

BERWICK TOWNSHIP ORDINANCE NO. 96 - 35

AN ORDINANCE PROVIDING FOR THE' REGISTRATION, REGULATION AND CONTROL OF ALL WELLS, WHICH MAY BE CONSTRUCTED FOR OBTAINING WATER FOR DOMESTIC PURPOSES.

BE IT ENACTED AND ORDAINED, by the Board of Supervisors of Berwick Township, Adams County, Pennsylvania, and it is hereby enacted and ordained by authority of the same as follows:

Section 1. This Ordinance shall be known as the "Well Ordinance."

Section 2. The intention of this ordinance is to ensure and protect the quality and suitability of domestic water supply, and to secure and maintain the minimum required isolation distances between water supplies and sewage disposal systems or other sources of contamination.

Section 3. (a) This Ordinance shall apply to all new wells, wells which have not been completed, or which are not in operation or in an inoperable condition at the time of passage of this Ordinance.

(b) This ordinance shall be implemented by the Berwick Township Supervisors. Issuance of Permits, Inspections, and Review of applications shall be done by the Township ,Representative.

(c) This Ordinance shall further apply to the reconstruction, major repair and other changes to existing wells, when, in the opinion of the Board's Representative, such reconstruction, major repair and other changes may affect the quality and suitability of the water supply on the property upon which the well is constructed or on surrounding properties.

Section 4. The following standards shall apply for water supplies.

(i) Drilled and Driven Wells:

Location. Drilled and driven wells shall be located at a point free from flooding and at the following minimum distances to existing or possible future sources of pollution.

Source of Pollution	Minimum Distance
Storm Drains	25 feet
Drains carrying domestic sewage or industrial wastes	50 feet
Septic or Holding Tanks	50 feet
Surface/subsurface sewage disposal fields	100 feet
Sewage seepage pits, cesspools	100 feet
Privies	50 feet
Fuel Tanks	As approved
Other (ditches, streams, barnyards, rainwater pits, etc.)	As approved
Additional Location Restrictions	
Driveways	10 feet
Principal structure/dwelling	20 feet
Property Lines *	10 feet

* Burden of proving location of property line shall fall on property owner. If necessary a survey shall be performed.

(ii) Construction:

a. Source. The source of supply shall be from a water bearing formation drawn not less than one hundred (100) feet from the ground surface, with at least twenty (20) feet of properly grouted well casing, and from no formation which is subject to pollution.

b. Casing. The **well shall have a water-tight and durable wrought iron, steel, or other type of approved casing with a nominal thickness of 3/16 (.1875) inches and six and five-eighths (6-5/8) inches**, outside diameter. The sections shall be joined together by threaded couplings, joints, by welding or any other water-tight approved joint or coupling. A casing shall be carried to a minimum depth of twenty (20) feet from the finished grade and in any case shall be extended ten (10) feet into bedrock or other impervious strata. Driven wells shall be provided with a drive shoe or other effective casing seal.

An annular space shall be provided between the well casing and the earth formation of a radius at least one and one-half (1-1/2) inches greater than the casing radius, excluding coupling for internal pressure grouting, or one and one half (1-1/2) inches greater than the casing radius, excluding coupling for external grouting. The annular space shall be completely filled with impervious cement grout or equivalent sealing material from bottom of the casing to within five (5) feet of the ground surface. External grouting shall be accomplished utilizing a tremie pipe and grout pump to force out any standing water on the outside of the well casing.

The casing shall be sealed effectively against entrance of water from water bearing formations, which are subject to pollution, through which the casing may pass. If casings of smaller diameter are used in the lower portions of the well, effective water-tight seals shall be provided between the casings where they telescope. In such instances, sections of casing shall telescope for a minimum distance of four (4) feet.

The top of the well casing shall extend a minimum of twelve inches above the finished grade of the lot so that contaminated water or other substances cannot enter the well through the annular opening at the top of the well casing, wall or pipe sleeve.

c. Well Covers. Every water well shall be equipped with an overlapping cover at the top of the well casing or pipe sleeve. Covers shall extend downward at least two (2) inches over the outside of the well casing or wall. All well caps shall indicate well driller's name, depth of well and depth of casing.

Where pump sections or discharge pipes enter or leave a well through the side of the casing, the circle of contact shall be water-tight. The use of plastic/nylon adapters for this purposes is not acceptable. A brass pitless adapter with brass connectors or equivalent are required.

Any restoration/repair of wells with casing terminating below grade shall be raised above grade to twelve (12) inches minimum.

Electrical wiring for well pumps shall be encased in conduit from the bottom of the water supply line trench to the well cap.

d. Drainage. All water wells and springs shall be constructed so that surface drainage will be diverted away from the well or spring.

e. Pumping Equipment. All pumps installed in wells drilled to a depth greater than three hundred (300) feet, but not to exceed four hundred and fifty (450) feet shall be installed with 200 pound per square inch plastic pipe. Well depths exceeding four hundred and fifty (450) feet shall have pumps installed with SCHEDULE 80 PVC threaded pipe or galvanized steel pipe to support the increased pumping pressure required for deeper wells. The minimum acceptable pressure rating of plastic pipe is 160 pounds per square inch, regardless of water supply depth.

f. Pump Enclosure. Any pump room or any enclosure around a well pump shall be drained and protected from freezing by heating or other approved means. Where pumps are installed in basements, they shall be mounted on a block or shelf not less than eighteen (18) inches above the basement floor. Well pits shall be prohibited.

(iii) Flow Requirements

This Ordinance places no restrictions on "quantity" of water. The acceptability of water quantity is the sole responsibility of the property owner.

(iv) Well Certification:

(1) Drillers Report. A report for each well shall be prepared by the driller and shall be submitted to the Township Representative for evaluation and approval. The well report shall contain the following pertinent information:

Owner of property	Address & Lot Number
Date of Completion	Depth of Casing
Depth of Well	Static Water Level
Well Driller	Yield in Gals/Min.
Type & Size of Casing	Grouting Certificate
Type of Test Pump used	Pump Output-Gals/Min

(2) Water Quality. Subsequent to house construction, but prior to or concurrent with the "Request for Occupancy" the owner/contractor shall initiate appropriate action to have the on-site water supply tested by a certified laboratory, then provide to the Township Representative a laboratory report containing the following information:

Total Coliform	Fecal Coliform
Iron	Nitrates
Hardness: equivalent calcium carbonates	

(v) Dug Wells:

No new dug wells will be permitted in Berwick Township due to the great danger of pollution and unreliability of water supply.

(vi) Springs:

This section of the Ordinance is to be used for the reconstruction of existing springs only. Before rehabilitation shall begin on an existing spring, a report shall be made to determine the advisability of said reconstruction, which shall include as a minimum, quality and quantity of water. Springs for new construction are not considered an adequate water supply and will not be considered as valid for the issuance of a building permit. Reconstructed springs shall be completely enclosed by walls and a cover of reinforced concrete or equally durable water-tight material. The cover shall have a firm foundation so as to effectively prevent settling. The uphill wall shall be so constructed as to prevent entrance of surface water.

Where manhole covers are used, the manhole shall be at least twenty-four (24) inches in diameter. It shall extend at least six (6) inches above the surrounding ground surface and be covered by an impervious durable cover of concrete, steel or equivalent material which overlaps the manhole vertically by at least two (2) inches. The manhole cover shall be effectively secured to the manhole by bolting, locking or equivalent means, and shall be kept so secured. The top of the manhole cover shall be labelled "water supply".

(vii) Abandoned Water Supplies: Wells, springs, cisterns and water storage tanks, which are no longer in use shall be removed, filled or otherwise maintained in a condition such as to prevent access by unauthorized persons or animals to prevent accidental injury, and to effectively prevent pollution of ground water. Abandoned wells shall be completely filled with cement or equal impervious material.

Wells and springs shall not be used for the disposal of liquid, gaseous and/or solid wastes.

(vii) Water Service: Size of Water Service Pipe - The minimum diameter of water service pipe shall be 3/4 inch.

Separation of water Service and Building Sewer/Drain Water service pipe shall be installed a minimum of twelve (12) inches above sewer drains. See Section P-1502.2 in BOCA Plumbing Code for specific requirements.

Section 5. (a) No construction, drilling, digging, reconstruction, major repair or other change of or for any well/water supply for the production of water for domestic purposes shall commence unless the property owner, or his/her duly authorized agent, shall apply for and receive a permit from Berwick Township.

(b) Application for a well permit shall be made upon a form supplied by Berwick Township and shall be submitted to the Board's Representative for review and approval.

(c) The application shall set forth the following:

- a. Name(s) of property owner(s)
- b. Address of location of property
- c. Scale/sketch of premises showing proposed location of wells, buildings, boundary lines, and septic tank(s), absorption area(s), drain field(s). (On surrounding properties, if less than 200' from proposed well).
- d. Name and license number of well driller

Section 6. Upon receipt of an application for a well permit the Township, through the Board's Representative, shall within seven (7) days perform an inspection of the premises on which the well is to be constructed. The inspection shall be conducted in accordance with the provisions of this Ordinance and other applicable Township Ordinances.

Upon completion of the inspection, The Board's Representative shall either (a) issue a permit to the applicant indicating the proposed location for the well shown on the sketch is acceptable and meets requirements of the Ordinance and special instructions for construction, if any. (b) refuse to issue the permit, and, in such event, shall provide the applicant with written reasons for such refusal.

Section 7. All permits shall be issued on a form provided by Berwick Township, which shall be executed by the Board's Representative. All permits shall be issued to the property owners or their duly authorized representative.

Section 8. Upon completion of construction of the well and related facilities, the Board's Representative shall perform a final inspection of the well/water supply to determine whether there has been compliance with the permit issued. Upon completion of the inspection, the Board's Representative shall (a) issue an "APPROVAL OF OPERATION" upon the original permit, or (b) deny such approval due to non-compliance with the permit issued, in which event, written reasons for such denial shall be noted on the original permit.

AN APPLICATION FOR A BUILDING PERMIT "WILL NOT" BE ACCEPTED AND/OR APPROVED IN THE ABSENCE OF AN "APPROVAL OF OPERATION" ISSUED UNDER THE TERMS AND CONDITIONS OF THIS ORDINANCE.

Section 9. All applications for a well permit shall be accompanied by a fee payable to Berwick Township in accordance with a schedule of fees established/revised from time to time by the Berwick Township Board of Supervisors.

Section 10. (a) All permits shall be in effect as of the date of issuance, and shall remain in effect for a period of six (6) months. In the event that water supply construction under the permit has not been completed at the expiration of six (6) months from the date of issuance, the permit shall expire and the validity of the permit shall cease and terminate.

(b) A request for an extension to a permit must be submitted to the Township in writing, ten (10) days prior to the expiration date of the permit. Extensions are limited to thirty (30) days. Subsequent requests must be accompanied by an application for a new permit with appropriate fee.

(c) In the event a permit expires and construction has not begun, an application for a new permit must be submitted with appropriate fee.

(d) Expiration of a permit during construction will result in the landowner being prosecuted in accordance with the violations provision of this Ordinance.

Section 11. (a) Any person who violates any of the provisions of this Ordinance shall, upon being found liable therefore in civil enforcement proceedings commenced by Berwick Township, shall be subject to a fine not exceeding One Thousand (\$1,000) Dollars, plus all court costs, including reasonable attorney fees incurred by Berwick Township.

(b) Upon discovery of any violation of this Ordinance, Berwick Township may, at its option, forgo any prosecution here-under, and may grant to the owner a period of seven (7) calendar days to comply with the provisions of this Ordinance. Upon failure of the owner to effect such compliance, the Township may initiate prosecution as hereinabove set forth.

Section 12. The provisions of this Ordinance shall be severable and if any of its provisions shall be held to be unconstitutional, illegal, or invalid, such unconstitutionality, illegality or invalidity shall not affect the validity of any of the remaining provisions of this Ordinance.

Section 13. No responsibility or liability for the construction of any well/water supply shall be deemed to be placed upon Berwick Township, or its officers, agents, employees, or the Township Representative, by virtue of the terms of this Ordinance or otherwise.

Section 14. All other Ordinances or parts of Ordinances
inconsistent herewith be and the same are hereby repealed.

O
_____ 1996.

D
AIDED AND ENACTED into law this / day of

ATTEST:

TOWNSHIP OF BERWICK, ADAMS
COUNTY, PENNSYLVANIA

Secretary

Wells

By:

Chairman or
of
Supervisors

AD,

Board
[Signature]

APPLICATION FOR WELL CONSTRUCTION IN BERWICK TOWNSHIP

PART I - TO BE COMPLETED BY APPLICANT

Date: _____

Lot Owner: _____

Address: _____

Property Address: _____

Driller Name: _____

PA Certification No. _____

Attach a sketch of the lot indicating the location of the proposed well, buildings, boundary lines, and septic tank(s), absorption area(s), drain field(s). Also, show the preceding items on adjoining properties if they are in the proximity of the proposed well isolation distances.

Owner/Authorized Representative Signature

* * * * * * * * * * * * * * * * * * * * * * *

PART I.I - TO COMPLETED BY BERWICK TOWNSHIP

Preliminary Site Inspection Date: _____

Permit Issued Date: _____

Approved: _____

Authorized Township Representative

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PART III - TO BE COMPLETED BY BERWICK TOWNSHIP

Final Well Inspection Date _____

"APPROVAL OF OPERATION DATE": _____

Disapproved _____ Reason: _____

Authorized Township Representative

Date

NOTE: Prior to Approval of Operation the Well Driller's Report and Laboratory Report shall be submitted and reviewed for completeness by the Authorized Township Representative.

BERWICK TOWNSHIP PROPERTY OWNERS
CHECK - LIST FOR OBTAINING A WELL PERMIT &
INSTALLING SAID WELL

1) Upon obtaining a well application from the Berwick Township Office and paying the well application/permit fee, complete Part I of the well application and sign. Be sure to attach a scale/sketch of premises showing proposed location of well, buildings, boundary lines, and septic tank(s), absorption area(s), drain field(s). Also, show the preceding items on adjoining properties if they are in the proximity of the proposed well isolation distances. Submit this form to the Township's Representative. * See below for Table of Isolation Distances.

* Table of Isolation Distances

<u>Source of Pollution</u>	<u>Minimum Distance</u>
Storm Drains	25 feet
Drains carrying domestic sewage or industrial wastes	50 feet
Septic or Holding Tanks	50 feet
Surface/subsurface sewage disposal fields	100 feet
Sewage seepage pits, cesspools	100 feet
Privies	50 feet
Fuel Tanks	As approved
Other (ditches, streams, barnyards, Rainwater pits, etc.	As approved
Additional Location Restrictions	
Driveways	10 feet
Principal structure/dwelling	20 feet
Property Lines *	10 feet

* Burden of proving location of property line shall fall on property owner. If necessary a survey shall be performed.

2) Upon receipt of an application for a well permit the Township, through the Board's Representative, shall within seven (7) days perform an inspection of the premises on which the well is to be constructed. The inspection shall be conducted in accordance with the provisions of the Berwick Township Well Ordinance and other applicable Township Ordinances.

Upon completion of the inspection, The Board's Representative shall either (a) issue a permit to the applicant indicating the proposed location for the well shown on the sketch is acceptable and meets the requirements of the Ordinance and special instructions for construction, if any. (b) refuse to issue the permit, and, in such event, shall provide the applicant with written reasons for such refusal.

3) Upon completion of construction of the well and related facilities, the Board's Representative shall perform a final inspection of the well/water supply to determine whether there has been compliance with the permit issued.

PERMIT

for

INSTALLATION OF WATER WELL

in

BERWICK TOWNSHIP, ADAMS COUNTY, PA

Name of Applicant: _____

Address of Applicant: _____

Property Address of site for Well Installation:

Date of issuance of Permit: _____

Approving Body: _____

Signature of Authorized Township representative:

NOTE: See attachment for "Table of isolation Distances"

4) Upon submittal of the driller report (see below(a)) and a laboratory report (see below(b)), to the Board's Representative. The Board's Representative will sign off on the original application for "APPROVAL OF OPERATION" and mail a copy to the applicant.

(a) The drillers report shall contain the following pertinent information:

Owner of property	Address & Lot Number
Date of Completion	Depth of Casing Static
Depth of Well	Water Level Yield in
Well Driller	Gals/Min. Grouting
Type & Size of Casing	Certificate Pump
Type of Test Pump used	Output - Gals/Min.

(b) The laboratory report shall contain the following:

Total Colifonti	Fecal Coliform
Iron	Nitrates
Hardness: equivalent calcium carbonates	

ATTACHMENT

TABLE OF ISOLATION DISTANCES

<u>Source of Pollution</u>	<u>Minimum Distance</u>
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Driveways	10 feet
Principal structure/dwelling	20 feet
Property Lines *	10 feet

* Burden of proving location of property line shall fall on property owner. If necessary a survey shall be performed.

A RESOLUTION ADOPTING THE FEE SCHEDULE FOR
ADMINISTRATION OF WELL PERMITS IN BERWICK TOWNSHIP, PENNSYLVANIA

Be it resolved that the fee schedule for the administration of
the Well Ordinance be adopted as follows:

Section 1. Application and Permit Fee for all new wells, reconstruction or major repairs to
existing wells. \$35.00

- (a) This fee entitles the applicant to an application review, preliminary site inspection,
issuance of permit, and final inspection of installed well.
- (b) No additional application reviews or trips to the site are required for preliminary or final
inspection the fee will be commensurate with work performed as determined by the
municipality.

Section 2. Permit Extension

- (a) The Permit extension fee will be commensurate with the work performed as determined by the
municipality.

Section 3. All other Ordinances or parts of Ordinances inconsistent herewith be and the same are
hereby repealed.

RESOLUTION NO. 11-07 AND ENACTED into law this _____ day of September, 1996.

ATTEST:

TOWNSHIP OF BERWICK, ADAMS
COUNTY, PENNSYLVANIA

(
Secretary


Chairman of the Board of Supervisors