



The
NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
hereby issues

LARGE GROUNDWATER WITHDRAWAL PERMIT

NO. LGWP-2009-0002A

to the permittee

HAMPSTEAD AREA WATER COMPANY
54 SAWYER AVENUE
ATKINSON, NH 03811
(603-362-4299)

for the withdrawal of the following volumes of groundwater from the following wells for the purpose of community water supply:

Settlers Ridge Well Field

HWC-SR3 136,800 gallons over any 24-hour period

HWC-SR4 154,080 gallons over any 24-hour
period from November 1st through April 30th

79,200 gallons over any 24-hour
period from May 1st through October 31st

Date of Issuance: February 7, 2020
Date of Expiration: December 18, 2029

Pursuant to authority in N.H. RSA 485-C:21, the New Hampshire Department of Environmental Services (NHDES), hereby grants this permit to withdraw groundwater from wells HWC-SR3, and HWC-SR4 subject to the following conditions:

1. The permittee shall comply with the requirements of Env-Wq 403 and RSA 485-C at all times.
2. Water Conservation: The permittee shall implement the approved Water Conservation Plan, dated May 8, 2008, in accordance with Env-Wq 2101 and NHDES' approval dated June 5, 2008.
3. Metering Requirements: Withdrawals from all sources must be metered at all times. All meters must be selected, installed, tested, and maintained in accordance with the AWWA M6 manual as referenced in Env-Wq 2101. The permittee shall read source water meters to adequately report the following volumes to the reporting program referenced in condition No. 6 of this permit:
 - a) The 24-hour peak day volume withdrawn from each source during each month and the date the water use occurred; and
 - b) The cumulative total volume withdrawn from each source during each month.
4. Monitoring and Reporting Requirements: The permittee shall establish and maintain the monitoring and reporting program as described below:
 - a) Groundwater Level Monitoring
 - i. Off-site Private Bedrock Well: The permittee shall install a pressure transducer and data logger and measure water levels at a frequency of at least once every four hours in the private bedrock well serving the following property. Water level monitoring shall continue indefinitely as a condition of this permit.

Property Identification Number	Property Address
20090002DW01 00000	[REDACTED]

- ii. Off-site Public Water Supply Well: The permittee shall install a pressure transducer and data logger and measure water levels at a frequency of at least once every four hours in the following public water supply well. Water level monitoring shall continue indefinitely as a condition of this permit.

Water System Name	Source
Commons of Atkinson (PWS ID 0112060)	20090002PWS01

- iii. On-site Production Wells: The permittee shall install pressure transducers and data loggers and measure water levels at a frequency of at least once every four hours in HWC-SR3 and HWC-SR4 and shall continue indefinitely as a condition of this permit. 20090002PWSR3 20090002PWSR4

Wells that supply drinking water shall be sampled for coliform bacteria [in accordance with Env-Wq 403.14(e)(5) and Env-Wq 403.14(g)] prior to and after the installation of any monitoring equipment.

If a well owner denies permission to monitor water levels or if the identified well cannot be monitored due to a structural limitation, then the permittee shall propose an alternative monitoring location to NHDES for approval. Upon

receiving approval from NHDES, the permittee shall install the monitoring well, if a suitable alternative well is not already available, and monitor water levels at the alternative location at the same frequency required at the original monitoring well.

- b) Wetlands Monitoring: The permittee shall implement the wetlands monitoring program as described below:
 - i. Wetland monitoring shall include an assessment of wetland functions and values in the established monitoring plots HWC-WT Plot 1, HWC-WT Plot 2, and HWC-WT Plot 3.
 - ii. One survey of the three wetland plots shall be completed every two years between August 1 and August 30, starting in 2021.

The wetlands monitoring program shall continue indefinitely as a condition of this permit. All work shall be conducted under the direct oversight of a New Hampshire Certified Wetland Scientist. Results of the wetlands monitoring and surveys must provide a determination as to whether or not an adverse impact has occurred, may occur, or has not occurred over the monitoring period.

- c) All monitoring shall be completed by a person who can demonstrate, by education or experience, competency in collecting and reporting hydrogeologic measurements.

Monitoring locations and frequencies may be added or changed if the data obtained contradict the information provided in the permittee's application, or if additional data points are required to assess the potential for adverse impacts to occur.

An annual monitoring report (including the wetlands function and values assessment, when applicable) and all monitoring data shall be submitted to NHDES annually by January 31 of each year. The annual monitoring report shall note any relevant observations that may affect the measurements and include all field notes documenting the monitoring activities for the preceding year.

The annual monitoring report and groundwater level data collected under condition 4a shall be submitted in an electronic format only.

5. Mitigation Requirements

- a) In the event that an adverse impact occurs, the permittee shall comply with all of the requirements below and with the impact mitigation and source replacement requirements of Env-Wq 403.
- b) The permittee shall be capable of providing emergency water pump and well services, including the drilling of new wells, for the term of this permit, so that in the event of an adverse impact to a public or private well, mitigation steps can be undertaken expeditiously.
- c) Where the status of an unanticipated impact is not clear, the permittee shall gather information needed to quantify the impact and determine its status relative to the adverse impact criteria defined under RSA 485-C:21 V-c and provide this

information to NHDES within 48 hours of being notified by NHDES. A verified adverse impact shall be mitigated in accordance with Env-Wq 403.

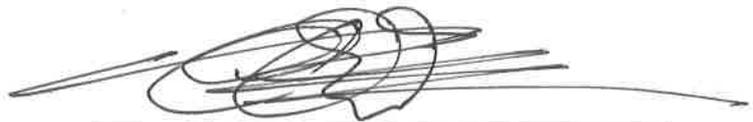
- d) NHDES will routinely review the results of all monitoring data, and if water level monitoring data indicate that groundwater is being extracted at a rate that exceeds natural recharge on average, then NHDES will modify the permit in accordance with Env-Wq 403 in order to prevent adverse impacts from occurring. In addition, the permittee shall operate HWC-SR4 in accordance with the management procedures described below.

MANAGEMENT PROCEDURES

As part of these management procedures, the permittee shall obtain and review the water level monitoring data collected in HWC-SR4 and Well #1 serving the Commons of Atkinson public water system per condition No. 4a of this permit at least quarterly (January, April, July, October). In the event that the water level measurements indicate that production from HWC-SR4 is adversely impacting the Commons of Atkinson public water supply well and the adverse impacts will continue, the withdrawal from HWC-SR4 shall be reduced to 56,160 gallons over any 24-hour period until an NHDES-approved impact mitigation program is implemented.

6. The permittee shall continue to comply with the water use reporting requirements established by RSA 488, Env-Wq 2102 and this permit with the NHDES Water Use Registration and Reporting Program.
7. The permittee shall apply for renewal of this permit within 6 months of its expiration date in accordance with Env-Wq 403. The permittee shall continue to comply with all conditions in this permit until the permit is renewed or the facility is closed in accordance with all applicable requirements, regardless of whether a renewal application is filed.

Any person aggrieved by any terms or conditions of this permit may appeal in accordance with RSA 21-O:7, IV within 30 days.



Thomas E. O'Donovan, P.E.
Director Water Division