2,194,664</u>	<u>2,143,013</u>	<u>4,337,677</u>	<u>72</u>
Recycling Program**	<u>407,703</u>	<u>15,544.7</u>	<u>5,394,963</u>	<u>0</u>	<u>5,394,963</u>	<u>347</u>
Yard Waste Program						
Calculated Totals:		<u>75,418.7</u>	<u>7,589,627</u>	<u>2,143,013</u>	<u>9,732,640</u>	<u>129</u>

*for materials collected and sent for eventual disposal in a Municipal Solid Waste or Construction and Demolition Landfill, or through incineration

**for materials collected by public recycling programs including those services offered to commercial and industrial generators. Do not include special waste services

67. If your government operates a landfill, transfer station, yard waste /compost facility or recycling facility, please provide total budget for facility operations. If budgets are combined, please attempt to allocate costs proportionately.
- Landfill Budget: \$ 11,941,369
- Transfer Station Budget: \$ 4,290,631
- Yard Waste / Compost Facility Budget: \$ 0
- Recycling Facility Budget: \$5,394,963
68. What is your government's total combined annual budget for all solid waste and recycling related services? \$9,732,639

Part VIII. County Mandated Programs

*The following questions pertain to programs mandated by N.C. statute to be provided by each county. **Only county governments need to complete this section (questions 69 through 97).** Municipalities should skip to Part IX on page 11. Counties - failure to complete Part VIII may result in non-eligibility for grant requests.*

WHITE GOODS

69. Give name, address, phone number, and e-mail of person responsible for white goods program.

Name: Lowell Shaw

Title: Solid Waste Facilities Manager

Address: P.O. Box 550

City: Raleigh

Zip: 27601

Telephone: (919) 856-6432

Fax: (919) 743-4738

Email: lshaw@wakegov.com

70. Please provide the physical address of the primary county white goods collection site.

Street 1: 9029 Deponie Drive, Raleigh, NC 28716 (North Wake Location)

Street 2: 6130 Old Smithfield Road, Apex, NC 27502 (South Wake Location)

City: _____

State: North Carolina

Zip: _____

71. Please provide the name of the business or person that removes the refrigerant gases (CFCs) from white goods.

Name: William Farrell Kidd - CLM Services, LLC and Waste Industries, LLC (3741 Conquest Drive, Garner, NC 27529)

Street: 724 Charlie S. Road

City: Robbins

State: North Carolina

Zip: 27325

Phone: (919) 464-5385

Fax: (919) 464-5385

Email: clm@rtmc.net

72. Give amounts / types of CFCs removed. Attach records of CFC removal, and copy of certification of person(s) performing extraction.

Type of CFC Removed	Amount
Convenience Center #1 Old Stage Road	R22 (118 units), R12 (184 units), R134 (638 units)
Convenience Center #11 Wendell Boulevard	R22 (28 units), R12 (97 units), R134 (396 units)
Multi-Material Recycling Facility (North Wake)	R22 (95 pounds), R12 (85 pounds), R134 (75 pounds)
Multi-Material Recycling Facility (South Wake)	R22 (109 pounds), R12 (160 pounds), R134 (133 pounds)

73. CFCs may be recycled or sent for destruction. Give name of firm, disposal method and amount earned / spent for CFC disposal.

Firm	Method of Disposal	Amount Earned	Amount Spent
ACR Supply Company, LLC	Recycling	0	175.62
Diversified Pure Chem, LLC	Recycling	0	0
R.E. Michel Company, Inc.	Recovery Unit	0	0

74. Tonnage of White Goods Collected (include scrap metal): 786.98

75. List the amount of revenue for the white goods program by source:

Revenue collected from sale of scrap: \$ 76,703.28

Revenue collected from White Goods Tax Distributions: \$ 335,179.56

Revenue from other source (e.g. grants): \$ 0

Total Revenue: \$ 411,882.84

76. According to the White Goods Law, White Good Tax Distributions must be spent on white goods activities. Give amounts and types of expenditures White Good Tax Distributions were used for (do not include funds received from grants).

Operational Expenses: \$ 138,078.9

Capital Improvements: \$ 195,035.92

Clean-up of Illegal White Goods Dumps: \$ 0

Total Expenditures: \$ 333,114.82

SCRAP TIRES

77. Give name, address, phone number, and e-mail of person responsible for scrap tires program.

Name: Lowell Shaw Title: Solid Waste Facilities Manager

Address: P.O. Box 550 City: Raleigh Zip: 27601

Telephone: (919) 856-6432 Fax: (919) 743-4738 Email: lshaw@wakegov.com

78. Please provide the physical address of the primary county scrap tires collection site.

Street 1: 9029 Deponie Drive, Raleigh, NC 27614 (North Wake Location)

Street 2: 6130 Old Smithfield Road, Apex, NC 27502 (South Wake Location)

City: _____ State: North Carolina Zip: _____

79. Tonnage/Number of scrap tires disposed July 1, 2015-June 30, 2016 (excluding tires from cleanup of nuisance sites)

18,452.68 Tons **or** _____ Number of tires

80. Tonnage/Number of scrap tires disposed from cleanup of state or county designated nuisance sites

_____ Tons **or** _____ Number of tires

81. Indicate the types of tires collected by the county:

Passenger 88 % Heavy Truck 10 % Large Off-Road 2 %

82. List the amount of revenue for the scrap tire program by source:

Revenue from Scrap Tire Tax Distributions: \$ 1,306,744.87

Revenue from Tire Fees: \$ 44,407.8

Revenue from Scrap Tire Clean-up Reimbursements: \$ 0

Revenue from Scrap Tire Cost-Overrun Grants: \$ 0

Total Revenue: \$ 1,351,152.67

83. County's total scrap tire program contract expenditure (contract disposal/hauling costs), excluding costs of nuisance tire cleanups, for FY 15-16. \$ 1,322,057.49

84. County's additional scrap tire program expenditure (i.e. labor, convenience center cost), if any.

Labor \$ 16,047.22

Site Cost \$ 0

Other \$ 1,080.00 describe Other: Scrap Tire Roll-Off Container Rental

85. County's contract cost for scrap tire disposal. \$ 72.83 / Ton; \$ _____ / Tire

86. Hauling cost or fuel surcharge, if not included in contract cost above. \$ _____ / Ton; \$ _____ / Tire

87. Total tipping fees collected for tires not eligible for free disposal. \$ _____

88. Total number of tires collected not eligible for free disposal: _____

89. If scrap tires were not hauled off site by contracted service provider, were they cut and disposed in a local landfill? ☐ Yes ☒ No

90. Name of tire disposal/recycling firm(s): Central Carolina Tire

TEMPORARY DISASTER DEBRIS STAGING SITES

91. Does your local government have a plan in place for management of disaster debris? ☒ Yes ☐ No

If yes, indicate if the plan is a stand-alone plan or in conjunction with local government agencies: ☒ Stand-alone ☐ In conjunction

92. If you indicated having a plan, has the plan been reviewed by N.C. Emergency Management or FEMA to ensure it meets the basic requirements for public assistance reimbursement in a declared disaster event? ☒ Yes ☐ No

93. Please list the name, contact numbers(s), and e-mail address of the person(s) in charge of the disaster debris management program for your local government:

Name: John Roberson Name: Casey Fulghum Name: _____

Phone: (919) 856-6365 Phone: (919) 856-6431 Phone: _____

E-mail: john.roberson@wakegov.com E-mail: casey.fulghum@wakegov.com E-mail: _____

94. Please list the temporary disaster debris staging sites in your county or municipality which have been reviewed for conflicts with the Natural Heritage Program (NHP) and the State Historic Preservation Office (SHPO) through coordination with the Solid Waste Section. *Please note that the vetting of a site prior to a disaster is advantageous to local governments because a staging site which is found to have impacted federal or state resources after a disaster may cause difficulty for local governments when attempting to obtain FEMA reimbursement. Attach extra sheets, if needed.*

Disaster Site #	Site Name	Disaster Site #	Site Name
DS92-008	Feltonsville		
PENDING APPROVAL	South Wake Landfill - Phase 4A		
DS92-012	Wake Reclamation, LLC		
DS92-013	Carolina Tree (Cooke Property)		

95. Does your plan address the management of household hazardous waste and white goods following a disaster? ☒ Yes ☐ No

96. Does your plan address mass animal mortality? ☐ Yes ☒ No

MANAGEMENT OF ABANDONED MANUFACTURED HOMES

97. Has your county considered whether to implement a program for the management of abandoned manufactured homes? ☐ Yes ☒ No

If yes, has your county developed a written plan for the management of abandoned manufactured homes? ☐ Yes ☒ No

Part IX. Comments

Use this section to elaborate on any info provided in your report as necessary. We would appreciate your comments about this report or other matters regarding solid waste management in North Carolina. Thank you for your time. Attach additional sheets if needed.

Question 49f.

Wake County collected the following items:

42,195 gallons of used motor oil (data from Noble Oil)
 5,974 gallons of used antifreeze (data from Noble Oil)
 25 barrels of used oil filters (data from Noble Oil)
 3,660 lead-acid batteries (data from Interstate Batteries)
 4,610 pounds of dry cell batteries (data from Call2Recycle)
 42,889 pounds of alkaline batteries (data from ERI and GEEP)
 4,087 pounds of lithium batteries (data from ERI and GEEP)
 32,684 pounds of fluorescent light bulbs (data from Ecoflo)

Note:

1,716,490 total HHW pounds collected in FY 2016 (data from Ecoflo)
 - 32,684 pounds of fluorescent light bulbs
 = 1,683,806 pounds reported for 49f.

This form is to be submitted electronically. If you require assistance, please contact one of these NC DEACS staff members:

Joseph Fitzpatrick, email: joseph.fitzpatrick@ncdenr.gov phone 919-707-8121

Rob Taylor, email: rob.taylor@ncdenr.gov phone: 919-707-8139

The Division of Environmental Assistance and Customer Service Local Government Assistance Team is ready to assist you in any way we can. Please visit our Web site at <https://deq.nc.gov/conservation/recycling/local-government-recycling-assistance> or e-mail us at Lgteam@ncdenr.gov

