

Attachment 2
(Mar. 19, 2021, DEQ Notice)



ROY COOPER
Governor
DIONNE DELLI-GATTI
Secretary
S. DANIEL SMITH
Director

March 19, 2021

JOHN McDONALD – MANAGING MEMBER
OLD NORTH STATE WATER COMPANY, LLC
3212 6TH AVENUE SOUTH – SUITE 200
BIRMINGHAM, ALABAMA 35222

Subject: Permit No. WQ0028552
Briar Chapel WWTP
Reclaimed Water Generation,
Dedicated Utilization, and
Wastewater Irrigation System
Chatham County

Dear Mr. McDonald:

In accordance with your permit major modification request received October 13, 2020, and subsequent additional information received February 9, 2021, we are forwarding herewith Permit No. WQ0028552 dated March 19, 2021, to Old North State Water Company, LLC for the continued operation of the existing facilities, as well as the construction and operation of the proposed reclaimed water generation, dedicated utilization, and wastewater irrigation facilities.

The following modifications to the subject permit are as follows: Fields E-3, E-5, and G-5 were removed from permit, the permitted acreages of G-6, G-7, and G-8 were reduced to 2.4 acres, 2.1 acres and 2.5 acres, respectively. Packages E, F, and G were converted from conjunctive utilization fields to dedicated utilization fields. Permitted flow has been increased to 250,000 gallons per day (GPD) based on the constructed reclaimed water generating facilities capacity.

This permit shall be effective from the date of issuance through June 30, 2027, shall void Permit No. WQ0028552 issued February 15, 2021, and shall be subject to the conditions and limitations therein. **The Permittee shall submit a renewal application no later than January 1, 2027.**

Please pay attention to the monitoring requirements listed Attachments A and B for they may differ from the previous permit issuance. Failure to establish an adequate system for collecting and maintaining the required operational information shall result in future compliance problems.

The Division has removed the following permit conditions since the last permit issuance dated February 15, 2021:

- Old Condition I.2. – Updated maps received on March 10, 2021.
- Old Condition IV.5. – This condition is no longer applicable with the Package E, F, and G converting to dedicated utilization fields.
- Old Attachment A – PPI 002 was removed.




The following permit condition is new since the last permit issuance dated February 15, 2021:

- Condition I.1. – This condition requires all stormwater drainage inlets be covered.
- Attachment B – Fields C-6C, C-12A, C-15C, B-4A, B-8A, B-9A, B-9C, D-4, D-17 were removed from the permit per request. Permitted acreages for several fields were updated. Added seasonal restrictions.

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

One set of approved plans and specifications is being forwarded to you. If you need additional information concerning this permit, please contact Vivien Zhong at (919) 707-3627 or vivien.zhong@ncdenr.gov.

Sincerely,


S. Daniel Smith, Director
Division of Water Resources

cc: Chatham County Health Department (Electronic Copy)
Raleigh Regional Office, Water Quality Regional Operations Section (Electronic Copy)
Patrick Mitchell, Winston-Salem Regional Office (Electronic Copy)
Mark Ashness, PE – CE Group, Inc. (Electronic Copy)
Laserfiche File (Electronic Copy)
Digital Permit Archive (Electronic Copy)

NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENTAL QUALITY
RALEIGH

**RECLAIMED WATER GENERATION, DEDICATED UTILIZATION, AND WASTEWATER
IRRIGATION SYSTEM 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

Old North State Water Company, LLC
Chatham County

FOR THE

operation of a 250,000 gallon per day (GPD) reclaimed water generation, dedicated utilization, and wastewater irrigation facility consisting of:

construction and operation of two 250,000 gallon per day (GPD) extended aeration plants (Phases B and C) reclaimed water generation facilities with each phase consisting of: a manually cleaned bar screen; a 75,400 gallon aerated flow equalization basin with two 225 gallon per minute (GPM) variable speed pumps each with an influent flow meter and a 7.5 horsepower (hp) aerator; two 10 hp aerators; two 31,500 gallon clarifiers each with a variable speed sludge return pump; a 75,400 gallon sludge holding basin with a variable speed decanting pump and a 7.5 hp aerator; a 10,730 gallon chlorine contact chamber with two variable speed chlorine injection pumps; a 16,800 gallon mudwell with two 200 GPM return pumps; two 90 square foot (ft²) tertiary filters; dual banks of ultraviolet (UV) modules each with 10 bulbs; a 6,850 gallon dechlorination chamber with two air diffusers; and all associated piping, valves, controls, and appurtenances; the

construction only of a 22,764 GPD dedicated reclaimed water irrigation facility consisting of: a 10.0 acre reclaimed water irrigation area; and all associated piping, valves, controls, and appurtenances; the

construction only of a 44,950 GPD wastewater irrigation facility consisting of: an 18.1 acre wastewater irrigation area; and all associated piping, valves, controls, and appurtenances; the

continued operation of a 250,000 GPD reclaimed water generation facility (Phase A) consisting of: dual static screens (serving Phases A, B, and C); a 75,400 gallon aerated flow equalization basin with two 225 GPM variable speed pumps each with an influent flow meter and a 7.5 hp aerator; two 31,500 gallon anoxic chambers each with two 3 hp mixers; two 189,000 gallon aeration basins each with two 10 hp aerators; two 31,500 gallon clarifiers each with a variable speed sludge return pump; a 75,400 gallon sludge holding basin with a variable speed decanting pump and a 7.5 hp aerator; a 10,730 gallon chlorine contact chamber with two variable speed chlorine injection pumps; a 16,800 gallon mudwell with two 200 GPM return pumps; two 90 ft² tertiary filters; 13,800 gallon clearwell with four 675 GPM backwash pumps (serving Phases A, B, and C); dual banks of UV modules each with 10 bulbs; a 6,850 gallon dechlorination chamber with two air diffusers; an effluent turbidimeter (serving Phases A, B, and C); a permanent auxiliary generator (serving Phases A, B, and C); and all associated piping, valves, controls, and appurtenances; the

continued operation of reclaimed water storage facilities consisting of: a 3.5 MG clay-lined five-day upset pond; five-day upset return pump station with two 400 GPM submersible pumps and audible/visual high-water alarms; a 21.3 MG clay-lined central storage pond with dual 2,000 GPM flooded suction pumps; a 31.3 MG clay-lined western storage pond with a pump station consisting of two 75 hp pumps; approximately 3,775 linear feet (LF) of 10-inch C900 polyvinyl chloride (PVC) reclaimed water transmission line between the western storage pond and the central storage pond; approximately 1,000 LF of 8-inch C900 PVC reclaimed water transmission line; approximately 225 LF of 6-inch C900 PVC reclaimed water transmission line; and all associated piping, valves, controls, and appurtenances; the

continued operation of a sodium hypochlorite feed; and all associated piping, valves, controls, and appurtenances; the

continued operation of a 318,539 GPD dedicated reclaimed water irrigation facility consisting of: a 130.4 acre reclaimed water irrigation area; and all associated piping, valves, controls, and appurtenances

to serve the Briar Chapel WWTP, with no discharge of wastes to surface waters, pursuant to the application received October 13, 2020, subsequent additional information received February 9, 2021, and in conformity with the Division-approved plans and specifications considered a part of this permit.

This permit shall be effective from the date of issuance through June 30, 2027, shall void Permit No. WQ0028552 issued February 15, 2021, and shall be subject to the following conditions and limitations:

I. SCHEDULES

1. Within 75 days of the permit issuance, the Permittee shall cover all the stormwater drainage inlets and notify the Raleigh Regional Office, telephone number (919) 791-4200, once it is complete so that the Division can conduct a follow up inspection. [15A NCAC 02T .0108(b)(1)(B)]
2. Within 45 days of the permit issuance, the Permittee shall file with the Chatham County Register of Deeds the property ownership documentation for the 31.3 MG western storage pond (Chatham County Parcel ID No. 0092927, PIN 976500160180).

The registered property ownership documentation shall be sent to the Division of Water Resources, Non-Discharge Branch, 1617 Mail Service Center, Raleigh, NC 27699-1617 or Non-Discharge.Reports@ncdenr.gov. [15A NCAC 02U .0201(e)]

3. The Permittee may request suspension of PPI 003 and PPI 004, and activation of PPI 005 and PPI 006. The request shall address spray head sampling results and justification for reducing sampling frequency. The sampling reduction shall only occur with approval from the Division. [15A NCAC 02T .0108(b)(1)(A)]
4. Upon completion of construction and prior to operation of any unconstructed facilities permitted herein, the Permittee shall submit an engineering certification from a North Carolina licensed Professional Engineer certifying that the permitted modifications have been constructed in accordance with G.S. 143-215.1, Administrative Code Title 15A Subchapter 02U, this permit, and the Division-approved plans and specifications. For phased and partially certified facilities, the Permittee shall retain the responsibility to track further construction approved under this permit, and shall provide a final engineering certification upon project completion. Mail the Engineering Certification to the Division of Water Resources, Non-Discharge Branch, 1617 Mail Service Center, Raleigh, NC 27699-1617, or Non-Discharge.Reports@ncdenr.gov. [15A NCAC 02T .0116(a)]
5. The Permittee shall notify the Raleigh Regional Office, telephone number (919) 791-4200, at least two business days in advance of initial operation of the constructed facilities so that the Division can conduct a startup inspection. [15A NCAC 02T .0108(b)(1)(B)]

6. Upon completion of construction and prior to irrigation, a minor modification shall be submitted with a soil evaluation for all proposed irrigation areas. The report shall certify that all irrigation areas are capable of accepting the designed loading rate. This report shall specifically address, but not be limited to, soil features such as soil compaction and saturated hydraulic conductivity of the least permeable layer, soil fertility report and any amendments added, as well as any other properties that might impact the soil's ability to accept irrigation water. The soil scientist evaluation shall be submitted to the Division of Water Resources, Non-Discharge Branch, 1617 Mail Service Center, Raleigh, NC 27699-1617 or Non-Discharge.Reports@ncdenr.gov. [15A NCAC 02T .0108(b)(1)(A)]
7. The Permittee shall request renewal of this permit on Division-approved forms no later than January 1, 2027. [15A NCAC 02T .0105(b), 02T .0109]

II. PERFORMANCE STANDARDS

1. The Permittee shall maintain and operate the subject reclaimed water facilities so there is no discharge to surface waters, nor any contravention of groundwater or surface water standards. In the event the facilities fail to perform satisfactorily, including the creation of nuisance conditions due to improper operation and maintenance, or failure of the irrigation/utilization areas to assimilate the effluent/reclaimed water, the Permittee shall take immediate corrective actions, including Division required actions, such as the construction of additional or replacement reclaimed water generation dedicated utilization, and wastewater irrigation facilities. [15A NCAC 02T .0108(b)(1)(A)]
2. This permit shall not relieve the Permittee of their responsibility for damages to groundwater or surface water resulting from the operation of this facility. [15A NCAC 02T .0108(b)(1)(A)]
3. Effluent limitations shall not exceed those specified in Attachment A. [15A NCAC 02U .0301]
4. Application rates, whether hydraulic, nutrient, or other pollutant, shall not exceed those specified in Attachment B. [15A NCAC 02T .0505(c), 02T .0505(n), 02U .0401(g)]
5. The Permittee shall connect the irrigation system to a rain or moisture sensor designed to prevent irrigation during precipitation events or wet conditions. [15A NCAC 02T .0505(x), 02U .0401(k)]
6. All reclaimed water valves, storage facilities, and outlets shall be tagged or labeled to warn the public or employees that the water is not intended for drinking. [15A NCAC 02U .0403(b)]
7. All reclaimed water piping, valves, outlets, and other appurtenances shall be color-coded, taped, or otherwise marked to identify the source of the water as being reclaimed water as follows:
 - a. All reclaimed water piping and appurtenances shall be either colored purple (Pantone 522 or equivalent) and embossed or integrally stamped or marked "CAUTION: RECLAIMED WATER - DO NOT DRINK" or be installed with a purple (Pantone 522 or equivalent) identification tape or polyethylene vinyl wrap. The warning shall be stamped on opposite sides of the pipe and repeated every three feet or less;
 - b. Identification tape shall be at least three inches wide and have white or black lettering on purple (Pantone 522 or equivalent) field stating "CAUTION: RECLAIMED WATER - DO NOT DRINK". Identification tape shall be installed on top of reclaimed water pipelines, fastened at least every 10 feet to each pipe length and run continuously the entire length of the pipe; and
 - c. Existing underground distribution systems retrofitted for the purpose of conveying reclaimed water shall be taped or otherwise identified as noted in II.7.a. and II.7.b. This identification need not extend the entire length of the distribution system but shall be incorporated within 10 feet of crossing any potable water supply line or sanitary sewer line.

[15A NCAC 02U .0403(c)]

8. All reclaimed water valves and outlets shall be of a type, or secured in a manner, that permits operation by personnel authorized by the entity that operates the reclaimed water system. [15A NCAC 02U .0403(d)]
9. Hose bibs shall be located in locked, below grade vaults that shall be labeled as being of non-potable quality. As an alternative to the use of locked vaults with standard hose bib services, other locking mechanisms such as hose bibs that can only be operated by a tool may be placed above ground and labeled as non-potable water. [15A NCAC 02U .0403(e)]
10. There shall be no direct cross-connections between the reclaimed water and potable water systems, unless such connection has been approved by the Department pursuant to 15A NCAC 18C .0406. [15A NCAC 02U .0403(f)]
11. Reclaimed water distribution lines shall be located at least 5 feet horizontally from and 18 inches below any water line if practicable. If these separation distances cannot be met, the piping and integrity testing procedures shall meet water main standards in accordance with 15A NCAC 18C. [15A NCAC 02U .0403(g), 02U .0403(h)]
12. Reclaimed water distribution lines shall not be less than 50 feet from a well unless the piping and integrity testing procedures meet water main standards in accordance with 15A NCAC 18C, but in no case shall they be less than 25 feet from a private well. [15A NCAC 02U .0403(g), 02U .0403(i)]
13. Reclaimed water distribution lines shall meet the separation distances to sewer lines in accordance with 15A NCAC 02T .0305. [15A NCAC 02U .0403(g), 02U .0403(j)]
14. Reclaimed water irrigation fields permitted prior to September 1, 2006 have compliance and review boundaries established at the property boundary. Any exceedance of groundwater standards at or beyond the compliance boundary shall require corrective action. Division-approved relocation of the compliance boundary shall be noted in Attachment B. Multiple contiguous properties under common ownership and permitted for use as a disposal system shall be treated as a single property with regard to determination of a compliance boundary. [15A NCAC 02L .0106, 02T .0105(h), 02H .0219(k)(1)(C)(i)(III), G.S. 143-215.1(i), G.S. 143-215.1(k)]
15. Reclaimed water irrigation fields and wastewater irrigation fields meeting reclaimed water standards permitted on or after September 1, 2006 have compliance and review boundaries established at the irrigation area boundaries. Any exceedance of groundwater standards at or beyond the compliance boundary shall require corrective action. Division-approved relocation of the compliance boundary shall be noted in Attachment B. Multiple contiguous properties under common ownership and permitted for use as a disposal system shall be treated as a single property with regard to determination of a compliance boundary. [15A NCAC 02L .0106, 02L .0107(a), 02T .0105(h), 02T .0506(c), 02U .0501(a)(6), G.S. 143-215.1(i), G.S. 143-215.1(k)]
16. The Permittee shall apply for a permit modification to establish a new compliance boundary prior to any sale or transfer of property affecting a compliance boundary (i.e., parcel subdivision). [15A NCAC 02L .0107(c)]
17. No wells, excluding Division-approved monitoring wells, shall be constructed within the compliance boundary except as provided for in 15A NCAC 02L .0107(g). [15A NCAC 02L .0107]

18. Except as provided for in 15A NCAC 02L .0107(g), the Permittee shall ensure any landowner who is not the Permittee and owns land within the compliance boundary shall execute and file with the Chatham County Register of Deeds an easement running with the land containing the following items:
- A notice of the permit and number or other description as allowed in 15A NCAC 02L .0107(f)(1);
 - Prohibits construction and operation of water supply wells within the compliance boundary; and
 - Reserves the right of the Permittee or the State to enter the property within the compliance boundary for purposes related to the permit.

The Director may terminate the easement when its purpose has been fulfilled or is no longer needed.

[15A NCAC 02L .0107(f)]

19. The facilities herein were permitted per the following setbacks:

- The Package A (Central, East and South) reclaimed water irrigation sites were originally permitted April 29, 2005. The setbacks for irrigation sites originally permitted or modified from June 1, 1996 to August 31, 2006 are as follows (all distances in feet):
 - Surface waters classified SA: 100
 - Surface waters not classified SA: 25
 - Each water supply well: 100
 - Each non-potable well: 10
 - Each swimming pool: 25

[15A NCAC 02H .0219(k)(1)(C)(i)]

- b. The Package B wastewater irrigation sites were originally permitted May 22, 2008. The setbacks for spray irrigation sites originally permitted or modified from September 1, 2006 to August 31, 2018 are as follows (all distances in feet):

i. Each habitable residence or place of assembly under separate ownership:	400 ¹
ii. Each habitable residence or place of assembly owned by the Permittee:	200
iii. Each private or public water supply source:	100
iv. Surface waters:	100
v. Groundwater lowering ditches:	100
vi. Surface water diversions:	25
vii. Each well with exception of monitoring wells:	100
viii. Each property line:	0 ^{2,3}
ix. Top of slope of embankments or cuts of two feet or more in vertical height:	15
x. Each water line:	10
xi. Subsurface groundwater lowering drainage systems:	100
xii. Each swimming pool:	100
xiii. Public right of way:	50
xiv. Nitrification field:	20
xv. Each building foundation or basement:	15

¹ Habitable residences or places of assembly under separate ownership constructed after the facilities herein were originally permitted or subsequently modified are exempt from this setback.

² Setbacks to property lines are not applicable when the Permittee, or the entity from which the Permittee is leasing, owns both parcels separated by the property line.

³ Achieving the reclaimed water effluent standards established in 15A NCAC 02U .0301 shall permit the system to use the setbacks set forth in 15A NCAC 02U .0701(d) for property lines.

[15A NCAC 02T .0506(a), 02T .0506(c), 02T .0506(e), 02T .0506(f)]

- c. The Packages C and D reclaimed water irrigation sites were originally permitted May 18, 2009 and November 5, 2010. The setbacks for irrigation sites originally permitted or modified from September 1, 2006 to June 17, 2011 are as follows (all distances in feet):

i. Surface waters classified SA:	100
ii. Surface waters not classified SA:	25
iii. Each well with exception of monitoring wells:	100

[15A NCAC 02T .0912(b)]

- d. The Packages E, F, and G reclaimed water irrigation sites were originally permitted July 27, 2012, April 1, 2013 and September 12, 2014 and were modified March 19, 2021. The setbacks for irrigation sites originally permitted or modified on or after June 18, 2011 are as follows (all distances in feet):

i. Surface waters classified SA:	100
ii. Surface waters not classified SA:	25
iii. Each well with exception of monitoring wells:	100

[15A NCAC 02U .0701(c)]

- e. The storage and treatment units except for the 31.3 MG western storage pond were originally permitted April 29, 2005. The setbacks for storage and treatment units originally permitted or modified from June 1, 1996 to August 31, 2006 are as follows (all distances in feet):

i. Each habitable residence or place of assembly under separate ownership:	100 ¹
ii. Each private or public water supply source:	100
iii. Surface waters:	50
iv. Each well with exception of monitoring wells:	100
v. Each property line:	50 ²
vi. Nitrification field:	20

¹ Habitable residences or places of assembly under separate ownership constructed after the facilities herein were originally permitted or subsequently modified are exempt from this setback.

² Setbacks to property lines are not applicable when the Permittee, or the entity from which the Permittee is leasing, owns both parcels separated by the property line.

[15A NCAC 02H .0219(j)(5)]

- f. The 31.3 MG western storage pond was originally permitted January 14, 2021. The setbacks for storage and treatment units originally permitted or modified on or after September 1, 2018 are as follows (all distances in feet):

i. Each habitable residence or place of assembly under separate ownership:	100 ¹
ii. Each private or public water supply source:	100
iii. Surface waters:	50
iv. Each well with exception of monitoring wells:	100
v. Each property line:	50 ²

¹ Habitable residences or places of assembly under separate ownership constructed after the facilities herein were originally permitted or subsequently modified are exempt from this setback.

² Setbacks to property lines are not applicable when the Permittee, or the entity from which the Permittee is leasing, owns both parcels separated by the property line.

[15A NCAC 02U .0701(a), 02U .0701(h), 02U .0701(i)]

III. OPERATION AND MAINTENANCE REQUIREMENTS

1. The Permittee shall operate and maintain the subject facilities as a non-discharge system. [15A NCAC 02T .0500, 02U .0101]
2. The Permittee shall maintain an Operation and Maintenance Plan, which shall include:
 - a. A description of the operation of the system in detail to show what operations are necessary for the system to function and by whom the operations are to be conducted;
 - b. A description of anticipated maintenance of the system;
 - c. Provisions for safety measures, including restriction of access to the site and equipment; and
 - d. Spill control provisions that include response to upsets and bypasses, including control, containment, and remediation, and contact information for personnel, emergency responders, and regulatory agencies;

[15A NCAC 02T .0507(a), 02U .0801(a)]
3. Upon the Water Pollution Control System Operators Certification Commission's (WPCSOCC) classification of the subject non-discharge facilities, the Permittee shall designate and employ a certified operator in responsible charge (ORC), and one or more certified operators as back-up ORCs. The ORC or their back-up shall operate and visit the facilities as required by the WPCSOCC. [15A NCAC 02T .0117]
4. An operator certified by the Water Pollution Control System Operators Certification Commission (WPCSOCC) of a grade equivalent or greater than the facility classification shall be on call 24 hours per day. [15A NCAC 02U .0401(e)]
5. The Permittee shall maintain vegetative cover on the irrigation sites, such that crop health is optimal, allows even effluent distribution, and allows inspection of the irrigation system. [15A NCAC 02T .0507(b), 02U .0801(b)]
6. The Permittee shall take measures to prevent effluent ponding in or runoff from the irrigation sites listed in Attachment B. [15A NCAC 02T .0507(c), 02U .0801(c)]
7. The Permittee shall not irrigate treated effluent during inclement weather, or when the soil is in a condition that will cause ponding or runoff. [15A NCAC 02T .0505(x), 02U .0401(k)]
8. Irrigation equipment shall be tested and calibrated once per permit cycle. [15A NCAC 02T .0507(d), 02U .0801(d)]
9. The turbidimeter shall be tested and calibrated at a minimum of once per year. Calibration records shall be maintained at the facility for a period of no less than five years, and shall be made available to the Division upon request. [15A NCAC 02T .0108(b)(1)(A)]
10. Only reclaimed water generated from the Briar Chapel WWTP shall be irrigated on the sites listed in Attachment B. [15A NCAC 02T .0501, 02U .0101]
11. The Permittee shall not allow vehicles or heavy machinery on the irrigation area, except during equipment installation or maintenance activities. [15A NCAC 02T .0507(e), 02U .0801(e)]
12. The Permittee shall prohibit public access to the wastewater treatment and storage facilities. [15A NCAC 02U .0402(e)]
13. Public access to reclaimed water utilization sites shall be controlled during active site use. Such controls may include the posting of signs showing the activities being conducted at each site. [15A NCAC 02U .0501(a)(2)]

14. The Permittee shall prohibit public access to the wastewater treatment, storage, and irrigation facilities. [15A NCAC 02T .0505(q)]
15. The Permittee shall dispose or utilize generated residuals in a Division-approved manner. [15A NCAC 02T .0508, 02T .1100, 02U .0802].
16. The Permittee shall not divert or bypass untreated or partially treated reclaimed water from the subject facilities. [15A NCAC 02T .0505(j), 02U .0402(g)]
17. Freeboard in the 3.5 MG clay-lined five-day upset pond, 21.3 MG clay-lined central storage pond, and 31.3 MG clay-lined western storage pond shall not be less than two feet at any time. [15A NCAC 02T .0505(d), 02U .0401(h)]
18. Gauges to monitor water levels in the 3.5 MG clay-lined five-day upset pond, 21.3 MG clay-lined central storage pond, and 31.3 MG clay-lined western storage pond shall be provided. These gauges shall have readily visible permanent markings, at inch or tenth of a foot increments, indicating the following elevations: maximum liquid level at the top of the temporary liquid storage volume; minimum liquid level at the bottom of the temporary liquid storage volume; and the lowest point on top of the dam. [15A NCAC 02T .0507(f), 02U .0801(f)]
19. A protective vegetative cover shall be established and maintained on all berms, pipe runs, erosion control areas, surface water diversions, and earthen embankments (i.e., outside toe of embankment to maximum allowable temporary storage elevation on the inside of the embankment). Trees, shrubs, and other woody vegetation shall not be allowed to grow on the earthen dikes or embankments. Earthen embankments shall be kept mowed or otherwise controlled and accessible. [15A NCAC 02T .0507(g), 02U .0801(g)]
20. Metering equipment shall be tested and calibrated annually. [15A NCAC 02T .0507(d), 02U .0801(d)]
21. An automatically activated standby power source capable of powering all essential treatment units shall be on site and operational at all times. If a generator is employed as an alternate power supply, it shall be tested weekly by interrupting the primary power source. [15A NCAC 02T .0505(l), 02U .0401(d)]
22. Continuous online monitoring and recording for turbidity or particle count and flow shall be provided prior to storage, distribution, or utilization of reclaimed water. [15A NCAC 02U .0401(b)]
23. If turbidity exceeds 10 NTUs or if the permitted pathogen levels cannot be met, all effluent shall be routed to the 3.5 MG clay-lined five-day upset pond until the problems associated with the reclaimed water generation system have been corrected. The water in the 3.5 MG clay-lined five-day upset pond shall be pumped back to the treatment plant headworks for re-treatment or treated in the 3.5 MG clay-lined five-day upset pond prior to utilization. [15A NCAC 02U .0402(d)]
24. The Permittee shall provide notification to the public and its employees about the use of reclaimed water, and that reclaimed water is not intended for drinking. Such notification shall be provided to employees in a language they can understand. [15A NCAC 02U .0501(a)(2)]
25. The Permittee shall develop and implement an education program to inform users and its employees about the proper use of reclaimed water. Educational material shall be provided to all residents and/or other facilities provided with reclaimed water, and these materials shall be maintained consistent with the reclaimed water uses. All educational materials shall be made available to the Division upon request. [15A NCAC 02U .0501(a)(4)]
26. The subject permitted wastewater treatment facility shall only treat domestic wastewater. The wastewater treatment plant shall not accept any wastewater from commercial facilities deemed industrial (i.e., from process of trade or business, laundromats, or vehicle/equipment washes) under 15A NCAC 02T .0103(20). [15A NCAC 02T .0108(b)(1)(A)]

IV. MONITORING AND REPORTING REQUIREMENTS

1. The Permittee shall conduct and report any Division required monitoring necessary to evaluate this facility's impact on groundwater and surface water. [15A NCAC 02T .0108(c)]
2. A Division-certified laboratory shall conduct all analyses for the required effluent, groundwater, and surface water parameters. [15A NCAC 02H .0800]
3. Flow through the treatment facility shall be continuously monitored, and daily flow values shall be reported on Form NDMR. Facilities with a permitted flow less than 10,000 GPD may estimate their flow from water usage records provided the water source is metered. [15A NCAC 02T .0105(k), 02T .0108(c)]
4. The Permittee shall monitor the generated reclaimed water at the frequencies and locations for the parameters specified in Attachment A. [15A NCAC 02T .0108(c)]
5. The Permittee shall maintain records tracking the amount of effluent/reclaimed water irrigated. These records shall include the following information for each wastewater irrigation and dedicated utilization site listed in Attachment B:
 - a. Date of irrigation;
 - b. Volume of reclaimed water irrigated;
 - c. Site irrigated;
 - d. Length of time site is irrigated;
 - e. Continuous weekly, monthly, and year-to-date hydraulic (inches/acre) loadings;
 - f. Continuous monthly and year-to-date loadings for any non-hydraulic parameter specifically limited in Attachment B;
 - g. Weather conditions; and
 - h. Maintenance of cover crops.

[15A NCAC 02T .0108(c)]
6. Freeboard (i.e., water level to the lowest embankment elevation) in the 3.5 MG clay-lined five-day upset pond, 21.3 MG clay-lined central storage pond, and 31.3 MG clay-lined western storage pond shall be measured to the nearest inch or tenth of a foot, and recorded weekly. Weekly freeboard records shall be maintained for five years, and shall be made available to the Division upon request. [15A NCAC 02T .0108(c)]
7. Three copies of all monitoring data (as specified in Conditions IV.3. and IV.4.) on Form NDMR for each PPI and three copies of all operation and disposal records (as specified in Conditions IV.5. and IV.6.) on Form NDAR-1 for every site in Attachment B shall be submitted on or before the last day of the following month. If no activities occurred during the monitoring month, monitoring reports are still required documenting the absence of the activity. All information shall be submitted to the following address:

Division of Water Resources
 Information Processing Unit
 1617 Mail Service Center
 Raleigh, North Carolina 27699-1617

[15A NCAC 02T .0105(l)]

8. Pursuant to G.S. 143-215.1C(a), the Permittee shall provide to its users and the Division of Water Resources an annual report summarizing the performance of the reclaimed water generation, dedicated utilization, and wastewater irrigation facility and the extent to which the facility has violated this permit, or federal or State laws, regulations, or rules related to the protection of water quality. The report shall address actions taken by the Permittee to address odor complaints, summaries of all sampling programs, irrigation line flushing, and procedures to maintain adequate residual chlorine in the irrigation lines. This report shall be prepared on either a calendar or fiscal year basis and shall be provided no later than 60 days after the end of the calendar or fiscal year. In addition, the Permittee shall submit the report 30 days after request by the Division. Two copies of the annual report provided to the Permittee's users shall be submitted to:

Division of Water Resources
Water Quality Permitting Section
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

[G.S. 143-215.1C(a)]

9. The Permittee shall maintain a record of all residuals removed from this facility. This record shall be maintained for five years, and shall be made available to the Division upon request. This record shall include:
- Name of the residuals hauler;
 - Non-Discharge permit number authorizing the residuals disposal, or a letter from a municipality agreeing to accept the residuals;
 - Date the residuals were hauled; and
 - Volume of residuals removed.

[15A NCAC 02T .0508(b), 02U .0802(b)]

10. A maintenance log shall be kept at this facility. This log shall be maintained for five years, and shall be made available to the Division upon request. This log shall include:
- Date of flow measurement device calibration;
 - Date of irrigation equipment calibration;
 - Date of turbidimeter calibration;
 - Date and results of power interruption testing on alternate power supply;
 - Visual observations of the plant and plant site; and
 - Record of preventative maintenance (e.g., changing of equipment, adjustments, testing, inspections and cleanings, etc.); and
 - Record of all discharges of reclaimed water to surface waters or the land surface, including the date of occurrence, estimated volume, and corrective action taken.

[15A NCAC 02T .0507(h), 02U .0801(h)]

11. An annual representative soils analysis (i.e., Standard Soil Fertility Analysis) shall be conducted on each wastewater irrigation site listed in Attachment B (i.e., all Package B fields). These results shall be maintained at the facility for five years, and shall be made available to the Division upon request. Each Standard Soil Fertility Analysis shall include the following parameters:

Acidity	Exchangeable Sodium Percentage	Phosphorus
Base Saturation (by calculation)	Magnesium	Potassium
Calcium	Manganese	Sodium
Cation Exchange Capacity	Percent Humic Matter	Zinc
Copper	pH	

[15A NCAC 02T .0108(c)]

12. Noncompliance Notification:

The Permittee shall report to the Raleigh Regional Office, telephone number (919) 791-4200, within 24 hours of first knowledge of the following:

- a. Treatment of wastes abnormal in quantity or characteristic, including the known passage of a hazardous substance.
- b. Any process unit failure (e.g., mechanical, electrical, etc.) rendering the facility incapable of adequate wastewater treatment.
- c. Any failure resulting in a discharge untreated or partially treated wastewater to surface waters.
- d. Any failure resulting in a discharge of reclaimed water directly to surface waters or any unpermitted release of reclaimed water to land surface greater than or equal to 5,000 gallons. Unpermitted releases less than 5,000 gallons to land surface shall be documented by the Permittee in accordance with Condition IV.10.g. but do not require Regional Office notification.
- e. Any time self-monitoring indicates the facility has gone out of compliance with its permit limitations.
- f. Ponding in or runoff from the irrigation sites.

Emergencies requiring reporting outside normal business hours shall call the Division's Emergency Response personnel at telephone number (800) 662-7956, (800) 858-0368, or (919) 733-3300. All noncompliance notifications shall file a written report to the Raleigh Regional Office within five days of first knowledge of the occurrence, and this report shall outline the actions proposed or taken to ensure the problem does not recur. [15A NCAC 02T .0108(b)(1)(A)]

V. INSPECTIONS

1. The Permittee shall perform inspections and maintenance to ensure proper operation of the reclaimed water generation, irrigation, and utilization facilities. [15A NCAC 02T .0507(i), 02U .0801(i)]
2. The Permittee shall inspect the reclaimed water generation, irrigation, and utilization facilities to prevent malfunctions, facility deterioration, and operator errors that may result in discharges of wastes to the environment, threats to human health, or public nuisances. The Permittee shall maintain an inspection log that includes the date and time of inspection, observations made, and maintenance, repairs, or corrective actions taken. The Permittee shall maintain this inspection log for a period of five years from the date of the inspection, and this log shall be made available to the Division upon request. [15A NCAC 02T .0507(h), 02T .0507(i), 02U .0801(h), 02U .0801(i)]
3. Division authorized representatives may, upon presentation of credentials, enter and inspect any property, premises, or place related to the reclaimed water generation, irrigation, and utilization facilities permitted herein at any reasonable time for determining compliance with this permit. Division authorized representatives may inspect or copy records maintained under the terms and conditions of this permit, and may collect groundwater, surface water, or leachate samples. [G.S. 143-215.3(a)(2)]

VI. GENERAL CONDITIONS

1. Failure to comply with the conditions and limitations contained herein may subject the Permittee to a Division enforcement action. [G.S. 143-215.6A, 143-215.6B, 143-215.6C]
2. This permit is effective only with respect to the nature and volume of wastes described in the permit application, and Division-approved plans and specifications. [G.S. 143-215.1(d)]
3. Unless specifically requested and approved in this permit, there are no variances to administrative codes or general statutes governing the construction or operation of the facilities permitted herein. [15A NCAC 02T .0105(n)]
4. The issuance of this permit does not exempt the Permittee from complying with all statutes, rules, regulations, or ordinances that other jurisdictional government agencies (e.g., local, state, and federal) may require. [15A NCAC 02T .0105(c)(6)]
5. If the permitted facilities change ownership, or the Permittee changes their name, the Permittee shall submit a permit modification request on Division-approved forms. The Permittee shall comply with all terms and conditions of this permit until the permit is transferred to the successor-owner. [G.S. 143-215.1(d3)]
6. The Permittee shall retain a set of Division-approved plans and specifications for the life of the facilities permitted herein. [15A NCAC 02T .0105(o)]
7. The Permittee shall maintain this permit until the proper closure of all facilities permitted herein, or until the facilities permitted herein are permitted by another authority. [15A NCAC 02T .0105(j)]
8. This permit is subject to revocation or modification upon 60-day notice from the Division Director, in whole or part for:
 - a. violation of any terms or conditions of this permit or Administrative Code Title 15A Subchapter 02T and 02U;
 - b. obtaining a permit by misrepresentation or failure to disclose all relevant facts;
 - c. the Permittee's refusal to allow authorized Department employees upon presentation of credentials:
 - i. to enter the Permittee's premises where a system is located or where any records are required to be kept;
 - ii. to have access to any permit required documents and records;
 - iii. to inspect any monitoring equipment or method as required in this permit; or
 - iv. to sample any pollutants;
 - d. the Permittee's failure to pay the annual fee for administering and compliance monitoring; or
 - e. a Division determination that the conditions of this permit are in conflict with North Carolina Administrative Code or General Statutes.

[15A NCAC 02T .0110]

9. Unless the Division Director grants a variance, expansion of the facilities permitted herein shall not occur if any of the following apply:
- The Permittee or any parent, subsidiary, or other affiliate of the Permittee has been convicted of environmental crimes under G.S. 143-215.6B, or under Federal law that would otherwise be prosecuted under G.S. 143-215.6B, and all appeals of this conviction have been abandoned or exhausted.
 - The Permittee or any parent, subsidiary, or other affiliate of the Permittee has previously abandoned a wastewater treatment facility without properly closing the facility.
 - The Permittee or any parent, subsidiary, or other affiliate of the Permittee has not paid a civil penalty, and all appeals of this penalty have been abandoned or exhausted.
 - The Permittee or any parent, subsidiary, or other affiliate of the Permittee is currently not compliant with any compliance schedule in a permit, settlement agreement, or order.
 - The Permittee or any parent, subsidiary, or other affiliate of the Permittee has not paid an annual fee.

[15A NCAC 02T .0120(b), 02T .0120(d)]

10. This permit shall not be renewed if the Permittee or any affiliation has not paid the required annual fee. [15A NCAC 02T .0120(c)]

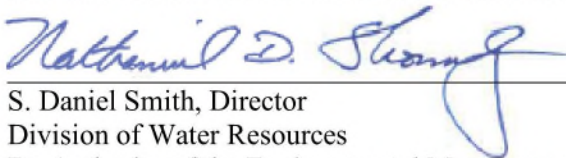
11. Pursuant to the flow reduction request received July 15, 2013, and approved September 30, 2013, the Division accepts the data-based design flow rate of 56 gallons per day per bedroom (GPD/bedroom) for residential single family dwellings served by this facility. The minimum flow for 1 and 2 bedroom dwellings shall be 112 gallons per day. At no time shall wastewater flows exceed the limits defined in this permit, or exceed the sewer capacity downstream of any new sewer extension or service connection.

The Permittee shall report the measured monthly average amount of wastewater flow contributed per unit (GPD/bedroom) for the 12 months prior to permit renewal. If any of these monthly averages are within 20% of the approved value, the Permittee shall reevaluate the approved value using the methodology applied to determine the approved flow rate of 56 GPD/bedroom, and submit this information with the renewal application for reevaluation of the approved flow rate. [15A NCAC 02T .0114(f)]

12. The Permittee shall retain the Division's written approval of the authorized adjusted daily design flow rate for the life of this facility, and shall transfer this approval to any future Permittee. [15A NCAC 02T .0114(f)]

Permit issued this the 19th day of March 2021

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



8 S. Daniel Smith, Director
Division of Water Resources
By Authority of the Environmental Management Commission

Permit Number WQ0028552

Permit No. WQ0028552

Old North State Water Company, LLC
Briar Chapel WWTP

Docket No. W-1300 Sub 92
Reclaimed Water Generation, Dedicated Utilization, and
Wastewater Irrigation System
March 19, 2021
Chatham County

ENGINEERING CERTIFICATION

☐ Partial ☐ Final

I, _____, as a duly licensed North Carolina Professional Engineer, having ☐ periodically / ☐ fully observed the construction of the permitted facilities, do hereby state to the best of my abilities that the facility was constructed in compliance with G.S. 143-215.1, Administrative Code Title 15A Subchapter 02U, this permit, and the Division-approved plans and specifications.

Documentation of any variation to this permit, and the Division-approved plans and specifications, is in the attached as-built drawings.

Description of variations: _____

Professional Engineer's Name		
Firm Name		Firm No.
Address		
City	State	Zip Code
Telephone		Email
		Seal, Signature, and Date

THE COMPLETED ENGINEERING CERTIFICATION, INCLUDING ALL SUPPORTING DOCUMENTATION, SHALL BE SENT TO THE FOLLOWING ADDRESS:

**NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES
NON-DISCHARGE BRANCH**

By U.S. Postal Service
1617 MAIL SERVICE CENTER
RALEIGH, NORTH CAROLINA 27699-1617

By Courier/Special Delivery
512 N. SALISBURY ST.
RALEIGH, NORTH CAROLINA 27604

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Nov 29 2023

00310	BOD, 5-Day (20 °C)	mg/L	10			15	2.5
50060	Chlorine, Total Residual	mg/L					5
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL		14		25	2.5
50050	Flow, in Conduit or thru Treatment Plant	GPD	250,000 ¹				Co
00610	Nitrogen, Ammonia Total (as N)	mg/L	4			6	2.5
00625	Nitrogen, Kjeldahl, Total (as N)	mg/L					2.5
00620	Nitrogen, Nitrate Total (as N)	mg/L					2.5
00600	Nitrogen, Total (as N)	mg/L					2.5
00400	pH	su					5
00665	Phosphorus, Total (as P)	mg/L					2.5
00530	Solids, Total Suspended	mg/L	5			10	2.5
00076	Turbidity, HCH Turbidimeter	NTU				10	Co

1. The 250,000 GPD flow limitation is based upon the capacity of the constructed Phase A reclaimed water generating facilities capacity.

50060	Chlorine, Total Residual	mg/L					V
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					V
00610	Nitrogen, Ammonia Total (as N)	mg/L					V
00530	Solids, Total Suspended	mg/L					V
00076	Turbidity, HCH Turbidimeter	NTU					V

PPI 004 – Irrigation Spray Head at the Maximum Resident Time for the Irrigation System (35.821077°, -79.089082°) (to be PPI 006)

EFFLUENT CHARACTERISTICS		EFFLUENT LIMITS					
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	
00310	BOD, 5-Day (20 °C)	mg/L					V
50060	Chlorine, Total Residual	mg/L					V
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					V
00610	Nitrogen, Ammonia Total (as N)	mg/L					V
00530	Solids, Total Suspended	mg/L					V
00076	Turbidity, HCH Turbidimeter	NTU					V

50060	Chlorine, Total Residual	mg/L					M
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					M
00610	Nitrogen, Ammonia Total (as N)	mg/L					M
00530	Solids, Total Suspended	mg/L					M
00076	Turbidity, HCH Turbidimeter	NTU					M

PPI 006 – Irrigation Spray Head at the Maximum Resident Time for the Irrigation System (35.821077°, -79.089082°) (to be PPI 004)

EFFLUENT CHARACTERISTICS		EFFLUENT LIMITS					
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	
00310	BOD, 5-Day (20 °C)	mg/L					M
50060	Chlorine, Total Residual	mg/L					M
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					M
00610	Nitrogen, Ammonia Total (as N)	mg/L					M
00530	Solids, Total Suspended	mg/L					M
00076	Turbidity, HCH Turbidimeter	NTU					M

31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					2
00610	Nitrogen, Ammonia Total (as N)	mg/L				1.5	2
00620	Nitrogen, Nitrate Total (as N)	mg/L				10	2
00400	pH	su			6.5	8.5	2
00665	Phosphorus, Total (as P)	mg/L					2
70300	Solids, Total Dissolved - 180 °C	mg/L				500	2

1. 2 x Year sampling shall be conducted in January and July.

PPI 008 – Five-day Upset Pond Underdrain Outfall (35.823056°, - 79.120278°)

EFFLUENT CHARACTERISTICS		EFFLUENT LIMITS					MO
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	Me F
00940	Chloride (as Cl)	mg/L				250	2
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL					2
00610	Nitrogen, Ammonia Total (as N)	mg/L				1.5	2
00620	Nitrogen, Nitrate Total (as N)	mg/L				10	2
00400	pH	su			6.5	8.5	2
00665	Phosphorus, Total (as P)	mg/L					2
70300	Solids, Total Dissolved - 180 °C	mg/L				500	2

1. 2 x Year sampling shall be conducted in January and July.

A South	C-1A	Chatham County	Chatham	35.809700°	-79.113100°	6.7		6.7	WeB	Dedicated Utilization	Dr Appli
	C-1B	Chatham County	Chatham	35.809653°	-79.113243°		1.3	1.3	WeB	Dedicated Utilization	012 Dr Appli
	C-2A	Chatham County	Chatham	35.812500°	-79.110600°	1.3		1.3	HeB	Dedicated Utilization	012 Dr Appli
	C-2C	Chatham County	Chatham	35.810600°	-79.109700°	5.6		5.6	WeB	Dedicated Utilization	012 Dr Appli
	C-2D	Chatham County	Chatham	35.811400°	-79.110000°	2.1		2.1	WeB	Dedicated Utilization	012 Dr Appli
	C-3D	Chatham County	Chatham	35.811900°	-79.112800°	0.2		0.2	WeB	Dedicated Utilization	012 Dr Appli
	C-3F	Chatham County	Chatham	35.810410°	-79.113890°	2.2		2.2	WeB	Dedicated Utilization	012 Dr Appli
A Central	C-6A	NNP Briar Chapel, LLC	Chatham	35.819408°	-79.117072°		0.3	0.3	RnB	Dedicated Utilization	012 Dr Appli
	C-9A	NNP Briar Chapel, LLC	Chatham	35.822500°	-79.119700°	4.3		4.3	HeB	Dedicated Utilization	012 Dr Appli
	C-9B	NNP Briar Chapel, LLC	Chatham	35.820800°	-79.119200°	2.7		2.7	WeB	Dedicated Utilization	012 Dr Appli
	C-12B	Old North State Water Company	Chatham	35.824400°	-79.120000°	2.0		2.0	HeB	Dedicated Utilization	012 Dr Appli
	C-12C	Old North State Water Company	Chatham	35.824685°	-79.121968°	1.2		1.2	WeB	Dedicated Utilization	012 Dr Appli
	C-13A	Briar Chapel Community Association	Chatham	35.823900°	-79.116700°		0.4	0.4	HeB	Dedicated Utilization	012 Dr Appli
	C-13B	NNP Briar Chapel, LLC	Chatham	35.824700°	-79.116400°		1.0	1.0	HeB	Dedicated Utilization	012 Dr Appli

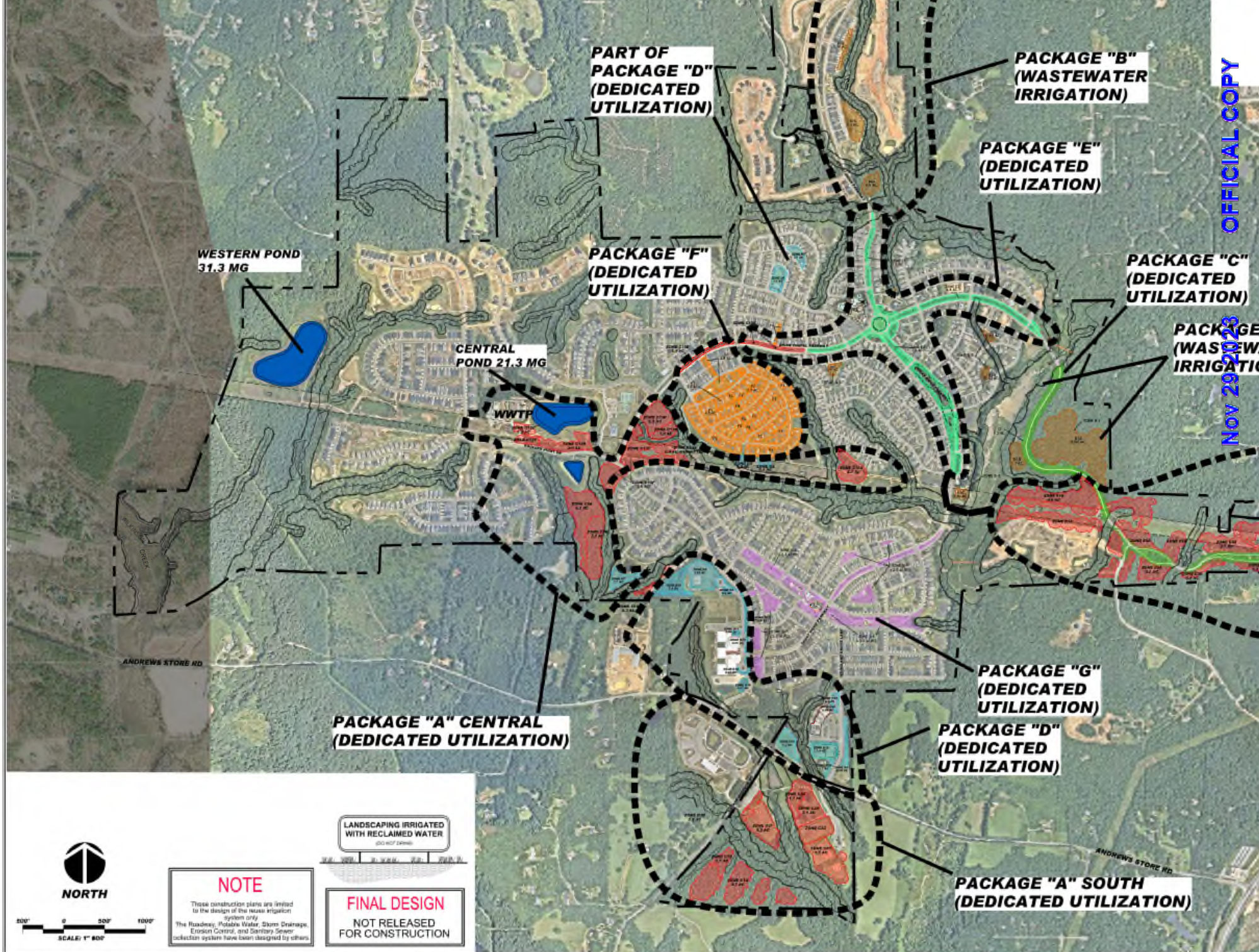
A Central		/NNP Briar Chapel, LLC								Utilization	Appli
	C-15E	Briar Chapel Community Association	Chatham	35.827800°	-79.112500°	1.4		1.4	WeB	Dedicated Utilization	012 Dr Appli
	C-16A	Briar Chapel Community Association	Chatham	35.823600°	-79.107200°	2.1		2.1	WeB	Dedicated Utilization	012 Dr Appli
A East	E-1A	Briar Chapel Community Association /NNP Briar Chapel, LLC	Chatham	35.822500°	-79.100300°	9.8		9.8	WeB	Dedicated Utilization	012 Dr Appli
	E-2A	Briar Chapel Community Association	Chatham	35.820116°	-79.096194°	8.8	0.2	9.0	WeB	Dedicated Utilization	012 Dr Appli
	E-3A	Briar Chapel Community Association	Chatham	35.820300°	-79.091700°	0.8		0.8	HeB	Dedicated Utilization	012 Dr Appli
	E-3B	Briar Chapel Community Association	Chatham	35.819700°	-79.089400°	2.1		2.1	HeB	Dedicated Utilization	012 Dr Appli
	E-3C	Briar Chapel Community Association	Chatham	35.819400°	-79.090800°	3.5		3.5	WeB	Dedicated Utilization	012 Dr Appli
	E-3D	Briar Chapel Community Association	Chatham	35.820000°	-79.094200°	0.9		0.9	RnB	Dedicated Utilization	012 Dr Appli
	E-4A	Briar Chapel Community Association	Chatham	35.821100°	-79.093100°	3.1		3.1	HeB	Dedicated Utilization	012 Dr Appli
	E-4B	NNP Briar Chapel, LLC	Chatham	35.821700°	-79.088300°	2.9		2.9	HeB	Dedicated Utilization	012 Dr Appli
	E-4C	Briar Chapel Community Association	Chatham	35.821100°	-79.090600°	9.3		9.3	RnB	Dedicated Utilization	012 Dr Appli
B	B-1A	Briar Chapel Community Association	Chatham	35.824397°	-79.099542°		9.9	9.9	WeB	Wastewater Irrigation	012 Dr Appli

B	B-3B	Briar Chapel Community Association	Chatham	35.826700°	-79.103100°		0.2	0.2	WeB	Wastewater Irrigation	012 Dr Appli
	B-3C	Briar Chapel Community Association	Chatham	35.828100°	-79.103100°		0.2	0.2	WeB	Wastewater Irrigation	012 Dr Appli
	B-5A	Briar Chapel Community Association	Chatham	35.826904°	-79.109340°		0.4	0.4	WeB	Wastewater Irrigation	012 Dr Appli
	B-6A	Briar Chapel Community Association	Chatham	35.833111°	-79.107813°		0.9	0.9	WeB	Wastewater Irrigation	012 Dr Appli
	B-7A	Briar Chapel Community Association	Chatham	35.835129°	-79.108509°		1.5	1.5	WeB	Wastewater Irrigation	012 Dr Appli
	B-7B	Briar Chapel Community Association	Chatham	35.837800°	-79.108900°		0.6	0.6	WeB	Wastewater Irrigation	012 Dr Appli
	B-8B	NNP Briar Chapel, LLC	Chatham	35.842200°	-79.107500°		1.9	1.9	WeB	Wastewater Irrigation	012 Dr Appli
	B-8D	NNP Briar Chapel, LLC	Chatham	35.840300°	-79.106900°		0.6	0.6	HeB	Wastewater Irrigation	012 Dr Appli
	B-8E	NNP Briar Chapel, LLC	Chatham	35.843600°	-79.106100°		0.5	0.5	HeB	Wastewater Irrigation	012 Dr Appli
C	C-1	Briar Chapel Community Association	Chatham	35.820600°	-79.096100°	9.0	0.5	9.5	WdD	Dedicated Utilization	012 Dr Appli
D	D-2	Briar Chapel Community Association	Chatham	35.823749°	-79.112141°	0.4		0.4	WeB	Dedicated Utilization	012 Dr Appli
	D-3	Briar Chapel Community Association	Chatham	35.823900°	-79.111900°	0.5		0.5	WeB	Dedicated Utilization	012 Dr Appli
	D-5	Briar Chapel Community Association	Chatham	35.829955°	-79.111590°	1.0		1.0	WeB	Dedicated Utilization	012 Dr Appli

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D	D-8	Chatham County	Chatham	35.820000°	-79.114400°	2.6		2.6	See Permit	Dedicated Utilization	012 Dr Appli
	D-9	Chatham County	Chatham	35.819500°	-79.113700°	0.2		0.2	WeB	Dedicated Utilization	012 Dr Appli
	D-10	Chatham County	Chatham	35.818100°	-79.113300°	0.1		0.1	WeB	Dedicated Utilization	012 Dr Appli
	D-11	Chatham County	Chatham	35.818100°	-79.113300°	0.1		0.1	WeB	Dedicated Utilization	012 Dr Appli
	D-13	Chatham County	Chatham	35.818300°	-79.112800°	0.6		0.6	WeB	Dedicated Utilization	012 Dr Appli
	D-15	Chatham County	Chatham	35.817200°	-79.112800°	0.2		0.2	WeB	Dedicated Utilization	012 Dr Appli
	D-16	Chatham County	Chatham	35.816400°	-79.113100°	0.3		0.3	See Permit	Dedicated Utilization	012 Dr Appli
	D-18	Woods Charter	Chatham	35.814400°	-79.111100°	1.3		1.3	See Permit	Dedicated Utilization	012 Dr Appli
	D-19	Woods Charter	Chatham	35.814200°	-79.109700°	1.4		1.4	See Permit	Dedicated Utilization	012 Dr Appli
	D-20	Woods Charter	Chatham	35.813600°	-79.109400°	0.2		0.2	WeB	Dedicated Utilization	012 Dr Appli
	D-21	Woods Charter	Chatham	35.814400°	-79.108900°	0.5		0.5	WeB	Dedicated Utilization	012 Dr Appli
	D-22	Woods Charter	Chatham	35.815600°	-79.109200°	0.1		0.1	WeB	Dedicated Utilization	012 Dr Appli
	D-23	Woods Charter	Chatham	35.832500°	-79.109200°	0.2		0.2	WeB	Dedicated Utilization	012 Dr Appli

E	E-2	Briar Chapel Community Association	Chatham	35.828900°	-79.102200°	4.8		4.8	WeB Urban	Dedicated Utilization	012 Dr Appli
	E-4	Briar Chapel Community Association	Chatham	35.826100°	-79.105000°	3.2		3.2	WeB Urban	Dedicated Utilization	012 Dr Appli
F	F-1	Individual Homeowners	Chatham	35.824200°	-79.113600°	4.9		4.9	WeB Urban	Dedicated Utilization	012 Dr Appli
	F-2	Individual Homeowners	Chatham	35.825000°	-79.112200°	3.7		3.7	WeB Urban	Dedicated Utilization	012 Dr Appli
	F-3	Individual Homeowners	Chatham	35.825800°	-79.111900°	3.7		3.7	WeB Urban	Dedicated Utilization	012 Dr Appli
	F-4	Briar Chapel Community Association	Chatham	35.826400°	-79.113900°	2.8		2.8	WeB Urban	Dedicated Utilization	012 Dr Appli
G	G-6	Briar Chapel Community Association	Chatham	35.819700°	-79.111100°	2.4		2.4	WeB Urban	Dedicated Utilization	012 Dr Appli
	G-7	Briar Chapel Community Association	Chatham	35.818100°	-79.112200°	2.1		2.1	WeB Urban	Dedicated Utilization	012 Dr Appli
	G-8	Briar Chapel Community Association	Chatham	35.818300°	-79.107500°	2.5		2.5	WeB Urban	Dedicated Utilization	012 Dr Appli
	G-9	Briar Chapel Community Association	Chatham	35.820300°	-79.107500°	2.6		2.6	WeB Urban	Dedicated Utilization	012 Dr Appli
	<i>Wastewater Irrigation 02T .0500 Subtotal</i>					<i>0</i>	<i>18.1</i>	<i>18.1</i>			
	<i>Dedicated Utilization 02U Subtotal</i>					<i>130.4</i>	<i>10.0</i>	<i>140.4</i>			
	Totals					130.4	28.1	158.5			



500' 0 500' 1000'
SCALE: 1" = 800'

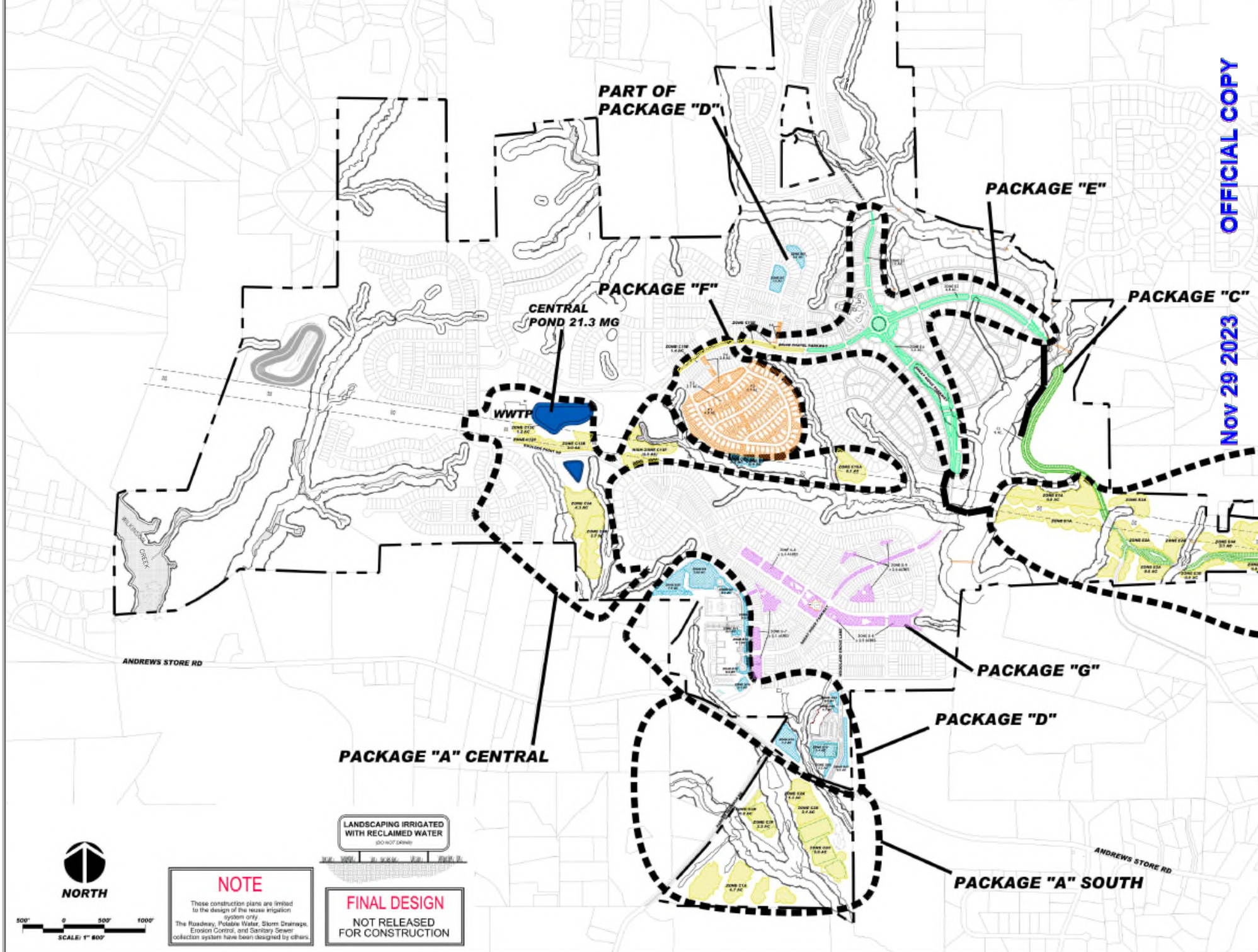
NOTE

These construction plans are limited to the design of the reuse irrigation system only.
The Roadway, Potable Water, Storm Drainage, Erosion Control, and Sanitary Sewer collection systems have been designed by others.

LANDSCAPING IRRIGATED WITH RECLAIMED WATER
(DO NOT DRINK)

FINAL DESIGN

NOT RELEASED FOR CONSTRUCTION





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