



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Clark B. Freise, Assistant Commissioner



March 31, 2017

Mr. Scott Mitchell
Three Socios, LLC
321D Lafayette Road
Hampton, NH 03842
E-mail: scott@tropicstardevelopment.com

Via E-mail

FINAL APPROVAL PUBLIC WATER SYSTEM

Re: DR 999864 – Transient, Non-Community Water System
Tropic Star Convenience AKA “Barrington Town Center”
Route 125 – Calef Highway, Barrington, New Hampshire (Tax Map 238, Lots 4 and 14)

Dear Mr. Mitchell:

The New Hampshire Department of Environmental Services, Drinking Water and Groundwater Bureau (NHDES) hereby grants Final Approval for the above referenced project’s public water system. This approval allows for the construction, expansion, or modification of the new or existing water system subject to compliance with Env-Dw 406, *Design Standards for Non-Community Water Systems*.

This approval is based on submittals received from Mr. Charlie Lanza of Hampstead Area Water Services Company on March 10, 2017, and March 29, 2017, which identifies the following:

- Well location/description: Bedrock Well 1, 605 feet south-southeast of the proposed convenience store and Bedrock Well 2, 625 feet southeast of the proposed convenience store building.
- The purpose of the water system is to serve:
 - a new 5,000 square foot convenience store/gas station/food service outlet
 - the existing Journey Church located on Barrington Map 235, Lot 83 (current PWS0156010)
 - the existing Millo’s Pizza and Grill (current PWS0158200).
- The water system is described as a transient non-community (**TNC**) water system
- The approved **design flow is 5,065 gpd** (16 equivalent units) divided according to.
 - Tropic Star Convenience Store – 1,290 gallons per day
 - Millo’s Pizza and Grill – 1,800 gallons per day
 - Journey Church – 1,975 gallons per day.
- The SPA has a radius of **150 feet** from the wellhead.
- Site Plans: Proposed Pumping and Treatment Station, Tropic Star Convenience, as prepared by Hampstead Area Water Services, Co. of Atkinson, NH, dated March 2017
- Well Completion report dated: March 8, 2017, for well ID 2017011 and 2017012, prepared by Faxon Well Company.
- Water Quality analysis: Nelson Analytical, ID 3703-00087, sampled March 1, 2017 (Well No.

- 1) and ID 3703-00088, sampled March 1, 2017 (Well No.2)
 - All primary contaminants for this system classification met the Safe Drinking Water Act standards therefore no treatment is currently required.
- Although not regulated for this type of water system, DES recommends treatment or blending to address the following contaminants:
 - Well No. 1
 - Arsenic, 11 parts per billion (ppb)
 - Iron, 447 ppb
 - Well No. 2
 - Arsenic, 19 ppb
- Proposed water treatment is approved for:
 - Iron and Arsenic by means oxidation/filtration

In accordance with Env-Dw 406, *Design Standards for Non-Community Water Systems*, the following shall be submitted or confirmed as conditions of the final approval for the water system:

1. **Upon completion of the project and prior to opening to the public**, the owner shall contact surveyor Mary Clairmont at (603) 271-6603 or mary.clairmont@des.nh.gov for a water system inspection.
2. **Please provide evidence that the proposed backwash discharge from the MTM treatment unit has been registered with NHDES (Mitch Locker) prior scheduling the inspection referenced above.**
3. The NHDES letter dated December 10, 2013, whereby a waiver was granted of the requirement to establish the SPA entirely on property owned by the water system is affirmed provided the following uses do not occur within the SPA:
 - a. Wastewater disposal systems, including septic tanks, grease traps, and effluent disposal areas;
 - b. Soil fertilization areas;
 - c. Nitrate Set-back areas;
 - d. Placement of Dumpsters;
 - e. Construction of detention ponds or infiltration basins
 - f. Installation of storage tank for oil, gasoline, propane or natural gas, or other hazardous chemicals; and
 - g. Any uses associated with hazardous materials.
4. Note: this system is approved as a transient non-community (TNC) water system based on the current status that the total number of employees at the three approved system connections do not exceed 25. If any or all of the connected businesses grow to the point where the total number of employees exceed 25 persons, then the system must be reclassified as a Non-Transient, Non-community (NTNC) water system. You shall notify NHDES if and when this occurs.
5. The well casing shall project at least one foot above finished grade.
6. The water system shall have a discrete source sampling tap for each individual RAW well source
7. All non-potable/fire suppression (or other) water lines shall be labeled permanently, visibly, and clearly as **NON-POTABLE**.
8. Once the subject water system is on-line and operating, PWS 0156010 (Millo's Pizza) and PWS 0158200 (Journey Church) shall be deactivated. At a minimum, this shall be accomplished by cutting out and sealing a minimum of a 12-inch section of the supply pipe between the existing water source and the point of entry in the building for each current water system. If neither existing well will be used for

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non-potable purposes then each well shall be abandoned in accordance with We 604. The deactivation of each existing PWS shall be reported to NHDES within 48-hours of it physically occurring.

9. Water system sampling shall be performed per the Master Sampling Schedule. The Master Sampling Schedule and the sampling results are available at: <http://www2.des.state.nh.us/DESOnestop>. **Note that quarterly VOC sampling is required for the first 4 quarters that the new wells are in use** because petroleum storage tanks are located nearby. This will provide a baseline for background levels of these contaminants while the water is being pumped.
10. The system construction shall meet Env-Dw 406.26. *System Construction*.
11. The water usage at this public water system shall not exceed the approved capacity of each subsurface disposal system. If an increase in discharge or change in approved use of any of the connected uses is planned, please submit an amended plan the DES Subsurface Systems Bureau for review and approval.
12. NHDES shall be notified of any additional proposed connections to the water system for data management purposes.
13. This approval does not relieve the applicant from the obligation to obtain other local, state or federal permits that may be required.
14. NHDES shall review and approve any proposed changes or additions to the water system treatment process(es).

Please feel free to contact me at Thomas.willis@des.nh.gov or (603) 271-2953 with any questions on this approval.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas H. Willis, Jr.', is written over a yellow rectangular background.

Thomas H. Willis, Jr., PE
Drinking Water and Groundwater Bureau
Small Systems Engineering & Design Review

cc: George Tsoukalas, Nello's Pizza and Grill, LLC

ec: Charlie Lanza – Hampstead Area Water Services Company – charlie@hampsteadwater.com
Barry Gier – Jones and Beach, Inc. – bgier@jonesandbeach.com
Lisa Ball – Journey Church – lisab@thejourneynh.com
Marcia Gasses – Town of Barrington – barrplan@metrocast.net
Mary Clairmont, Dawn Buker - NHDES