

CE GROUP

301 GLENWOOD AVENUE, SUITE 220
RALEIGH, NC 27603
Phone: (919) 367-8790
E-Mail: joe@cegroupinc.com

TO: Chatham County Planning Department
80-A East Street
Pittsboro, NC 27312
ATTENTION: Lynn Richardson

Transmittal
DATE: 6/26/13
PROJECT NO: 800-12
Westfall Subdivision Ph 2A
Chatham County, NC

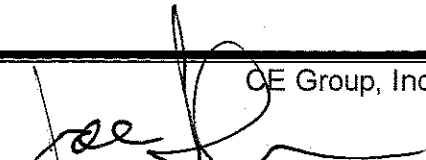
Quantity	Drawing No.	Description
10	Sets	Construction Plans for Westfall Subdivision Phase 2A
1	Copy	Major Subdivision – Construction Plan Application Westfall Phase 2A
1	Copy	Chatham County Erosion Control Approval
1	Copy	Chatham County Stormwater Approval
1	Copy	Chatham County Road Name Approval
1	Copy	Chatham County Public Utility Approval
1	Copy	NCDENR Public Water Supply – Water Extension Permit Approval
1	Copy	NCDENR – DWQ Wastewater Collection Extension System Approval
1	CD-ROM	Digital Plan Set and Permits

REMARKS Lynn, Please find attached the Westfall construction plans for Phase 2A. Please let me know if you require any additional information.

CC:

Signed

CE Group, Inc.



Joe Faulkner, RLA LEED AP



Chatham County Planning Department
80-A East Street
P.O. Box 54, Pittsboro, NC 27312-0054
Phone: 919-542-8204

MAJOR SUBDIVISION - CONSTRUCTION PLAN

Subdivision Name: Westfall Subdivision Phase 2A

Property Owner/Applicant:

Name: Westfall Associates, LLC
Address: 140 Towerview Ct. Cary, NC 27513
Phone: (W) 919-463-9940 ext. 104
(H) 919-417-449
(C)
Fax: 919-463-9983
Email: cdavidso@nvrinc.com

Surveyor / Engineer:

Name: Joe Faulkner, RLA
Company Name: CE Group, Inc.
Address: 301 Glenwood Avenue Suite 220 Raleigh, NC 27603
Phone: (W) 919-367-8790 ext 102
(C) 919-606-7703
Fax: 919-322-0032
Email: joe@cegroupinc.com

Parcel # (AKPAR): 20092 P.I.N. # 9785-56-3026 Zoning District: R-1 (w/CUP for PRD)

Flood Map # 3710978400J Zone: X Watershed District: Jordan Lake

Existing Access Road (S. R. # and name): Lystra Road SR 1721

Phased Development/Development Schedule? YES [] NO [X] Phases #

Total Acreage 26.58 acres Total # of Lots 23 Min. Lot Size (Acres) 0.39 acres

Max. Lot Size 0.77 acres Avg. Lot Size 0.54 acres # Exempt Lots (over 10 ac.) 0

Please attached a DETAILED Phasing Schedule or Development Schedule (for subdivisions consisting of 50 Lots or More).

Mixed-Use YES [] NO [X] Multi-Family (Townhomes, Apts., etc.) YES [] NO [X]

Proposed Number of Lots: Residential 23 Commercial Other

If Other, Specify (i.e. recreation)

Are there historical structures located on the property that may be 50 years or older, i.e. cemetery, fences, chimneys, structures. Yes [] No [X] If yes, type of structure(s) and date and type of contact, i.e. on-site visit, telephone, letter, with Chatham County Historical Association:

Type of Wastewater Disposal: Individual Septic [] Community Septic [] Public System [X]

Type of Water System: Individual Well [] Community Well(s) [] Public System [X]

Public Water System Name: Chatham County

Public Wastewater System Name (ex. Aqua NC): Aqua, NC

Type of Road: Private Length (mi.): 0.34 Public Length (mi.): _____

Road Surface: Paved Gravel Width of Road Surface (feet) 27-foot B-B

Type and Acreage of Other Facilities (ex. Recreation, Mixed-Use, Commercial, etc.):

PERMITS/APPROVALS REQUIRED: (copies of all required permits shall be included with Construction Plan submittal)

- | | | | |
|--|---|------------|---|
| NCDOT ROAD PLAN APPROVAL | YES <input type="checkbox"/> | DATE _____ | N/A <input checked="" type="checkbox"/> |
| NCDOT COMMERCIAL DRIVEWAY PERMIT | YES <input type="checkbox"/> | DATE _____ | N/A <input checked="" type="checkbox"/> |
| EROSION CONTROL PLAN APPROVAL | YES <input checked="" type="checkbox"/> | DATE _____ | N/A <input type="checkbox"/> |
| STORMWATER PLAN APPROVAL | YES <input checked="" type="checkbox"/> | DATE _____ | N/A <input type="checkbox"/> |
| NCDENR (401 WATER QUALITY CERT) | YES <input type="checkbox"/> | DATE _____ | N/A <input checked="" type="checkbox"/> |
| U.S. ARMY CORPS OF ENGINEERS (404 STREAM IMPACT) | YES <input type="checkbox"/> | DATE _____ | N/A <input checked="" type="checkbox"/> |
| ROAD NAME REQUEST FORM | YES <input checked="" type="checkbox"/> | DATE _____ | N/A <input type="checkbox"/> |
| COUNTY PUBLIC WATER APPROVAL | YES <input checked="" type="checkbox"/> | DATE _____ | N/A <input type="checkbox"/> |
| STATE PUBLIC WATER APPROVAL (NCDENR) | YES <input checked="" type="checkbox"/> | DATE _____ | N/A <input type="checkbox"/> |
| NCDENR DWQ (WASTE WATER TREATMENT PLANT) | YES <input checked="" type="checkbox"/> | DATE _____ | N/A <input type="checkbox"/> |
| SOIL SCIENTIST REPORT | YES <input type="checkbox"/> | DATE _____ | N/A <input checked="" type="checkbox"/> |

OTHER:

Include one (1) paper copy and (1) electronic copy of all items above (see Digital Document Requirements) and 10 paper copies of Construction Plan (scale not to be more than 200 feet to 1 inch)

Jean R. Fitchell 6/26/13
 Signature of Property Owner/Applicant Date

<i>For Staff Use Only</i>	
Date Received _____	By _____
Date Review Completed _____	Date Applicant Contacted _____
TRC Meeting Date: _____	Construction Plan Approval Date: _____



Soil Erosion and Sedimentation Control

LETTER OF APPROVAL

June 26, 2013

Westfall Associates, LLC
Attention: Jan R. Futrell
128 Yorkchester Way
Raleigh, NC 27615

RE: Project Name: Westfall Subdivision Phase 2A
 Project Number: 2013-013
 Acres approved: 8.5
 Total Acres: 108.44
 Submitted by: CE Group, Inc
 Date Received: May 16, 2013
 Plan Type: Approved

To the Above Named Person and Entity:

This office has reviewed the subject erosion and sedimentation control plan. We find the plan to be acceptable and hereby issue this Letter of Approval. The enclosed Certificate of Approval must be posted at the job site. This plan approval shall expire two (2) years following the date of approval, if no land-disturbing activity has been undertaken.

Section 10 (I) of the Chatham County Sedimentation and Erosion Control Ordinance requires that a copy of the approved erosion control plan be on file at the job site. Also, this letter gives the notice required by G.S. 113A-61.1(a) of our right of periodic inspection to insure compliance with the approved plan.

North Carolina's Sedimentation Pollution Control Act is performance-oriented, requiring protection of existing natural resources and adjoining properties. If, following the commencement of this project, the erosion and sedimentation control plan is inadequate to meet the requirements of the Chatham County Sedimentation and Erosion Control Ordinance, this office may require revisions to the plan and implementation of the revisions to insure compliance with the Act.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition, local city or county ordinances or rules may also apply to this land-disturbing activity. This approval does not supersede any other permit or approval.

Please be aware that your project will be covered by the enclosed NPDES General Stormwater Permit NCGO1000 (Construction Activities). You should first become familiar with all of the requirements for compliance with the enclosed general permit.

Please note that this approval is based in part on the accuracy of the information provided in the Financial Responsibility Form, which you provided. You are requested to file an amended form if there is any change in the information included on the form. Please notify us when you would like to schedule a preconstruction conference. Notification shall be given at least 7 days prior to initiation of activity.

Your cooperation is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Natalie Landry".

Natalie Landry
Environmental Inspector
Chatham County Environmental Quality Department

Enclosures: Certificate of Approval
NPDES Permit



Certificate of Sedimentation and Erosion Control Plan Approval and
Land-Disturbing Permit
For

Westfall Subdivision Phase 2A

Project Name and Location

2013-013
Permit Number

The posting of this certificate certifies that an erosion and sedimentation control plan has been approved for this project by Chatham County, North Carolina in accordance with North Carolina General Statute 113A-57 (4) and 113A-54 (d)(4), the North Carolina Administrative Code, Title 15A, Chapter 4B.0007 (c) and as per applicable sections of the Chatham County Soil Erosion and Sedimentation Control Ordinance. This certificate must be posted at the primary entrance of the job site before construction begins and until establishment of permanent ground cover as required by North Carolina Administrative Code, Title 15A, Chapter 4B.0027 (b) and as per Chatham County's Erosion and Sediment Control Ordinance, Section 5 (i).

Responsible Person: Jan Futrell, Manager Phone: (919) 815-0202

This plan was approved with "modifications" Yes No and / or
"performance reservations" Yes No.

Reviewer: Natalie Landry Date: 6-26-13

THE ORDINANCE REQUIRES THAT A COPY OF
THE EROSION CONTROL PLAN
MUST BE KEPT AVAILABLE AT THE JOB SITE
AT ALL TIMES FOR INSPECTION



Chatham County, NC Stormwater Permit



On the date listed below, the Chatham County Stormwater Administrator received a request to consider the following application:

Application Date:	May 15, 2013 (Nutrient calcs received June 12, 2013)	Approval Date:	June 26, 2013
Record Owner(s):	Westfall Subdivision Phase 2A		
Property Location:	Within existing Westfall SD		
Parcel Identification Number & Lot #:	20092	Acreage:	108.44
Built-Upon Area Coverage (acres):	54.92 acres (overall)	Total Disturbed Area:	8.50 acres (this phase)


Type and Number of BMPs Proposed: One wet pond designed for 90% TSS removal efficiency will be utilized for stormwater control at the site. Pond reduces peak flows to pre-development rates for the required design storms. Nutrient outflow from the development has been shown to meet the required discharge limits for the Lower New Watershed of Jordan Lake.

SECTION 1. APPROVAL. Having reviewed the application and all supporting materials the Stormwater Administrator has determined that the application is complete, and subject to the conditions imposed below, and the proposed development meets the requirements of the Chatham County Stormwater Ordinance.

SECTION 2. CONDITIONS. Therefore, the above referenced site and land used is hereby approved and subject to all applicable provisions of the Chatham County Stormwater Ordinance, Sections 3 and 4 of this permit, and the following condition(s) which the Stormwater Administrator finds necessary for the proposed development to meet the intent of the ordinance:

1. This permit shall be valid for a period of two years from the date of issuance unless a valid building permit has been issued and maintained for the site or the permit has been revoked by Chatham County. If, after two years the permitted activity has not begun nor a valid building permit secured, this permit shall expire.
2. The development of the tract shall proceed in conformity to all plans, design features, and restrictions submitted as part of the stormwater permit application and kept on file by the Chatham County Planning Department except that the Chatham County Stormwater Administrator may approve *minor* changes to such plans as required by field conditions.
3. All other required applications must be received and permits must be obtained prior to the start of the work. These may include, but are not limited to, the following:
Soil Erosion and Sedimentation Control; Flood Damage Prevention; Subdivision, Building Permits and Inspections; NC Department of Transportation; NC Division of Water Quality; US Army Corps of Engineers; and NC DENR-Dam Safety.

Environmental Quality Department – P.O. Box 1550, Pittsboro, NC 27312 – Phone: 919-542-0945 – Fax: 919-542-0058

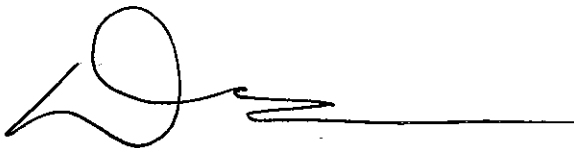
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4. The footprint and stormwater management devices as well as all maintenance access areas shall be located in recorded easement areas. The final plats for the project showing all such easement areas shall be in accordance with the approved plans.
 5. Maintenance activities for the stormwater management devices shall be performed in accordance with the notarized O&M agreements. O&M agreements must transfer with the sale of the land or transfer of ownership/responsibility for the stormwater devices.
 6. Upon completion of a project and before a Certificate of Completion shall be granted, the applicant shall certify that the completed project is in accordance with the approved stormwater management plans and designs and the pond must be landscaped in accordance with the NC DWQ BMP Manual. Upon completion, the applicant shall submit actual "as-built" plans for all stormwater management measures after final construction is completed.

SECTION 3. VESTED RIGHTS. Approval of this permit confers upon the property the right to develop with the type and intensity of use only as such relates to the requirements of the stormwater ordinance and in the manner as herein described and as shown on the approved site plan. Development of the property, however, shall be subject to any and all future amendments to this ordinance which do not affect such type and intensity of use and shall proceed in full compliance with all other applicable local, state and federal regulations.

SECTION 4. DEED RESTRICTION-PROTECTIVE COVENANT. The following italicized deed restrictions and protective covenants shall be recorded for all subdivisions, outparcels, and future development prior to the sale of any lot.

Development of subject property is required to be in accordance with the Chatham County Stormwater Ordinance. The recording of this document establishes an enforceable restriction of property usage that runs with the land to ensure that future development and/or redevelopment shall maintain the site in a manner consistent with applicable law and the approved project plans. Any alterations to the site shall not be permitted without review and approval by Chatham County.

SECTION 5. SEVERABILITY. Invalidation of any one or more of the conditions set forth herein shall not adversely affect the balance of said conditions, which shall remain in full force and effect.



Dan J. LaMontagne, P.E.
Stormwater Administrator

Cc: Lynn Richardson, Subdivision Administrator, Planning Department
Rachael Thorn, Lead Sedimentation and Erosion Control Officer
Anne Lowry, Director, Environmental Health Department
Rebecca McIver, Central Permitting Coordinator

SUBDIVISION: WESTFALL

DIRECTIONS: LOCATED OFF LYSTRA RD (SOUTH SIDE)
NEXT TO BOUTHE HILL SUBDIVISION
WESTFALL

DEVELOPER: ASSOCIATES, LLC PHONE NUMBER: _____

Major Development: X Minor Development: _____

Development with acreage of 10 acreage of 10 acres or more: _____

Proposed road names	OK to submit	DUPLICATED Do not Submit
<u>LYSTRA GRANT CT</u>	<u>✓</u>	_____
<u>WEST BEECH SLOPE CT</u>	<u>✓</u>	_____
<u>FUTRELL RIDGE CT</u>	<u>✓</u>	_____
<u>FUTRELL GRANT CT</u>	<u>✓</u>	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

DATE SUBMITTED TO EOC: 11-26-12

SUBMITTED BY: Joe Faulkner

EOC OFFICER: Lesa Chais

DATE ROADS APPROVED: 11-21-12

DATE FINAL PLAT RECEIVED: _____

DATE GIVEN TO 911: _____

DATE CONTACT MADE WITH NUMBERS: _____

SURROUNDING COUNTY CONTACTED: 11-21-12 - verified on-line

PERSON SPOKEN WITH: _____

COMMENTS: _____

 revised 4/19/02



IN CONTROL DETAILS. 12

IN CONTROL DETAILS. 13

WATER POND DETAILS. 14-15

GENERAL NOTES

ALL UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.

WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.

SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.

SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM NUMBER 9784 MAP NUMBER 3710978400J, DATED FEBRUARY 2, 2007.

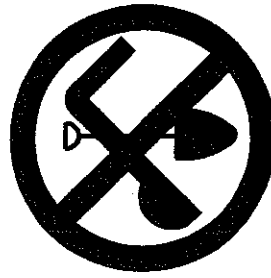
CONTRACTOR SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.

UTILITIES PLAN REVIEW
 Review is for general conformance with Chatham County Specifications, NCDOT, NCDENR and Material standards. This review does not exempt plans from other review requirements.

- Approved
- Approved with Modifications
- Revise and Resubmit
- Disapproved

CHATHAM COUNTY PUBLIC UTILITIES & WATER DIVISION
 P.O. Box 910, Piusboro, NC 27312

Date: 5/24/13 By: *[Signature]*



STOP!
 BEFORE YOU DIG CALL
 THE NC ONE CALL CENTER
 1-800-632-4949
 IT'S THE LAW!

WESTFALL SUBDIVISION PHASE 2A CONSTRUCTION PLANS COVER WILLIAMS TOWNSHIP CHATHAM COUNTY, NORTH CAROLINA

Date:	APRIL 12, 2013
Scale:	-
Drawn:	ACS
Checked:	AJF
Project No.:	800-12



North Carolina Department of Environment and Natural Resources
Division of Water Resources

Pat McCrory
Governor

Thomas A. Reeder
Director

John E. Skvarla, III
Secretary

June 26, 2013

Mr. Charlie Horne, County Manager
Chatham County Board of Commissioners
PO Box 1550
Pittsboro, NC 27312

Re: Engineering Plans and Specifications Approval
Water Main Extension
Westfall Subdivision Phase 2A
Chatham County Water System
Water System No.: NC0319126, Chatham
County
Serial No. 13-00527

Dear Mr. Horne:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans and specifications are approved under Division of Water Resources Serial Number 13-00527, dated June 26, 2013.

Engineering plans and specifications prepared by Mark P. Ashness, P.E. call for the installation of approximately 1,400 feet of 6-inch, and 362 feet of 2-inch water main, valves, hydrants, and other appurtenances to serve Westfall Subdivision, Phase 2.

Please note that an "Authorization to Construct" requires both this approval of Engineering Plans and Specifications and submittal of a complete Water System Management Plan. No construction shall be undertaken, and no contract for construction, alteration, or installations shall be entered into until the Department issues an Authorization to Construct letter in accordance with 15A NCAC 18C .0305(a).

Please also note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance 15 A NCAC 18C .0303 (a) and (c).

These plans and specifications in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction or future operation of the water system.

Charlie Horne
Page 2 of 2
June 26, 2013

One copy of the "Application for Approval..." and a copy of the plans and specifications with a seal of approval from the department are enclosed. One copy of the approved documents in a digital format (CD) is being forwarded to our Raleigh Regional Office. The second copy of the CD is being retained in our office for permanent records.

If the Public Water Supply Section can be of further service, please call (919) 707-9100.

Sincerely,



Siraj Chohan, P.E.
Plan Review Team Leader

SMC/JAR

Enclosures: Approval Document

cc: Michael Douglas, Raleigh Regional Office
Chatham County Health Department
CE Group, Inc.



North Carolina Department of Environment and Natural Resources
Division of Water Quality

Pat McCrory
Governor

Charles Wakild, P.E.
Director

John E. Skvarla, III
Secretary

May 29, 2013

Thomas J. Roberts, President
Aqua North Carolina, Inc.
202 MacKenan Court
Cary, NC 27511


Subject: Permit No. WQ0036529
Aqua North Carolina, Inc.
Westfall Phase 2A
Wastewater Collection System Extension
Chatham County

Dear Mr. Roberts,

It has come to our attention that the permit number referenced above inadvertently showed the subdivision phase as Westfall Phase 1. The correct subdivision phase should be Westfall Phase 2A. The DWQ database has been adjusted accordingly. Please attach this correction letter to your permit.

If you have any questions regarding this permit or require any additional information, please contact Barry Herzberg at (919) 791-4200, or by e-mail to barry.herzberg@ncdenr.gov.

Sincerely,

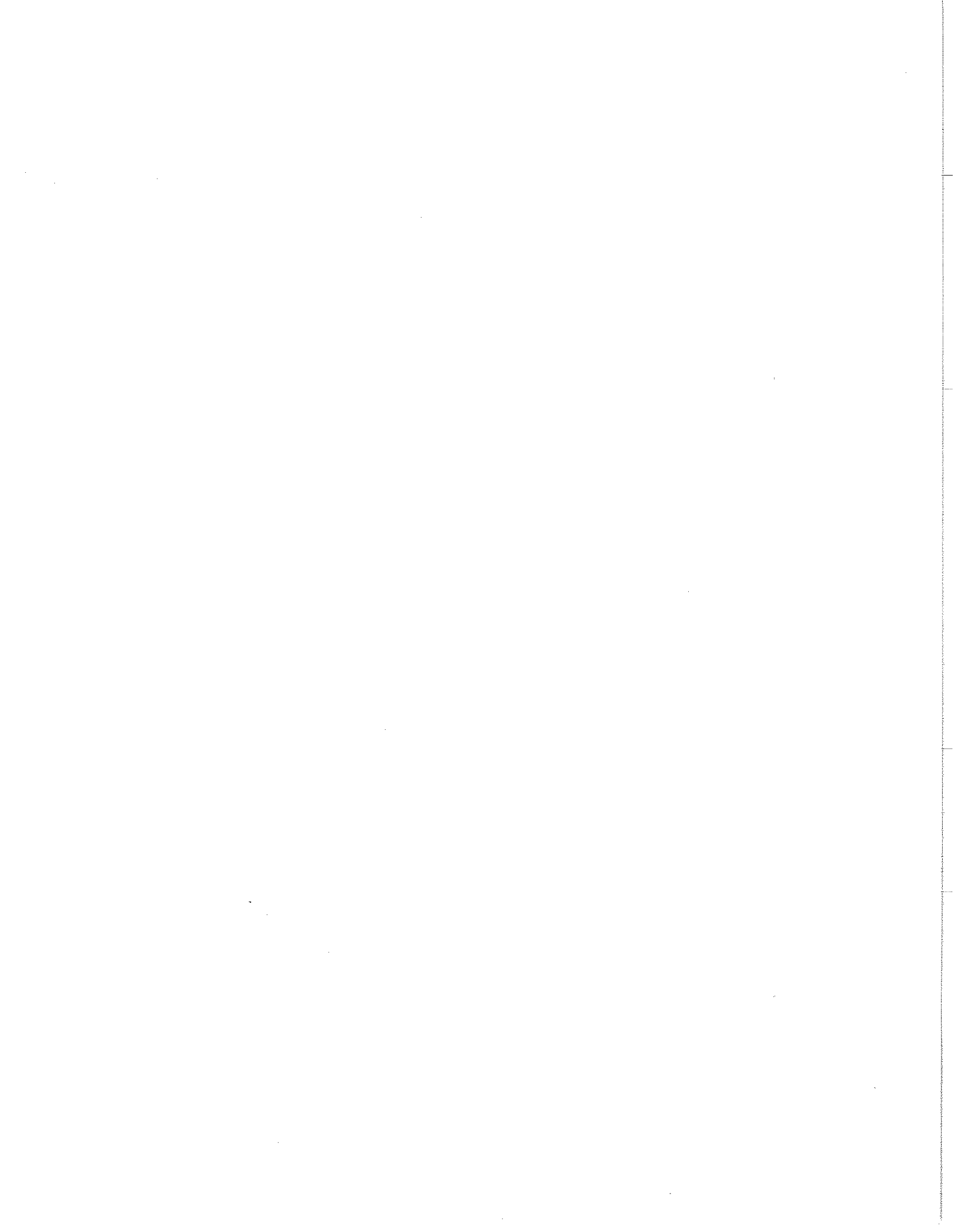


for Charles Wakild, P.E., Director
Division of Water Quality

by S. Daniel Smith
Surface Water Quality Supervisor
Raleigh Regional Office

cc: Mark Ashness, PE; CE Group, 301 Glenwood Avenue Suite 220, Raleigh, NC 27603
Chatham County Health Department
Raleigh Regional Office, Surface Water Protection Section
Water Quality Central Files
PERCS (electronic copy)

One
North Carolina
Naturally





North Carolina Department of Environment and Natural Resources
Division of Water Quality

Pat McCrory
Governor

Charles Wakild, P. E.
Director

John E. Skvarla, III
Secretary

May 16, 2013

Thomas J. Roberts, President
Aqua North Carolina, Inc.
202 MacKenan Court
Cary, NC 27511

Subject: Permit No. WQ0036529
Aqua North Carolina, Inc.
Westfall Phase 1
Wastewater Collection System Extension
Chatham County

Dear Mr. Roberts,

In accordance with your application received May 8, 2013, we are forwarding herewith Permit No. WQ0036529 dated May 16, 2013, to Aqua North Carolina, Inc., for the construction and operation of the subject wastewater collection system extension. This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein. This cover letter and supplement shall be considered a part of this permit and are therefore incorporated therein by reference.

Please pay particular attention to the following conditions contained within this permit:

Condition II.4: Requires that the wastewater collection facilities be properly operated and maintained in accordance with 15A NCAC 2T .0403 or any individual system-wide collection system permit issued to the Permittee.

It shall be responsibility of Aqua North Carolina, Inc., to ensure that the as-constructed project meets the appropriate design criteria and rules. Failure to comply may result in penalties in accordance with North Carolina General Statute §143-215.6A through §143-215.6C, construction of additional or replacement wastewater collection facilities, and/or referral of the North Carolina-licensed Professional Engineer to the licensing board.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made, this permit shall be final and binding.

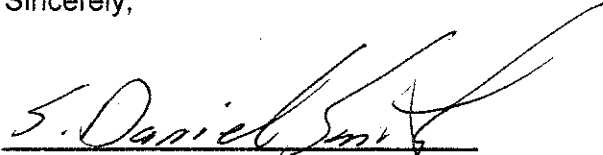
1628 Mail Service Center, Raleigh, North Carolina 27699-1628
(3800 Barrett Drive, Raleigh, North Carolina 27609)
Internet: www.ncwaterquality.org
Customer Service: 877-623-6748

One
North Carolina
Naturally

Aqua North Carolina, Inc.
WQ0036529
May 16, 2013

If you need additional information concerning this matter, please contact Barry Herzberg at (919) 791-4249 or via e-mail to Barry.Herzberg@ncdenr.gov.

Sincerely,



for Charles Wakild, P.E., Director
Division of Water Quality

by S. Daniel Smith
Surface Water Quality Supervisor
Raleigh Regional Office

cc: Mark Ashness, PE; CE Group, 301 Glenwood Avenue Suite 220, Raleigh, NC 27603
Chatham County Health Department
Raleigh Regional Office, Surface Water Protection Section
Raleigh Regional Office, Aquifer Protection Section, Matt Fleahman
Water Quality Central Files
PERCS (electronic copy)



STATE OF NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

WASTEWATER COLLECTION SYSTEM EXTENSION PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations, permission is hereby granted to

Aqua North Carolina, Inc.
Chatham County

for the construction and operation of approximately 1,757 linear feet of 8-inch gravity sewer to serve 23 residential 3 bedroom lots as part of the Westfall Phase 1 project, and the discharge of 8,280 gallons per day of collected domestic wastewater into Aqua North Carolina's Booth Mountain existing sewerage system, pursuant to the application received May 8, 2013, and in conformity with 15A NCAC 2T; the Division's Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the specified conditions and limitations contained therein.

Permit issued this the 16th Day of May 2013.

for Charles Wakild, P.E., Director
Division of Water Quality
By Authority of The Environmental Management Commission

Permit Number: WQ0036529

SUPPLEMENT TO PERMIT COVER SHEET

Aqua North Carolina, Inc. is hereby authorized to:

Construct and then operate upon certification the aforementioned wastewater collection extension. The sewage and wastewater collected by this system shall be treated in the Booth Mountain Development Wastewater Treatment Facility, NPDES Permit number WQ0028798, prior to being land applied by spray irrigation.

Permitting of this project does not constitute an acceptance of any part of the project that does not meet 15A NCAC 2T; the Division of Water Quality's (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; and the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable, unless specifically mentioned herein. Division approval is based on acceptance of the certification provided by a North Carolina-licensed Professional Engineer in the application. It shall be the Permittee's responsibility to ensure that the as-constructed project meets the appropriate design criteria and rules.

Construction and operation is contingent upon compliance with the Standard Conditions and any Special Conditions identified below.

I. SPECIAL CONDITIONS

1. The estimated flow for this project based on 23 residential lots is 8,280 gallons per day. Permit WQ0036510 issued May 6, 2013, limits your pump and haul operation to 8,000 gallons per day. Aqua North Carolina, Inc. should request modification of your pump and haul permit or commence treatment plant operation (when certified to do so) prior to exceeding a total flow of 8,000 gallons per day.

II. STANDARD CONDITIONS

1. **This permit shall not be transferable.** In the event there is a desire for the wastewater collection facilities to change ownership, or there is a name change of the Permittee, a formal permit request shall be submitted to the Division accompanied by documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request shall be considered on its merits and may or may not be approved.
2. This permit shall become voidable unless the wastewater collection facilities are constructed in accordance with the conditions of this permit; 15A NCAC 2T; the Division of Water Quality's (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting materials unless specifically mentioned herein.
3. This permit shall be effective only with respect to the nature and volume of wastes described in the application and other supporting data.
4. The wastewater collection facilities shall be properly maintained and operated at all times. The Permittee shall maintain compliance with an individual system-wide collection system permit for the operation and maintenance of these facilities as required by 15A NCAC 2T .0403. If an individual permit is not required, the following performance criteria shall be met as provided in 15A NCAC 2T .0403:
 - a. The sewer system shall be effectively maintained and operated at all times to prevent discharge to land or surface waters, and to prevent any contravention of groundwater standards or surface water standards.
 - b. A map of the sewer system shall be developed and shall be actively maintained.
 - c. An operation and maintenance plan including pump station inspection frequency, preventative maintenance schedule, spare parts inventory and overflow response has been developed and implemented.

- d. Pump stations that are not connected to a telemetry system shall be inspected every day (i.e. 365 days per year). Pump stations that are connected to a telemetry system shall be inspected at least once per week.
- e. High-priority sewer lines shall be inspected at least once per every six-months and inspections are documented.
- f. A general observation of the entire sewer system shall be conducted at least once per year.
- g. Overflows and bypasses shall be reported to the appropriate Division regional office in accordance with 15A NCAC 2B .0506(a), and public notice shall be provided as required by North Carolina General Statute §143-215.1C.
- h. A Grease Control Program is in place as follows:
 - 1. For public owned collection systems, the Grease Control Program shall include at least biannual distribution of educational materials for both commercial and residential users and the legal means to require grease interceptors at existing establishments. The plan shall also include legal means for inspections of the grease interceptors, enforcement for violators and the legal means to control grease entering the system from other public and private satellite sewer systems.
 - 2. For privately owned collection systems, the Grease Control Program shall include at least bi-annual distribution of grease education materials to users of the collection system by the Permittee or its representative.
 - 3. Grease education materials shall be distributed more often than required in Parts (1) and (2) of this Subparagraph if necessary to prevent grease-related sanitary sewer overflows.
- i. Right-of-ways and easements shall be maintained in the full easement width for personnel and equipment accessibility.
- j. Documentation shall be kept for Subparagraphs (a) through (i) of this Rule for a minimum of three years with exception of the map, which shall be maintained for the life of the system.

5. **Noncompliance Notification:**

The Permittee shall report by telephone to a water quality staff member at the Raleigh Regional Office, telephone number 919-791-4200, as soon as possible, but in no case more than 24 hours or on the next working day, following the occurrence or first knowledge of the occurrence of either of the following:

- a. Any process unit failure, due to known or unknown reasons, that renders the facility incapable of adequate wastewater transport, such as mechanical or electrical failures of pumps, line blockage or breakage, etc.; or
- b. Any SSO and/or spill over 1,000 gallons; or
- c. Any SSO and/or spill, regardless of volume, that reaches surface water

Voice mail messages or faxed information is permissible, but this shall not be considered as the initial verbal report. Overflows and spills occurring outside normal business hours may also be reported to the Division of Emergency Management at telephone number (800) 858-0368 or (919) 733-3300. Persons reporting any of the above occurrences shall file a spill report by completing and submitting Part I of Form CS-SSO (or the most current Division approved form) within five days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur. Part II of Form CS-SSO (or the most current Division approved form) can also be completed to show that the SSO was beyond control.

- 6. Construction of the gravity sewers, pump stations, and force mains shall be scheduled so as not to interrupt service by the existing utilities nor result in an overflow or bypass discharge of wastewater to the surface waters of the State.
- 7. Per 15A NCAC 2T.0116, upon completion of construction and prior to operation of these permitted facilities, the completed Engineering Certification form attached to this permit shall be submitted with the required supporting documents to the address provided on the form. A complete certification is one where the form is fully executed and the supporting documents are provided as applicable. Any wastewater flow made tributary to the wastewater collection system extension prior to completion of this Engineer's Certification shall be considered a violation of the permit and shall subject the Permittee to appropriate enforcement actions.

If the permit is issued to a private entity with an Operational Agreement, then a copy of the Articles of Incorporation, Declarations/Covenants/Restrictions, and Bylaws that have been appropriately filed with the applicable County's Register of Deeds office shall be submitted with the certification.

A complete certification is one where the form is fully executed and the supporting documents are provided as applicable. Supporting documentation shall include the following:

- a. One copy of the project construction record drawings (plan & profile views of sewer lines & force mains) of the wastewater collection system extension. Final record drawings should be clear on the plans or on digital media (CD or DVD disk) and are defined as the design drawings that are marked up or annotated with after construction information and show required buffers, separation distances, material changes, etc.
- b. One copy of the supporting pump station design calculations (selected pumps, system curve, operating point, buoyancy calculations, available storage if portable generator(s) or storage greater than longest past three year outage reliability option selected) for any pump stations permitted as part of this project.
- c. Changes to the project that do not result in non-compliance with this permit, regulations, or the Minimum Design Criteria should be clearly identified on the record drawings, on the certification in the space provided, or in written summary form.

Prior to Certification (Final or Partial): Permit modifications are required for any changes resulting in non-compliance with this permit (including pipe length increases of 10% or greater, increased flow, pump station design capacity design increases of 5% or greater, and increases in the number/type of connections), regulations, or the Minimum Design Criteria. Requested modifications or variances to the Minimum Design Criteria will be reviewed on a case-by-case basis and each on its own merit. Please note that variances to the Minimum Design Criteria should be requested and approved during the permitting process prior to construction. After-construction requests are discouraged by the Division and may not be approved, thus requiring replacement or repair prior to certification & activation.

8. A copy of the construction record drawings shall be maintained on file by the Permittee for the life of the wastewater collection facilities.
9. Failure to abide by the conditions and limitations contained in this permit; 15A NCAC 2T; the Division's Gravity Sewer Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Station and Force Mains adopted June 1, 2000 as applicable; and other supporting materials may subject the Permittee to an enforcement action by the Division, in accordance with North Carolina General Statutes §143-215.6A through §143-215.6C, construction of additional or replacement wastewater collection facilities, and/or referral of the North Carolina-licensed Professional Engineer to the licensing board.
10. In the event that the wastewater collection facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by this Division, such as the construction of additional or replacement facilities.
11. The issuance of this permit shall not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (local, state and federal) which have jurisdiction, including but not limited to applicable river buffer rules in 15A NCAC 2B .0200, erosion and sedimentation control requirements in 15A NCAC Ch. 4 and under the Division's General Permit NCG010000, and any requirements pertaining to wetlands under 15A NCAC 2B .0200 and 15A NCAC 2H .0500.

FAST TRACK ENGINEERING CERTIFICATION

Permittee: Aqua North Carolina, Inc.
Project: Westfall Phase 1

Permit No. WQ0036529
Issue Date: May 16, 2013

Complete and submit this form to the permit issuing regional office with the following:

- One copy of the project record drawings (plan & profile views and detail drawings of sewer lines) of the wastewater collection system extension. Final record drawings should be clear on the plans or on digital media (CD or DVD disk) in pdf format. Record drawings should indicate the design and the marked up changes during construction.
- Supporting design calculations (selected pumps, system curve, operating point, available storage if portable generator(s) or storage greater than longest past three year outage reliability option selected) for any pump stations permitted as part of this project
- Changes to the project should be clearly identified on the record drawings or in written summary form. **Permit modifications are required for any changes resulting in non-compliance with this permit, regulations or minimum design criteria. Modifications should be submitted prior to certification.**

This project shall not be considered complete nor allowed to operate until the Division has received this Engineer's Certification and all required supporting documentation. **Therefore, it is highly recommended that this certification be sent in a manner that provides proof of receipt by the Division.**

PERMITTEE'S CERTIFICATION

I, _____, the undersigned agent for the Permittee, hereby state that this project has been constructed pursuant to the applicable standards & requirements, the Professional Engineer below has provided applicable design/construction information to the Permittee, and the Permittee is prepared to operate & maintain the wastewater collection system permitted herein or portions thereof.

Printed Name, Title

Signature

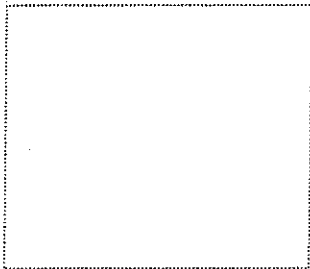
Date

ENGINEER'S CERTIFICATION

Partial Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the subject project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance of this permit; 15A NCAC 02T; the Division of Water Quality's (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting materials.

North Carolina Professional Engineer's Seal, signature, and date:



SEND THIS FORM & SUPPORTING DOCUMENTATION WITH REQUIRED ATTACHMENTS TO THE FOLLOWING ADDRESS

**Surface Water Protection Supervisor
Raleigh Regional Office
1628 Mail Service Center
Raleigh, NC 27699-1628**

The Permittee is responsible for tracking all partial certifications up until a final certification is received. Any wastewater flow made tributary to the wastewater collection system extension prior to completion of this Engineer's Certification shall be considered a violation of the permit and shall subject the Permittee to appropriate enforcement actions.

DWQ use only:

Flow from this project is tributary to: Aqua Booth Mountain

