

**Please Note:**

**This Parcel**

**Has A**

**State Issued**

**Septic Permit**

**Please contact the**

**State of NC directly,**

**if you have questions**

**regarding the septic system on**

**this Property.**

Neon Impressions

Lot  
Block  
Map

CHATHAM COUNTY HEALTH DEPARTMENT

**Water Supply and Sewage Disposal**  
IMPROVEMENTS PERMIT

No. \_\_\_\_\_

Date 2.28.96

Owner: Neon Impressions, Inc.

Location: Triangle School Building on SR 100E

Contractor: \_\_\_\_\_

Water Supply: Private \_\_\_\_\_ Public \_\_\_\_\_

No. Bedrooms \_\_\_\_\_ Other Business

Daily Flow Rate 600 GPD Application Rate \_\_\_\_\_

Permit to Pump + Haul  
domestic wastewater from restrooms  
effective to August 31, 1996

Size of tank (2) 1500 gal. Nitrification line: \_\_\_\_\_  
-with high water algae- +  
sealed outlet - no discharge.

Water supply and sewage disposal facilities location, installation and protection must meet state and local regulations.

Septic tank should be pumped out every 3 to 5 years and shall be maintained by owner in such a manner as not to create a public health hazard. Septic tank and nitrification line MUST BE INSPECTED AND APPROVED BY A MEMBER OF THE HEALTH DEPARTMENT STAFF BEFORE ANY PORTION OF THE INSTALLATION IS COVERED AND PUT INTO USE.

Signed [Signature]  
Sanitarian

Counter signed \_\_\_\_\_  
(Owner or his representative)

This permit is subject to revocation if site plans or the intended use change. This permit for sewage disposal is valid for 5 years.

**Certificate of Completion**

Date Approved 2.28.96 By: [Signature]  
Sanitarian

(OVER)

Location of well and sewage disposal facilities sketched on back.





ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

LINDA CULPEPPER  
*Interim Director*

June 15, 2018

JESSE MILLER – OWNER  
JORDAN LAKE BUSINESS PARK ASSOCIATION  
1434 FARRINGTON ROAD  
APEX, NORTH CAROLINA 27502

Subject: Permit No. WQ0011777  
Jordan Lake Business Park  
Association WWTF  
Reclaimed Water Generation  
and Non-Conjunctive  
Reclaimed Water Utilization  
System  
Chatham County

Dear Mr. Miller:

In accordance with your permit renewal request received November 6, 2017, and subsequent additional information received April 12, 2018, we are forwarding herewith Permit No. WQ0011777 dated June 15, 2018, to the Jordan Lake Business Park Association for the continued operation of the subject reclaimed water generation and non-conjunctive reclaimed water utilization facilities.

- Your permit's format has been updated to be consistent with the most current reclaimed water permit template, and rule references have been updated pursuant to the new 15A NCAC 02U rules that became effective July 18, 2011.

This permit shall be effective from the date of issuance until May 31, 2023, shall void Permit No. WQ0011777 issued August 15, 2007, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements listed in 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.

**Please note the following permit conditions have been removed since the last permit issuance dated August 15, 2007:**

- Old Conditions I.1. and I.2. – These conditions have been removed.
- Old Condition II.3. – This condition has been removed because there are no groundwater monitoring wells associated with this facility.
- Old Condition II.7. – This condition has been removed.



State of North Carolina | Environmental Quality | Water Resources | Water Quality Permitting | Non-Discharge Permitting

1617 Mail Service Center | Raleigh, North Carolina 27699-1617

919-807-6332

- Old Conditions II.9.iii.-v. – These setbacks were inadvertently added during the previous permit issuance, and have been removed.
- Old Conditions II.15., II.16., II.17., II.18., and II.19. – These conditions have been removed because the facility has been constructed.

**Please note the following permit conditions are new since the last permit issuance dated August 15, 2007:**

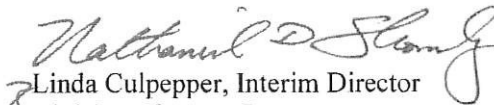
- Condition II.11. – The Permittee is required to apply for a permit modification to establish a new compliance boundary prior to any sale or transfer of property affecting a compliance boundary.
- Condition II.13. - The Permittee is required to ensure any landowner who is not the Permittee and owns land within the compliance boundary executes and files with the Chatham County Register of Deeds an easement running with the land.
- Condition III.4. – Requires an operator certified by the Water Pollution Control System Operators Certification Commission (WPCSOCC) of a grade equivalent or greater than the facility classification to be on call 24 hours per day.
- Condition III.9. – Requires the turbidimeter to be tested and calibrated at a minimum of once per year.
- Condition III.11. – This condition requires that an automatically activated standby power source capable of powering all essential treatment units shall be on site and operational at all times.
- Condition III.12. – This condition requires that public access to the reclaimed water generation facilities be prohibited.
- Condition III.15. – This condition requires that a protective vegetative cover be established and maintained on all earthen embankments, berms, pipe runs, erosion control areas, and surface water diversions.
- Condition III.16. – Requires the Permittee to develop and implement an education program to inform users (including employees) about the proper use of reclaimed water.
- Condition III.17. – Requires the Permittee to provide notification to the public and/or employees about the use of reclaimed water, and that reclaimed water is not intended for drinking.
- Condition III.18. – Requires the Permittee to develop and maintain a training and certification program about the use of reclaimed water for toilet flushing.
- Condition IV.7.c. – Requires the Permittee to keep record of the dates the turbidimeter is calibrated.
- Condition IV.7.f. – Requires the Permittee to keep record of all unpermitted releases of reclaimed water to surface water or land surface.
- Condition IV.9. – Requires three copies of all operation and utilization records to be submitted on Form NDAR-1 for every non-conjunctive utilization site listed in Attachment B.

- Condition IV.10.e. – Requires ponding in or runoff from the reclaimed water utilization sites to be reported as a noncompliance notification.
- Condition VI.8. – States this permit is subject to revocation or unilateral modification upon 60 days notice from the Division Director.
- Condition VI.9. – States that unless the Division Director grants a variance, expansion of the permitted facilities contained herein shall not be granted if the Permittee exemplifies any of the criteria in 15A NCAC 02T .0120(b).
- Attachment A – Total Kjeldahl Nitrogen, Total Nitrate Nitrogen, Total Nitrogen, and Total Phosphorous have been added as parameters for effluent monitoring.
- Attachment B – Toilet flushing activities have been added to reclaimed water uses.

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. Unless such demands are made, this permit shall be final and binding.

If you need additional information concerning this permit, please contact Ashley Kabat at (919) 807-6348 or [ashley.kabat@ncdenr.gov](mailto:ashley.kabat@ncdenr.gov).

Sincerely,

  
Linda Culpepper, Interim Director  
Division of Water Resources

cc: Chatham County Health Department (Electronic Copy)  
Raleigh Regional Office, Water Quality Regional Operations Section (Electronic Copy)  
Laserfiche File (Electronic Copy)  
Digital Permit Archive (Electronic Copy)  
Central Files

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**NORTH CAROLINA**  
**ENVIRONMENTAL MANAGEMENT COMMISSION**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**RALEIGH**

**RECLAIMED WATER GENERATION SYSTEM AND NON-CONJUNCTIVE RECLAIMED  
WATER UTILIZATION SYSTEM PERMIT**

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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

**Jordan Lake Business Park Association**  
Chatham County

FOR THE

continued operation of a 1,200 gallon per day (GPD) reclaimed water generation system consisting of: a 2,000 gallon septic tank with an effluent filter; a flow director valve; Pump Tank 1 with dual 40 gallon per minute (GPM) pumps; a combination 730 square foot (ft<sup>2</sup>) sand filter and horizontal subsurface flow 998 ft<sup>2</sup> constructed wetland with gravel substrate; a 546 ft<sup>2</sup> horizontal subsurface flow constructed wetland with sand substrate; Pump Tank 2 with a 40 GPM pump; two 610 ft<sup>2</sup> sand filters inside a greenhouse; a tablet chlorinator; Pump Tank 3 with a 30 GPM pump and a 10 GPM pump; a reuse water storage tank; Pump Tank 4 with a 10 GPM pump for supplemental water supply; a 100 gallon bladder tank; and all associated piping, valves, controls, and appurtenances; and the

continued operation of a 1,200 GPD non-conjunctive reclaimed water utilization system consisting of: 0.34 acre irrigation area with 300 ft<sup>2</sup> of spray irrigation disposal area with 14 micro-sprayers, 430 ft<sup>2</sup> of drip irrigation area, and 14,000 ft<sup>2</sup> of spray irrigation area with 17 pop-up spray heads; toilet reuse for approximately 60 employees; and all associated piping, valves, controls, and appurtenances

to serve the Jordan Lake Business Park Association WWTF, with no discharge of wastes to surface waters, pursuant to the application received November 6, 2017, and subsequent additional information received by the Division of Water Resources, and in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environmental Quality and considered a part of this permit.

This permit shall be effective from the date of issuance until May 31, 2023, shall void Permit No. WQ0011777 issued August 15, 2007, and shall be subject to the following specified conditions and limitations:

## **I. SCHEDULES**

1. No later than six months prior to the expiration of this permit, the Permittee shall request renewal of this permit on official Division forms. Upon receipt of the request, the Division will review the adequacy of the facilities described therein, and if warranted, will renew the permit for such period of time and under such conditions and limitations as it may deem appropriate. Please note Rule 15A NCAC 02T .0105(d) requires an updated site map to be submitted with the permit renewal application. [15A NCAC 02U .0106, 02U .0109]

## **II. PERFORMANCE STANDARDS**

1. The subject reclaimed water facilities shall be effectively maintained and operated at all times 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 utilization areas to adequately assimilate the reclaimed water, the Permittee shall take immediate corrective actions including Division required actions, such as the construction of additional or replacement reclaimed water generation and utilization facilities. [G.S. 143-215.1, 143-213.3(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 02B .0200, 02L .0100]
3. Effluent limitations for generated reclaimed water shall not exceed those specified in Attachment A. [15A NCAC 02U .0300]
4. Application rates shall not exceed those specified in Attachment B. [15A NCAC 02U .0401(g), 02U .0402(m)]
5. The following shall be requirements for the reclaimed water utilization facilities:
  - a. All reclaimed water valves, storage facilities and outlets shall be tagged or labeled to warn the public or employees that reclaimed water is not intended for drinking. Where appropriate, such warning shall inform the public or employees to avoid contact with reclaimed water.
  - b. 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.
    - i. All reclaimed water piping and appurtenances shall be either colored purple (i.e., Pantone 522) and embossed or integrally stamped or marked "CAUTION: RECLAIMED WATER – DO NOT DRINK" or be installed with a purple (i.e., Pantone 522) identification tape or polyethylene vinyl wrap. The warning shall be stamped on opposite sides of the pipe and repeated every three feet or less.
    - ii. Identification tape shall be at least three inches wide and have white or black lettering on purple (i.e., Pantone 522) field stating "CAUTION: RECLAIMED WATER – DO NOT DRINK." Identification tape shall be installed on reclaimed water pipelines in a visible manner, fastened at least every 10 feet to each pipe length and run continuously the entire length of the pipe.
    - iii. Existing underground distribution systems retrofitted for the purpose of distributing reclaimed water shall be taped or otherwise identified as noted above. 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.
  - c. All reclaimed water valves and outlets shall be of a type, or secured in a manner, that permits operation by authorized personnel only.
  - d. 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 which can only be operated by a tool may be placed above ground and labeled as non-potable water.



[15A NCAC 02U .0403]

6. No direct cross-connections shall be allowed between 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)]
7. Reclaimed water distribution lines shall be located at least 10 feet horizontally from and 18 inches below any water line where practicable. Where 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(h)]
8. Reclaimed water distribution lines shall not be less than 100 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 or 50 feet from a public well. [15A NCAC 02U .0403(i)]
9. Reclaimed water distribution lines shall be located at least two feet horizontally from and 18 inches above any sewer line where practicable. Where 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(j)]
10. The compliance and review boundaries are established at the property boundary. Any exceedance of standards at the compliance or review boundary shall require action in accordance with 15A NCAC 02L .0106. [15A NCAC 02H .0219(k)(1)(C)(i)(III)]
11. 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. [15A NCAC 02L .0107(c)]
12. 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(d)]
13. 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. A notice of the permit and number or other description as allowed in 15A NCAC 02L .0107(f)(1);
  - b. Prohibits construction and operation of water supply wells within the compliance boundary; and
  - c. 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)]

14. The facilities permitted herein shall be constructed according to the following setbacks:
    - a. The setbacks for reclaimed utilization sites shall be as follows (all distances in feet):
      - i. Surface waters not classified SA: 25
      - ii. Surface waters classified SA: 100
      - iii. Any well with exception to monitoring wells: 100
    - b. The setbacks for treatment units shall be as follows (all distances in feet):
      - i. Any well with exception of monitoring wells: 100
      - ii. Any property line: 50
- [15A NCAC 02U .0701]

### **III. OPERATION AND MAINTENANCE REQUIREMENTS**

1. The reclaimed water generation and utilization facilities shall be properly maintained and operated at all times. The facilities shall be effectively maintained and operated as a reclaimed water system to prevent the discharge of any reclaimed water or partially treated effluent resulting from the operation of this facility. [15A NCAC 02T .0108(b)(1)]
2. The Permittee shall maintain an Operation and Maintenance Plan, which at a minimum shall include the following:
  - a. Description of the system in sufficient detail to show what operations are necessary for the system to function and by whom the functions will be conducted;
  - b. A map of all distribution lines and record drawings of all utilization systems under the Permittee's control;
  - c. Description of anticipated maintenance activities;
  - d. Include provisions for safety measures including restriction of access to sites and equipment; and
  - e. Spill control provisions including response to upsets and bypasses including control, containment, remediation, and contact information for plant personnel, emergency responders and regulatory agencies.

[15A NCAC 02U .0801]
3. Upon the Water Pollution Control System Operators Certification Commission's (WPCSOCC) classification of the subject non-discharge facilities, in accordance with 15A NCAC 08G .0200 the Permittee shall designate and employ a certified operator in responsible charge (ORC) and one or more certified operator(s) as back-up ORC(s). The ORC or their back-up shall visit the facilities in accordance with 15A NCAC 08G .0200, and shall comply with all other conditions specified in the previously cited rules. [15A NCAC 02U .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), 02U .0402(i)]
5. A suitable year round vegetative cover shall be maintained on irrigation sites at all times, such that crop health is optimized, allows for even distribution of reclaimed water, and allows inspection of the irrigation system. [15A NCAC 02T .0108(b)(1)]
6. Adequate measures shall be taken to prevent reclaimed water ponding in or runoff from the irrigation sites. [15A NCAC 02T .0108(b)(1)]
7. Irrigation shall not be performed during inclement weather or when the ground is in a condition that will cause ponding or runoff. [15A NCAC 02T .0108(b)(1)]

8. All reclaimed water irrigation equipment shall be tested and calibrated at least once per permit cycle. 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)]
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)]
10. Only reclaimed water generated at the Jordan Lake Business Park Association WWTF shall be utilized in accordance with this permit. [G.S. 143-215.1]
11. 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 02U .0402(h)]
12. Public access to the reclaimed water generation facilities shall be prohibited. [15A NCAC 02U .0402(f)]
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]
14. Diversion or bypassing of untreated or partially treated wastewater from the treatment facilities is prohibited. [15A NCAC 02T .0108(b)(1)]
15. A protective vegetative cover shall be established and maintained on all earthen embankments (i.e., outside toe of embankment to maximum allowable temporary storage elevation on the inside of the embankment), berms, pipe runs, erosion control areas, and surface water diversions. Trees, shrubs, and other woody vegetation shall not be allowed to grow on the earthen dikes or embankments. Earthen embankment areas shall be kept mowed or otherwise controlled and accessible. [15A NCAC 02T .0108(b)(1)]
16. The Permittee shall develop and implement an education program to inform users (including 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)]
17. The Permittee shall provide notification to the public and/or 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]
18. The Permittee shall develop and maintain a training and certification program about the use of reclaimed water for toilet flushing for maintenance employees and appropriate contracted personnel who will be involved in plumbing repairs. The educational material shall include information about prevention of cross connections during plumbing repairs and/or modifications. [15A NCAC 02U .0501(c)]
19. The residuals generated from the wastewater treatment facilities shall be disposed or utilized in accordance with 15A NCAC 02T .1100. The Permittee shall maintain a residual management plan pursuant to 15A NCAC 02U .0802. [15A NCAC 02T .1100, 02U .0802]

#### IV. MONITORING AND REPORTING REQUIREMENTS

1. Any Division required monitoring (including groundwater, plant tissue, soil and surface water analyses) necessary to ensure groundwater and surface water protection shall be established, and an acceptable sampling reporting schedule shall be followed. [15A NCAC 02T .0108(c)]
2. A Division certified laboratory shall conduct all laboratory analyses for the required effluent, groundwater or surface water parameters. [15A NCAC 02H .0800]
3. Flow through the reclaimed water generating facility shall be continuously monitored, and daily average flow values shall be reported on Form NDMR. Flow may be estimated from water use records, provided the Permittee's water use is metered. Daily average flow values shall be calculated by dividing the monthly metered water usage by the number of days in the month. [15A NCAC 02T .0105(k)]
4. The Permittee shall monitor the reclaimed water from the generating facility at the frequencies and locations for the parameters specified in Attachment A. [15A NCAC 02T .0108(c)]
5. The Permittee shall maintain adequate records tracking the amount of reclaimed water utilized. Records shall be maintained for a minimum of five years. At a minimum, these records shall include the following information for each utilization site listed in Attachment B:
  - a. Date of reclaimed water utilization;
  - b. Volume of reclaimed water irrigated or utilized;
  - c. Site irrigated or utilized;
  - d. Length of time site is irrigated or utilized;
  - e. Continuous weekly, monthly, and year-to-date hydraulic (inches/acre) loadings;
  - f. Weather conditions; and
  - g. Maintenance of cover crops.[15A NCAC 02T .0108(c)]
6. A record shall be maintained of all residuals removed from this facility. This record 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. At a minimum, this record shall include:
  - a. Name of the residuals hauler;
  - b. Non-Discharge permit number authorizing the residuals disposal, or a letter from a municipality agreeing to accept the residuals;
  - c. Date the residuals were hauled; and
  - d. Volume of residuals removed.[15A NCAC 02T .0108(c)]
7. A maintenance log shall be maintained at this facility. This log 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. At a minimum, this log shall include:
  - a. Visual observations of treatment plant and plant site;
  - b. Date of calibration of flow measurement device(s);
  - c. Date of calibration of turbidimeter;
  - d. Date and results of power interruption testing on alternate power supply;
  - e. Record of preventative maintenance (e.g., changing/adjusting of equipment, pump and valve maintenance, cross connection control, testing, inspections and cleanings, etc.; and
  - f. Record of all unpermitted releases of reclaimed water to surface water or land surface including date of occurrence, estimated volume of release, cause, and corrective action taken.[15A NCAC 02T .0108(b)(1)]

8. Three copies of all effluent monitoring data and reclaimed water distribution data (as specified in Conditions IV.3. and IV.4.) shall be submitted on Form NDMR for each PPI listed in Attachment A. Reporting forms shall be submitted on or before the last day of the following month. If no reclaimed water distribution activities occurred during the monitoring month, monitoring reports documenting the absence of the activity are still required to be submitted. All effluent monitoring data 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)]
9. Three copies of all operation and utilization records (as specified in Condition IV.5.) shall be submitted on Form NDAR-1 for every non-conjunctive utilization site listed in Attachment B. (Note: conjunctive use sites do not require NDAR-1 submission). Reporting forms shall be submitted on or before the last day of the following month. If no reclaimed water utilization activities occurred during the 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)]

**10. Noncompliance Notification:**

The Permittee shall report by telephone to 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 any 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.), due to known or unknown reasons, rendering the facility incapable of adequate wastewater treatment.
- c. 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.7.f. but do not require Regional Office notification.
- d. Any time self-monitoring indicates the facilities permitted herein have gone out of compliance with the limitations contained in this permit.
- e. Ponding in or runoff from the reclaimed water utilization sites.

Any emergency requiring immediate reporting (e.g., discharges to surface waters, imminent failure of a storage structure, etc.) outside normal business hours shall be reported to the Division's Emergency Response personnel at telephone number (800) 662-7956, (800) 858-0368, or (919) 733-3300. Persons reporting such occurrences by telephone shall also file a written report in letter form within five days following first knowledge of the occurrence. This report shall outline the actions taken or proposed to be taken to ensure the problem does not recur. [15A NCAC 02T .0108(b)(1)]

**V. INSPECTIONS**

1. The Permittee shall provide adequate inspection and maintenance to ensure proper operation of the reclaimed water generation and utilization facilities. [15A NCAC 02T .0108(b)]
2. The Permittee or their designee shall inspect the reclaimed water generation and utilization facilities to prevent malfunction, facility deterioration and operator errors resulting in discharges, which may cause the release of wastes to the environment, a threat to human health or a public nuisance. The Permittee shall maintain an inspection log that includes, at a minimum, the date and time of inspection, observations made, and any 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 .0108(b)]
3. Any duly authorized Division representative may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the reclaimed water generation and utilization facilities permitted herein at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records required to be maintained under the terms and conditions of this permit, and may collect groundwater, surface water or leachate samples. [G.S. 143-215.1]

**VI. GENERAL CONDITIONS**

1. Failure to comply with the conditions and limitations contained herein may subject the Permittee to an enforcement action by the Division in accordance with North Carolina General Statutes 143-215.6A to 143-215.6C. [G.S. 143-215.6A to 143-215.6C]
2. This permit shall become voidable if the permitted facilities are not constructed in accordance with the conditions of this permit, the Division approved plans and specifications, and other supporting documentation. [15A NCAC 02T .0110]
3. This permit is effective only with respect to the nature and volume of wastes described in the permit application, Division approved plans and specifications, and other supporting documentation. No variances to applicable rules governing the construction or operation of the permitted facilities are granted, unless specifically requested and approved in this permit pursuant to 15A NCAC 02T .0105(n). [G.S. 142-215.1]
4. The issuance of this permit does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances, which may be imposed by other jurisdictional government agencies (e.g., local, state, and federal). Of particular concern to the Division are applicable river buffer rules in 15A NCAC 02B .0200; erosion and sedimentation control requirements in 15A NCAC Chapter 4 and under the Division's General Permit NCG010000; any requirements pertaining to wetlands under 15A NCAC 02B .0200 and 02H .0500; National Pollutant Discharge Elimination System (NPDES) requirements under 15A NCAC 02H .0100, and documentation of compliance with Article 21 Part 6 of Chapter 143 of the General Statutes. [15A NCAC 02T .0105(c)(6)]
5. In the event the permitted facilities change ownership or the Permittee changes their name, a written permit modification request shall be submitted to the Division. This request shall be made on official Division forms, and shall include appropriate property ownership documentation and other supporting documentation as necessary. The Permittee of record shall remain fully responsible for maintaining and operating the facilities permitted herein until a permit is issued to the new owner. [15A NCAC 02T .0104]
6. The Permittee shall retain a set of Division approved plans and specifications for the life of the facilities permitted herein. [15A NCAC 02T .0108(b)(1)]
7. The Permittee shall maintain this permit until all permitted facilities herein are properly closed or permitted under another permit issued by the appropriate permitting authority. [15A NCAC 02T .0105(j)]

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PPI 001 – Reclaimed Water Generation System Effluent

EFFLUENT CHARACTERISTICS		EFFLUENT LIMITS				MONITORING REQUIREMENTS		
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
00310	BOD, 5-Day (20 °C)	mg/L	10			15	4 x Year <sup>1</sup>	Grab
50060	Chlorine, Total Residual	mg/L			0.5		Weekly	Grab
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL		14		25	4 x Year <sup>1</sup>	Grab
50050	Flow, in Conduit or thru Treatment Plant	GPD	1,200				Monthly	Estimate
00610	Nitrogen, Ammonia Total (as N)	mg/L	4			6	4 x Year <sup>1</sup>	Grab
00625	Nitrogen, Kjeldahl, Total (as N)	mg/L					4 x Year <sup>1</sup>	Grab
00620	Nitrogen, Nitrate Total (as N)	mg/L					4 x Year <sup>1</sup>	Grab
00600	Nitrogen, Total (as N)	mg/L					4 x Year <sup>1</sup>	Grab
00400	pH	su					Weekly	Grab
00665	Phosphorus, Total (as P)	mg/L					4 x Year <sup>1</sup>	Grab
00530	Solids, Total Suspended	mg/L	5			10	4 x Year <sup>1</sup>	Grab
00076	Turbidity, HCH Turbidimeter	NTU				10	Continuous	Recorder

1. 4 x Year sampling shall be conducted in February, May, August, and November.



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**ATTACHMENT B – APPROVED RECLAIMED WATER USES  
NON-CONJUNCTIVE LAND APPLICATION SITES**

**Permit Number: WQ0011777**

**Version: 4.0**

**Jordan Lake Business Park Association – Jordan Lake Business Park Association WWTF**

Zone	IRRIGATION AREA INFORMATION						APPLICATION LIMITATIONS			
	Owner	County	Latitude	Longitude	Net Acreage	Dominant Soil Series	Parameter	Hourly Rate	Yearly Max	Units
1	Jordan Lake Business Park Association	Chatham	35.755263°	-79.008917°	0.34	Creedmoor – Green Level Complex	01284 – Non-Discharge Application Rate	0.2	48	inches
<b>Totals</b>					<b>0.34</b>					

**ONSITE CONJUNCTIVE USES <sup>1</sup>**

**Jordan Lake Business Park Association – Jordan Lake Business Park Association**

Site ID	Location Name	Owner <sup>2</sup>	County	Latitude	Longitude	Approved Use	Parameter
1	Jordan Lake Business Park	Barnes Andrew Sheridan	Chatham	35.755746°	-79.008361°	Toilet flushing	
2	Jordan Lake Business Park	Swift Creek Property Management, LLC	Chatham	35.755572°	-79.008176°	Toilet flushing	
3	Jordan Lake Business Park	Miller Property Management, LLC	Chatham	35.755504°	-79.008418°	Toilet flushing	
4	Jordan Lake Business Park	Faget George	Chatham	35.755290°	-79.008243°	Toilet flushing	
5	Jordan Lake Business Park	Worthington Nathalie Trustee	Chatham	35.755135°	-79.008084°	Toilet flushing	
6	Jordan Lake Business Park	Beech Hill, LLC	Chatham	35.755390°	-79.008038°	Toilet-flushing	







**Notes:**

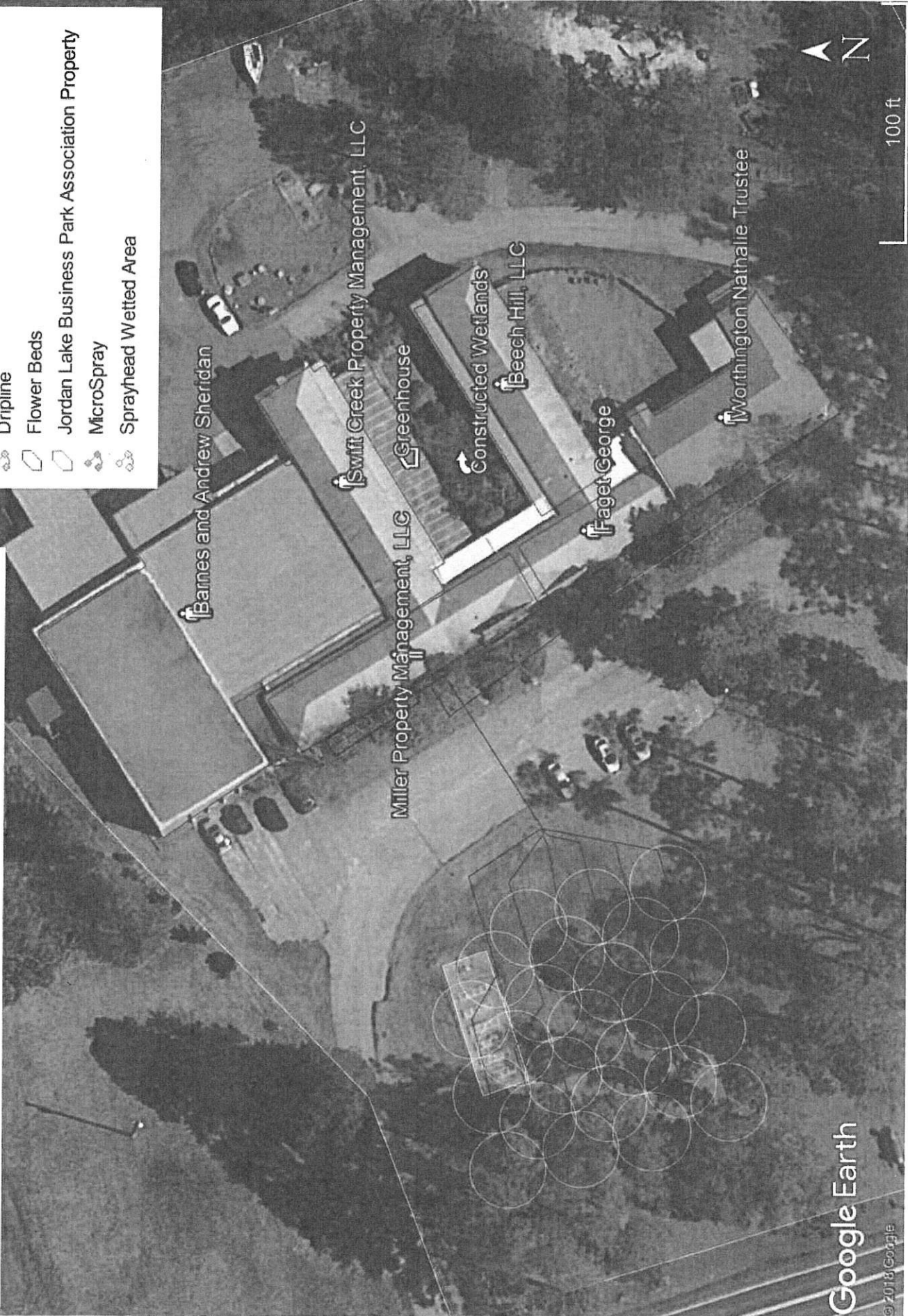
- Utilization records for these sites are not required to be reported on Form NDAR-1.
- Per the addendum to the Declarations of the Jordan Lake Business Park Association revised on April 7, 2018, an agreement exists between these owners and Jordan Lake Business Park Association to maintain the reclaimed water toilet flushing in their building (see attached).

**Figure 1: Jordan Lake Business Park Association**

WQ0011777

**Legend**

-  Building Owner
-  Dripline
-  Flower Beds
-  Jordan Lake Business Park Association Property
-  MicroSpray
-  Sprayhead Wetted Area



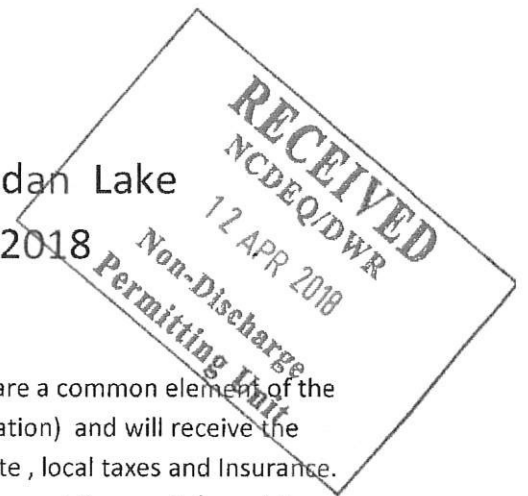
Google Earth

© 2013 Google



100 ft

## Addendum to the Declarations of the Jordan Lake Business Park Association - Revised 4/7/2018



The entire wastewater treatment, collection, and disposal system are a common element of the Jordan Lake Business Park Association, (hereafter referred to as the Association) and will receive the highest priority for expenditures by the Association along with Federal, State, local taxes and Insurance. The system will be properly maintained and operated in conformity with law and the provisions of the permit for construction, operation, repair and maintenance of the system and facilities.

The wastewater disposal system will be maintained out of the common expenses. In order to assure that there shall be funds readily available to repair, maintain, or construct the disposal system beyond the routine operation and maintenance expenses, the Association shall provide that a fund be created out of the common expenses. Such fund shall be in addition to the routine maintenance fund allocated for the facility.

The Association will be responsible for all repairs, maintenance, finances and any fees associated with its use. This all encompassing responsibility will include each aspect of the system; such as all related plumbing, pump stations, treatment/storage, and including interior building items such as toilets and related signage. If any point in the system is damaged or defective it shall be repaired or replaced at the expense of the Association.

In the event that the Wastewater facility fund is not adequate for the repair or construction of the disposal system that is needed, the Association will make special assessments to cover such necessary costs.

If a wastewater collection system and /or disposal facility provided by any city, town, etc. becomes available to serve this development, the Association will take such action necessary to cause the existing and future wastewater of the development to be accepted and discharged into said governmental system. The Association shall not enter into voluntary dissolution without first having transferred its system to some person, corporation or entity acceptable to and approved by the Commission by the issuance of a permit.

With regard to the roofing system that the Association maintains, and realizing that the entire structure exists on one floor, individual unit holders will be responsible for their own roofs except to the extent that the work needed is a shared expense through shared roofing structures. In those cases individual unit holder will work together and/or with the Association to determine a fair distribution of expenses. The exception to this understanding is the roofing of the common areas, which will be maintained by the Association and expensed according to allocated interests of ownership, as in the case of the wastewater disposal system.



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

Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
Gregory J. Thorpe, Ph.D., Acting Director



August 22, 2001

NATHAN SHEAFFER  
NEON IMPRESSIONS, INCORPORATED  
1434 FARRINGTON ROAD  
SUITE 500  
APEX, NC 27502

Subject: Permit No. WQ0011777  
Neon Impressions, Incorporated  
Wastewater Treatment and Reclaimed  
Water Utilization System  
Chatham County

Dear Mr. Sheaffer:

In accordance with your application received May 24, 2001, we are forwarding herewith Permit Number. WQ0011777, dated August 22, 2001, to Neon Impressions, Incorporated for the continued operation of the subject wastewater treatment reclaimed water utilization system.

This permit shall be effective from the date of issuance until August 31, 2006, shall void Permit No. WQ0011777 issued August 5, 1996, and shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the monitoring requirements in this permit. Failure to establish an adequate system for collecting and maintaining the required operational information will result in future compliance problems.

This permit approves the continued operation of the subject wastewater treatment and spray irrigation facilities for another five-year cycle. However, please take the time to review this permit thoroughly as some of the conditions contained within may have changed since the last issuance of this permit. Of particular interest are the following permitting conditions:

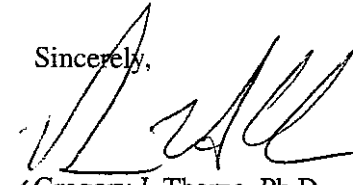
- Condition I.5. – The buffers for the spray irrigation field have changed since the original permit issuance. The original buffer distances are still the same, however, additional buffers have been added to the permit.
- Condition III.4. – The Permittee is now responsible for reporting all operation and disposal records on Form NDAR-1 and all effluent monitoring data on Form NDMR-1. Please note that these forms shall be sent to a different address than the on the original permit.
- Condition III.6. – Please note that for Non-Compliance notification, a written report must be submitted within five (5) days of first knowledge of the incident.
- Condition IV.2. – Please note that it is now required that wastewater shall not be applied if the vertical distance between the seasonal groundwater table and the application surface is less than one (1) foot.

- Condition IV.3. – This condition indicates that remediation actions shall be taken if contaminants present in the wastewater enter the groundwater table and are found at or beyond the Permittee's property boundary.

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 thirty (30) days following receipt of this permit. This request must 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, 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made this permit shall be final and binding.

If you need additional information concerning this matter, please contact Nathaniel Thornburg at (919) 733-5083 extension 533.

Sincerely,



Gregory J. Thorpe, Ph.D.

cc: Chatham County Health Department  
Raleigh Regional Office, Water Quality Section  
Raleigh Regional Office, Groundwater Section  
Bob Cheek, Groundwater Section, Central Office  
Technical Assistance and Certification Unit  
Non-Discharge Compliance/Enforcement Unit

NORTH CAROLINA  
ENVIRONMENTAL MANAGEMENT COMMISSION  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

RALEIGH

**WASTEWATER TREATMENT AND RECLAIMED WATER UTILIZATION PERMIT**

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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

**Neon Impressions, Incorporated  
Chatham County**

FOR THE

continued operation of a 1200 GPD wastewater treatment and reuse system which consists of a 2000 gallon septic tank with effluent filter, a flow director valve, a combination sand filter (730 square feet) and horizontal subsurface flow constructed wetland (998 square feet) with gravel substrate, a 546 square foot horizontal subsurface flow constructed wetland with sand substrate, two sand filters (610 square feet) within a greenhouse, a tablet chlorinator, a 300 square foot irrigation disposal area which consists of fourteen micro sprayers, 430 square feet of surface irrigation area using dripper type irrigation lines, Pump Tank 1 includes dual 40 GPM pumps and supplies the sand filter/wetland combination, Pump tank 2 includes a 40 GPM pump and supplies the sand filters in the greenhouse, Pump Tank 3 includes a 30 GPM pump and a 10 GPM pump and supplies the reuse tank, Pump Tank 4 includes a 10 GPM pump and supplies supplemental water, and a 100 gallon bladder tank to maintain pressure on the reuse water lines which supply the toilets to serve a total of sixty (60) employees at Neon Impressions, Incorporated and other tenants (located at the Old Triangle School) with no discharge of wastes to the surface waters, pursuant to the application received May 24, 2001 and in conformity with the project plan, specifications, 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 August 31, 2006, shall void Permit No. WQ0011777 issued August 5, 1996, and shall be subject to the following specified conditions and limitations:

**I. PERFORMANCE STANDARDS**

1. The reclaimed water utilization facilities shall be effectively maintained and operated at all times so that there is no discharge to the surface waters, nor any contamination of ground waters which will render them unsatisfactory for normal use. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions or failure of the irrigation area to adequately assimilate the wastewater, the Permittee shall take immediate corrective actions including those actions that may be required by the Division of Water Quality (Division), such as the construction of additional or replacement wastewater treatment and disposal facilities.



2. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.
3. The residuals generated from these treatment facilities must be disposed in accordance with General Statute 143-215.1 and in a manner approved by the Division.
4. Diversion or bypassing of the untreated wastewater from the treatment facilities is prohibited.
5. The following buffers shall be maintained:
  - a) 100 feet between wetted areas and water supply wells,
  - b) 100 feet between wetted areas and waters classified as SA,
  - c) 25 feet between wetted areas and surface waters not classified as SA,
  - d) 100 feet between wastewater treatment units and wells,
  - e) 50 feet between reclaimed water storage/irrigation ponds and property lines, and
  - f) 50 feet between wastewater treatment units and property lines.
6. Public access to the irrigation sites shall be controlled during active site use. Such controls may include the posting of signs showing the activities being conducted at each site.
7. 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. Where appropriate, such warning shall inform the public or employees to avoid contact with the water.
8. 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.
  - a. All reclaimed water piping and appurtenances shall be either colored purple (Pantone 522) and embossed or integrally stamped or marked "CAUTION: RECLAIMED WATER - DO NOT DRINK" or be installed with a purple (Pantone 522) identification tape or polyethylene vinyl wrap. The warning shall be stamped on opposite sides of the pipe and repeated every three (3) feet or less.
  - b. Identification tape shall be at least three (3) inches wide and have white or black lettering on purple (Pantone 522) 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.
  - c. All installations using reclaimed water for water closets and/or urinals shall be identified with signs and shall contain the following text: "TO CONSERVE WATER, THIS BUILDING USES RECLAIMED WATER TO FLUSH TOILETS AND URINALS. DO NOT DRINK."
  - d. Each equipment room shall be identified with the following sign: "CAUTION, RECLAIMED WATER, DO NOT DRINK. DO NOT CONNECT TO DRINKING WATER SYSTEM." The equipment room shall also be identified with the following sign: "NOTICE: CONTACT BUILDING MANAGEMENT BEFORE PERFORMING ANY WORK ON THIS WATER SYSTEM." The sign shall be visible to anyone working on or near reclaimed water equipment.
9. All reclaimed water valves and outlets shall be of a type, or secured in a manner, that permits operation by authorized personnel only.

10. Above ground hose bibs (spigots or other hand operated connections) shall not be present to the public. Hose bibs shall be located in locked, below grade vaults, which shall be clearly labeled as being of nonpotable quality. As an alternative to the use of locked, below grade vaults with standard hose bib services, hose bibs which can only be operated by a special tool may be placed in nonlockable underground service boxes clearly labeled as nonpotable water.
11. There shall be no direct cross-connections between the reclaimed water and potable water systems. An initial and subsequent annual cross-connection inspection and test shall be performed on both the potable and reclaimed water systems.
12. Where both reclaimed water and potable water are supplied to a reclaimed water use area, a reduced pressure principle backflow prevention device or an approved air gap separation shall be installed at the potable water service connection to the use area. The installation of the reduced pressure principle backflow prevention device shall allow proper testing.
13. Where potable water is used to supplement a reclaimed water system, there shall be an air gap separation, approved and regularly inspected by the potable water supplier, between the potable water and reclaimed water systems.
14. To the extent permitted by structural conditions, all reclaimed water risers within the toilet room, including appurtenances such as air/vacuum relief valves, pressure reducing valves, etc., shall be installed in the opposite end of the room containing the served fixtures from the potable water risers, or opposite walls as applicable. To the extent permitted by structural conditions, reclaimed water headers and branches off of the risers shall not be run in the same wall or ceiling cavity of the toilet room where potable water piping is run.
15. The reclaimed water system and the potable water system within the building shall be provided with the required appurtenances (valves, air/vacuum relief valves, etc.) to allow for deactivation or drainage as may be required.
16. Any other requirements of the North Carolina Plumbing Code and the Department of Insurance shall be met for the reclaimed water system.
17. The reclaimed water system shall indicate proper performance with all conditions listed in this permit prior to being brought on-line for toilet flushing.

## **II. OPERATION AND MAINTENANCE REQUIREMENTS**

1. The facilities shall be properly maintained and operated at all times.
2. Upon classification of the facility by the Certification Commission, the Permittee shall employ a certified wastewater treatment plant operator to be in responsible charge (ORC) of the wastewater treatment facilities. The operator must hold a certificate of the type and grade at least equivalent to or greater than the classification assigned to the wastewater treatment facilities by the Certification Commission. The Permittee must also employ a certified back-up operator of the appropriate type and grade to comply with the conditions of Title 15A, Chapter 8A, .0202. The ORC of the facility must visit each Class I facility at least weekly and each Class II, III, and IV facility at least daily, excluding weekends and holidays, and must properly manage and document daily operation and maintenance of the facility and must comply with all other conditions of Title 15A, Chapter 8A, .0202.
3. A suitable, year-round vegetative cover shall be maintained on the irrigation areas.

4. Spray irrigation shall not be performed during inclement weather or when the ground is in a condition that will cause runoff.
5. Adequate measures shall be taken to prevent wastewater runoff from the spray irrigation field.
6. The facilities shall be effectively maintained and operated as a non-discharge system to prevent the discharge of any wastewater resulting from the operation of this facility.
7. The daily application rate of reclaimed water on the interior and exterior planter boxes shall not exceed 1 to 3 gallons per square foot.
8. The instantaneous application rate of the spray irrigation area shall not exceed 0.12 gallons per square foot.
9. No type of wastewater other than that from Neon Impressions, Incorporated and other tenants (located at the Old Triangle School) shall be disposed onto the spray irrigation area.

### III. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring (including groundwater, surface water, soil or plant tissue analyses) deemed necessary by the Division to insure surface and ground water protection will be established and an acceptable sampling reporting schedule shall be followed.
2. As an indicator of proper operation and maintenance, the facility shall produce an effluent in compliance with the following limitations:

Parameter	Daily Maximum	Sample Type	Monitoring Frequency
Flow	1200 GPD	Recording	Continuous
BOD <sub>5</sub> (5-day, 20°C)	5.0 mg/l	2/Month	Composite
NH <sub>3</sub> as N	2.0 mg/l	2/Month	Composite
Fecal Coliform	< 2 per 100 ml	Weekly	Grab
Turbidity	2 NTU	Daily	Grab (or Continuous)
Residual Chlorine*	0.5 mg/l	Daily	Grab

\* The facility shall maintain a minimum chlorine residual of at least 0.5 mg/l in the 100 gallon bladder tank prior to the reclaimed water being reused in the restroom facilities.

If at anytime the facility can not meet the above parameters and limitations, all effluent shall be routed to the approved spray irrigation area for disposal until the treatment system can once again meet the above limits.

3. Adequate records shall be maintained by the Permittee tracking the amount of wastewater disposed. These records shall include, but are not necessarily limited to the following information:
  - a. date and time of irrigation,
  - b. volume of wastewater irrigated,
  - c. length of time zone is irrigated,
  - d. continuous weekly, monthly, and year-to-date hydraulic (inches/acre) loadings for each zone,
  - e. weather conditions, and
  - f. maintenance of cover crops.

4. Three (3) copies of all operation and disposal records (as specified in Condition III.2.) on Form NDAR-1 and three (3) copies of all effluent monitoring data (as specified in Condition III.3.) on Form NDMR-1 shall be submitted on or before the last day of the following month. All information shall be submitted to the following address:

NC Division of Water Quality  
Water Quality Section  
Non-Discharge Compliance/Enforcement Unit  
1617 Mail Service Center  
Raleigh, North Carolina 27699-1617

5. A maintenance log shall be maintained at this facility including but not limited to the following items:
  - a. Visual observations of the wastewater treatment system and disposal sites.
  - b. Record of preventative maintenance (changing of filters and filter media, alarm testing, diffuser inspections and cleanings, etc.).
  - c. Record of all residuals removed from this facility. This record shall include the name of the hauler, permit authorizing the disposal or a letter from a municipality agreeing to accept the residuals, date the residuals were hauled, and volume of residuals removed.

6. **Noncompliance Notification:**

The Permittee shall report by telephone to the Raleigh Regional Office, telephone number (919) 571-4700, 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 any of the following:

- a. Any occurrence at the wastewater treatment facility which results in the treatment of significant amounts of wastes which are abnormal in quantity or characteristic, such as the dumping of the contents of a sludge digester; the known passage of a slug of hazardous substance through the facility; or any other unusual circumstances.
- b. Any process unit failure, due to known or unknown reasons, that render the facility incapable of adequate wastewater treatment such as mechanical or electrical failures of pumps, aerators, compressors, etc.
- c. Any failure of a pumping station, sewer line, or treatment facility resulting in a by-pass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.
- d. Any time that self-monitoring information indicates that the facility has gone out of compliance with its permit limitations.

Persons reporting such occurrences by telephone shall also file a written report in letter form within five (5) 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.

#### **IV. GROUNDWATER REQUIREMENTS**

1. Any additional groundwater quality monitoring, as deemed necessary by the Division, shall be provided.

2. Waste application activities shall not occur when the vertical separation between depth of application and the water table is at less than one (1) foot. Verification of the water table elevation can be confirmed by water level readings obtained from the monitor well(s) near the site or auger boring(s), which must be done within 24 hours, prior to application of wastewater. Any open borings must be properly filled with native soil, prior to application to decrease the chance of a waste contaminating the groundwater.
3. The COMPLIANCE BOUNDARY and REVIEW BOUNDARY for the waste disposal area(s) is specified by regulations in 15A NCAC 2H, Waste Not Discharged to Surface Waters, specifically .0219 (k) (1) (C) (i) (III). The Compliance Boundary and the Review Boundary for groundwater shall be established at the property boundary. An exceedance of Groundwater Quality Standards at or beyond the Compliance Boundary is subject to immediate remediation action according to 15A NCAC 2L .0106 (d) (2).

## V. INSPECTIONS

1. Adequate inspection, maintenance, and cleaning shall be provided by the Permittee to insure proper operation of the subject facilities.
2. The Permittee or his designee shall inspect the wastewater treatment and disposal facilities to prevent malfunctions and deterioration, operator errors and discharges which may cause or lead to the release of wastes to the environment, a threat to human health, or a nuisance. The Permittee shall keep an inspection log or summary including at least the date and time of inspection, observations made, and any maintenance, repairs, or corrective actions taken by the Permittee. This log of inspections shall be maintained by the Permittee for a period of three years from the date of the inspection and shall be made available upon request to the Division or other permitting authority.
3. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site or facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be maintained under the terms and conditions of this permit, and may obtain samples of groundwater, surface water, or leachate.

## VI. GENERAL CONDITIONS

1. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.
2. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting data.
3. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.

4. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division in accordance with North Carolina General Statute 143-215.6A to 143-215.6C.
5. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.
6. A set of approved plans and specifications for the subject project must be retained by the Permittee for the life of the project.
7. The annual administering and compliance fee must be paid by the Permittee within thirty days after being billed by the Division. Failure to pay the fee accordingly may cause the Division to initiate action to revoke this permit as specified by 15 NCAC 2H .0205 (c)(4).
8. The Permittee, at least six (6) months prior to the expiration of this permit, shall request its extension. Upon receipt of the request, the Commission will review the adequacy of the facilities described therein, and if warranted, will extend the permit for such period of time and under such conditions and limitations as it may deem appropriate.

Permit issued this the 22nd day of August, 2001

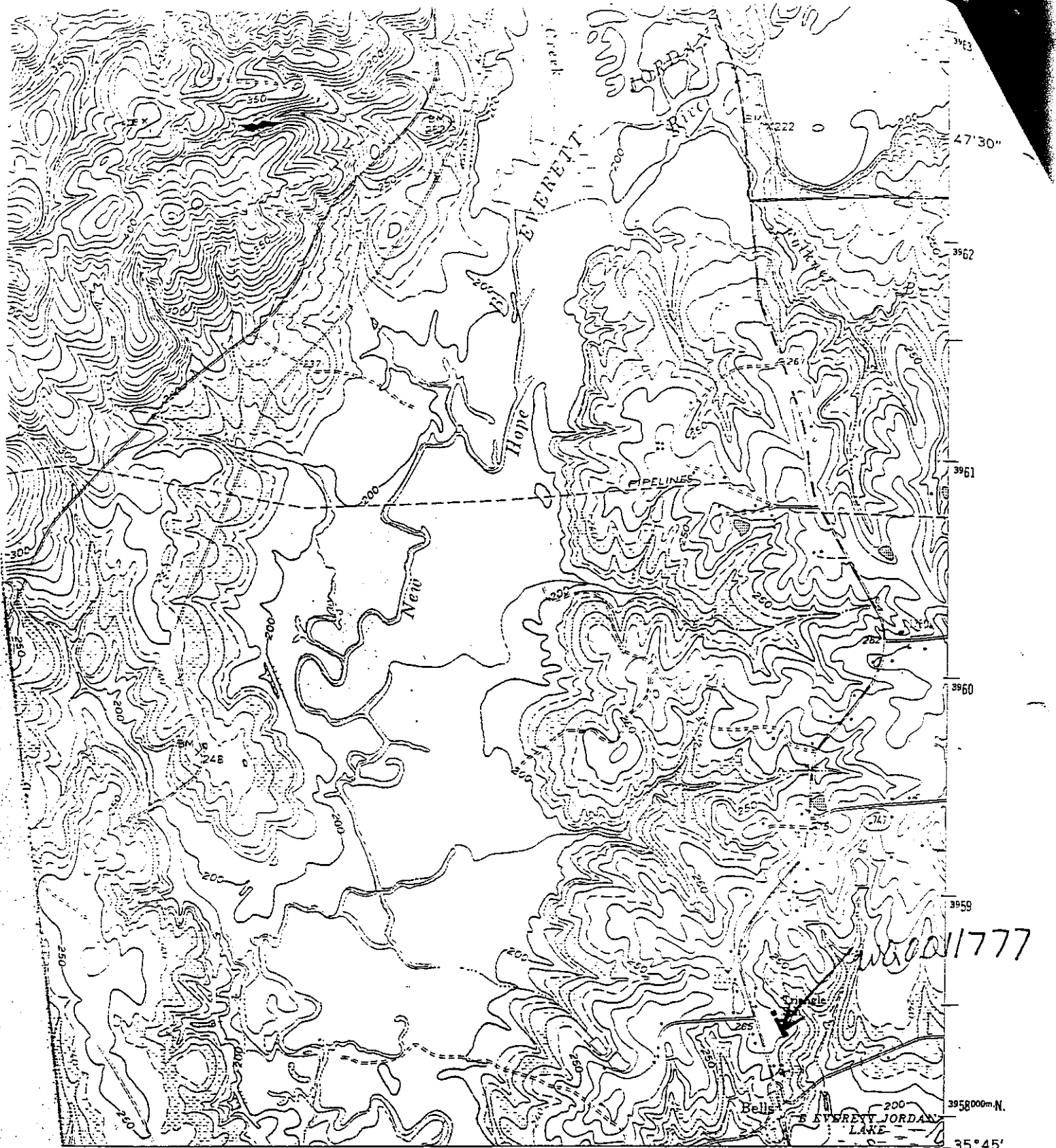
NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



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Gregory J. Thorpe, Ph.D., Acting Director  
Division of Water Quality  
By Authority of the Environmental Management Commission

**Permit Number WQ0011777**



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INTERIOR GEOLOGICAL SURVEY RESTON VIRGINIA 1982  
WILSONVILLE 1:50,000

79°00'

35°45'

3958000m.N.

1 MILE

ROAD CLASSIFICATION

- |                                    |       |  |           |
|------------------------------------|-------|--|-----------|
| Primary highway,<br>hard surface   | ————— | Light-duty road, hard or<br>improved surface | —————     |
| Secondary highway,<br>hard surface | ————— | Unimproved road                              | - - - - - |
| Interstate Route                   | ————— | U. S. Route                                  | —————     |
|                                    |       | State Route                                  | —————     |



FARRINGTON, N. C.  
N3545—W7900/7.5

(NEW HILL)  
6255 (1) NW