



The
NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES

hereby issues

LARGE GROUNDWATER WITHDRAWAL PERMIT

NO. LGWP-2008-0001A

to the permittee

ROCHESTER DEPARTMENT OF PUBLIC WORKS
45 OLD DOVER ROAD
ROCHESTER, NH 03867
(603-332-4096)

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

Well RCH-1C: 1,008,000 gallons over any 24-hour period.

Date of Issuance: February 23, 2018
Date of Expiration: February 23, 2028

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 Well RCH-1C 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. Metering Requirements: Withdrawals from the well must be metered at all times. All meters must be selected, installed, tested, and maintained in accordance with AWWA standards. The permittee shall read the source water meter to adequately report the following volumes to the reporting program referenced in condition No. 5 of this permit:
 - a) The 24-hour peak day volume withdrawn from the source during each month and the date the water use occurred; and
 - b) The cumulative total volume withdrawn from the source during each month.
3. Monitoring and Reporting Requirements: The permittee shall establish and maintain the monitoring and reporting program as described below:
 - a) Protecting Low Flows in the Cocheco River: The permittee shall implement a low-flow pumping restriction program to protect low flows in the Cocheco River whereby withdrawals from RCH-1C are limited to times when flow in the Cocheco River exceeds a minimum flow threshold of 23 cubic feet per second (cfs) measured at U.S. Geological Survey (USGS) Stream Gage. No. 01072800 (Cocheco River Near Rochester, NH). The low-flow pumping restriction program shall be as described below.

Stream flow shall be monitored on a daily basis using stream flow measurements reported by the above-referenced USGS stream gaging station. RCH-1C shall not be operated when the reported stream flow is equal to or less than the minimum flow threshold of 23 cfs. If the well is shutdown as a result of the minimum flow threshold being met, the operation of RCH-1C shall resume when the reported stream flow is at least 25 cfs, i.e. the minimum flow threshold of 23 cfs plus the production rate of the well (~1.6 cfs). Stream flow monitoring shall continue indefinitely as a condition of this permit when RCH-1C is in use.

If stream flow measurements cannot be acquired from the above-referenced USGS stream gaging station, then the permittee shall propose an alternative stream flow monitoring location and method to NHDES for approval. Upon receiving approval from NHDES, the permittee shall install the monitoring station, if not already available and after acquiring all other necessary permits, and monitor stream flow at the alternative location at the same frequency as at the USGS stream gaging station originally proposed.

The permittee shall maintain records of the operation schedules of RCH-1C indicating when the well is shut down due to the minimum flow threshold being met, and when operation of the well is resumed. The permittee shall submit this information to NHDES in the annual monitoring report.

- b) Wetland Monitoring: The permittee shall continue to implement the wetland monitoring program as described in the report titled "Proposed Wetland Monitoring Program, Public Water Supply Project, Production Well RCH-1C, Rochester, NH" prepared for EGGI by NHSC, Inc., dated January 2008. Monitoring shall occur at the proposed on-site wetland monitoring station in the wetland east of RCH-1C and the proposed control site located south of the Cocheco River outside the zone of contribution of RCH-1C. The wetland 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. The tri-annual wetland surveys must provide a clear determination as to whether or not an adverse impact has occurred, may occur, or has not occurred over the monitoring period.

All monitoring data 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 and all monitoring data shall be submitted to NHDES by January 31 of each year. The annual monitoring report shall provide text, tables and figures that present a summary of all previously collected data and note any relevant observations that may affect the measurements made from the preceding year inclusive of pertinent field notes or observations that document the annual monitoring activities undertaken to comply with this permit. The results of the tri-annual wetland surveys and associated impact assessment shall be included in the annual monitoring report unless requested sooner by NHDES.

The annual monitoring report shall be submitted in an electronic format and hard copy format. All water level and water quality monitoring data collected as a condition of this permit shall be submitted in an electronic format only.

4. Mitigation Requirements: In the event that an adverse impact occurs, the permittee shall comply with the impact mitigation and source replacement requirements of Env-Wq 403. 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.
5. The permittee shall maintain the water use reporting requirements established by RSA 488, Env-Wq 2102 and this permit.
6. The permittee shall apply for renewal of this permit within 180 days 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.



Eugene J. Forbes, P.E.,
Director Water Division

