

Central Michigan District Health Department

People Caring For People

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November 17, 2000

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Roscommon County 1015 Shan Drive P.O. Box 739 Procomillo, MI 42261 617-366-9186 FAX 517-366-8021 Malcolm Pirrie Engineers 1500 Abbott Road East Lansing, MI 48823

Attn: Shane McDonald

Re: Pennit to Install Water Supply Facilities

Wssn: 20166-67

Dear Mr. McDonald:

Enclosed is the approved well permit application for construction of a new Type II-A well for Great Spring Waters of America located at 100th Avenue. Osceola ML Please note the conditions of this permit are as follows:

-ISOLATION

Standard -

The well is to be located a minimum of 200' feet from all potential sources of contamination such as: septic fields, septic tanks, dry wells, buried sower lines, surface water (lakes, streams, etc.), storm sewer lines, catch basins or animal pastures.

Major -

The well is to be located a minimum of 2000' from all major source of contamination. Such sources include, but are not limited to chemical storage, fuel storage tanks, brine or injection wells, contamination plumes and land application of sewage or sewage lagoons.

-DEVIATIONS

None

-GROUTING

The well must be grouted using neat cement and methods approved by the department. The grouting addendum enclosed with the permit addresses proper grouting requirements. The health department will need to be notified 24 hours BEFORE grouting takes place.

-CAPACITY

The well must have a minimum capacity of approximately 20.000 gallons a day.

-PLASTIC PIPE USE

If plastic pipe is used between the well and the pressure tank or buildings, it must be National Sanitation Foundation approved for potable water (NSF-pw) and must have a minimum 160 psi rating or approved by American Waterworks Association.

-WELL ABANDONMENT

None

-WELL RECORD

The well drilling contractor is to submit a copy of the well record (well log) upon completion of the well. The copy should be sent directly to Central Michigan District Health Department, Isabelia County Branch Office, for use at the final inspection.

-DISINFECTION AND SAMPLING

We have found that the most effective way to initially disinfect new wells is to use the displacement method. Place heavily chlorinated water into the well to displace at least two times the casing volume; pump into the distribution system; allow 24 hours contact time; and then pump to waste.

A useable sample tap must be located near the pressure tank or as close to the well as possible. The sample tap should have a 1/4 inch, downward turned, unthreaded outlet and be operated by a ball valve or a good quality gate valve.

After disinfection and pumping to waste, the health department must be contacted for final inspection. The collection of the first bacteriologic sample must be conducted by the health department. A MINIMUM OF TWO CONSECUTIVE ACCEPTABLE BACTERIOLOGICAL SAMPLES (collected at least 8 hours apart, with no chlorine residual) and one acceptable Nitrate/Nitrite sample MUST BE OBTAINED PRIOR TO USE OF THE WELL BY THE PUBLIC. If coliform bacteria are detected, repeat disinfection and sampling are required. Phase II-V samples are also required before finalizing the well and are listed below:

Analyte	Unit Number	Test Code
	(if using State lab)	(if using State lab)
General Metals	36ME	CMET2
Cyanide	36CN	CCN
VOC (volatile organic compound	s) 36VO	CXVO
SOC (synthetic organic chem)	36NV	CXPT
SOC (synthetic organic chem)	36NV	CXHB
SOC (synthetic organic chem)	36LP	CXLP

Additional stipulations may be required by Rich Overmyer R.S., from the Department of Environmental Quality.

Also enclosed, you will find the Nontransient Noncommunity Water Supply Capacity Development Application. The application will need to be filled out and mailed back to our Mt. Pleasant office before the well can be finaled.

If there are any questions regarding what is required, or if changes to the permit or procedures are proposed please contact Mike Kowaleski at the Isabella County Branch Office at 517-773-5921 ext. 158.

Sincerely,

Mike Kowaleski, R.S.

Environmental Health Division
Type II Program Coordinator

MK/sw enc.

cc:

Rodney Allen, Natural Resource Mg Midwest
Perrier Group of America, 1119 S. Third St., St. Charles, IL., 60174
Rich Overmyer, RS, Chief Noncommunity Unit, DEQ
Cynthia Weaver, DEQ, DWRPD