



The Commonwealth of Massachusetts
Department of Environmental Quality Engineering
Metropolitan Boston - Northeast Region
5 Commonwealth Avenue
Woburn, Massachusetts 01801

S. RUSSELL SYLVA
Commissioner
935-2160

JUL 13 1987

October 16, 1986

HARRY G. HILL
INSPECTOR OF BUILDINGS
ZONING ENFORCEMENT OFFICER
TOWN OF SHERBORN

Dr. David Sortor
33 Old Orchard Road
Sherborn, MA 01770

RE: Sherborn - Public Water Supply
(NON COMMUNITY) - Pump Test,
Rock Well # 5, Sherborn Inn

Dear Sir:

The Department of Environmental Quality Engineering, in response to requests contained in correspondence to this office dated August 14, 1986, and August 29, 1986 from your consulting hydrogeologists IEP Inc. has reviewed a report and associated plans for the referenced project.

The report is titled:

REPORT ON PROLONGED PUMPING TEST
ROCK WELL # 5
33 N. MAIN STREET
SHERBORN, MASSACHUSETTS

Date: August, 1986

According to the report an 8 inch diameter rock well was drilled to a depth of 272 feet on your land adjacent to the Sherborn Inn in late December, 1985 with the intention of supplying water to a 130 seat restaurant. Bedrock was reached at a 20 foot depth and forty feet of casing was grouted. The 20 feet of overburden consists of 16 feet of sands and gravels and, immediately over the bedrock, 4 feet of dense clayey basal till.

The pumping test began on January 13, 1986 and ended on January 16, 1986 which amounted to a total duration of 74 hours. Initial pumping rate was 15 gallons per minute but this was reduced after about 30 hours to 11.7 gallons per minute in order to achieve stabilization of drawdown of groundwater levels. Drawdown did stabilize during the final 24 hours of the pumping test. Ground water levels in the well recovered to static levels within 24 hours of pump shutdown.

Your consultants estimate the safe yield of the well to be in excess of 11.7 gallons per minute which would be far greater than the expected need of 3.6 gallons per minute. Water quality is good.

The Department hereby approves use of this well as a public water supply source (non-community) subject to the following conditions:

- 1) All regulations pertaining to non-community public water systems must be complied with eg sampling, reporting, operations etc.

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- 2) An operator, certified in an appropriate grade, must be employed to oversee operation of the water system.
- 3) The sanitary integrity of the area within 100 feet of the well must be maintained.

If this office can be of any assistance in these matters, please contact Chester Masel at your convenience.

Very truly yours,

Paul R. Anderson

Sabin M. Lord, Jr.
Deputy Regional
Environmental Engineer

EPK

SML/CM/se

cc:

Board of Health
Town Hall
Sherborn, MA

IEP
6 Maple Street
P.O. Box 780
Northboro, MA 01532

DEQE
One Winter Street
Boston, MA 02108

Attn: Division of Water Supply