



HILLTOWN TOWNSHIP

13 West Creamery Road
P.O. Box 260
Hilltown, PA 18927
(215) 453-6000 Fax: (215) 453-1024
www.hilltown.org

HILLTOWN TOWNSHIP WELL APPLICATION

Public: _____ Permit No.: _____
Semi-Public: _____
Private: _____

APPLICATION FOR PERMIT TO DRILL WELL

Application must be completed, and permit received before drilling operations start.

To: Hilltown Township, Bucks County, Pennsylvania

In accordance with the provisions of Hilltown Township Ordinance, a permit to drill a water well is hereby requested.

TAX PARCEL NUMBER: _____ (found on the real estate tax bill)

A fee of \$75.00 accompanies this application (Please make check payable to: Hilltown Township)

1. Owner's Name: _____
Address: _____
2. Address of proposed well drilling site: _____
3. Well Driller's Name: _____
Address: _____
4. Water to be used for: _____
5. Describe any existing wells on the property: _____
6. Provide a sketch with this application showing the location of the proposed well with relation to all-adjacent wells, and/or sewage or waste disposal systems within 100 feet.
7. In accepting these requirements, the owner agrees to abide by the following conditions:
 - A. Owner will notify well driller that, as part of their contract, the well driller's operations must be in accordance with rules and regulations under the terms of this ordinance.
 - B. Issuance of a permit does not convey any right to divert water.
 - C. This well will not be used for the disposal of wastes or contaminated water.

HILLTOWN TOWNSHIP

Well Permit Application

- D. In the event that this well is abandoned, the owner will assume the responsibility for plugging or sealing the well in a manner acceptable to Hilltown Township.
- E. Well Driller's Report Form will be completed and returned to the Township upon completion of drilling operations.
- F. The well yield shall be determined by a pumping test of not less than 4 hours duration conducted at a rate of not less than 150% of the intended long-term withdrawal from the well. The 4-hour test shall be conducted at a constant rate that should not deviate greater than +/- 5% during the test.
- G. In the event the well does not yield the minimum of 6 gpm, the proposed water system shall provide sufficient storage via tanks and/or storage in the well bore to equal 6 gpm.
- H. At a minimum, the sample of water produced shall be subjected to an examination by a state certified water laboratory for the presence of the following contaminants and certified to be potable.
 - 1. coliforms
 - 2. pH
 - 3. iron
 - 4. nitrates
 - 5. total dissolved solids
 - 6. TCE, PCE, and 1-1-1 trichlorethane
 - 7. detergents h. benzene, toluene, & xylene

A minimum of 3 water samples shall be collected during the pump test for analysis:

- 1. 30 minutes after commencement of the pump test
 - 2. 2 hours after commencement
 - 3. 10 minutes prior to the end of the test
8. The owner must comply with the 1995 Hilltown Township Zoning Ordinance as amended and Well Ordinance # 87-2

Note: The issuance of a permit to drill a well or a Certificate of Compliance shall not be construed as a guarantee that the systems will function satisfactorily nor shall it in any way restrict the powers of responsibilities of the State, County, or Municipality in the enforcement of any law or Ordinance relating to Public Health.

Date: _____

Owner's Signature: _____

Owner's Telephone Number: _____ Email: _____

Bucks County Department of Health
Division of Environmental Health
Quakertown Office 215-529-7000
Doylestown Office 215-345-3318
Levittown Office 267-580-3510

Policy and Procedures to Construct / Modify a Well

The Bucks County Department of Health (BCDH) has established procedures and standards for the location, construction/modification and abandonment of residential wells, test wells, monitoring wells, irrigation wells, geothermal wells, and water quality sampling as set forth in the **BCDH Rules and Regulations Governing all Wells and their Construction Specifications**. Well casing reconstruction, pitless installations, deepening a well or hydrofracturing are considered well modifications.

Residential well and/or Geothermal well applicant instructions:

- a. Applicant must submit BCDH Application to Construct/Modify all Wells (SA-130), current fee and a plot plan of the property.
- b. It shall be unlawful to install a new well or geothermal system or modify an existing well without a valid well permit.
- c. The application to construct must be filed and signed by the current property owner or equitable owner.
- d. This Department will field-verify accuracy of submission. The well location(s) must be marked with an appropriate visual stake. If it is not visual and a second field stop is necessary a fee will be charged (see current fee schedule).
- e. The application shall be approved or denied within (7) seven working days of receipt of an administratively complete application and fee. BCDH shall notify applicants if the application is determined to be incomplete or contains information that cannot be verified. Upon receipt of the supplemental information, BCDH has an additional (7) seven days to approve or deny the application.
- f. Municipal well permits do not supersede the requirement to obtain a valid BCDH well permit along with all supporting data and the appropriate fee. Check with the municipality in which the well will be located to determine if there is a separate ordinance governing well permitting.
- g. All sewage system component locations within 125 ft. of the proposed well(s) on said property must be clearly staked prior to approval of the well construction permit and commencement of well drilling.
- h. Verification of property lines is the responsibility of the property owner. It is recommended that the property owner have a qualified professional certify all isolation distances.
- i. Any relocation of the proposed well site(s) from the permitted location must be submitted in writing and approved by BCDH.
- j. An application is neither a contract for, nor a guarantee of satisfactory water quantity or quality. An application is not a final approval to use the well, nor is it a guarantee that final approval will be granted.
- k. The BCDH must receive at least forty-eight (48) hours notice prior to drilling the well for an on site inspection.
- l. If well construction is not completed within (3) three years of the application approval date, the approval to construct shall expire.

Construction Specifications

Residential Well / Geothermal System Location:

- a. For the proposed well(s), minimum isolation distances shall be maintained from the designated facilities and potential pollution sources listed below.
- b. Any proposed deviation from the isolation distances in the referenced section must be submitted in writing to the Department for review.

Individual Residential Water-Supply / Geothermal System Isolation Distances

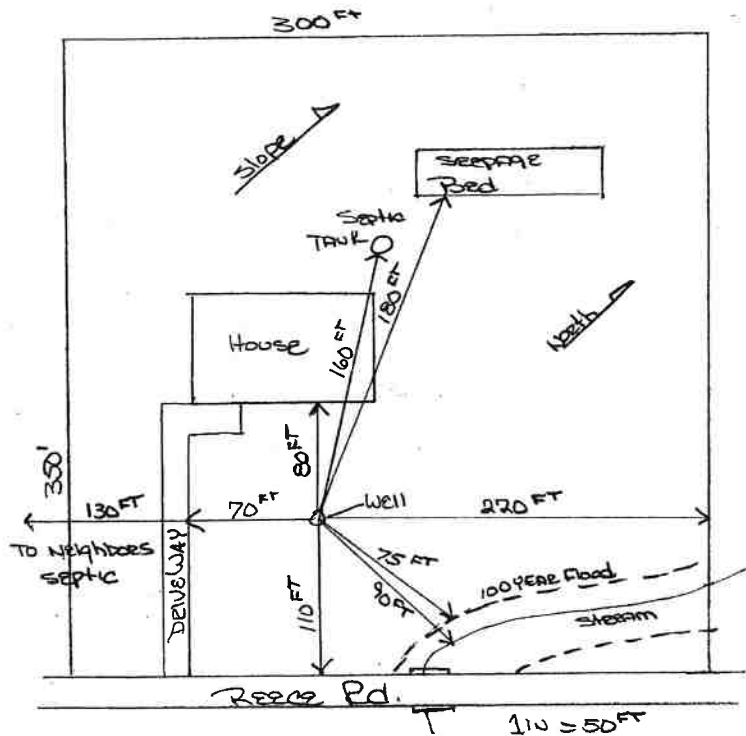
- a. Delineated wetlands or 100-year floodplain - **25 feet**
- b. Storm drains, retention basins, storm water stabilization ponds, and rain water pits - **25 feet**
- c. Community spray irrigation sites, sewage sludge and septic disposal sites - **100 feet ***
- d. Lakes, ponds, streams or other surface waters - **50 feet ***
- e. Farm silos, barn yards, manure pits, tanks or other storage areas of animal manure - **200 feet ***
- f. Subsurface sewage absorption areas, elevated sand mounds, cesspools, sewage seepage pits, single family spray irrigation system, etc. - **100 feet ***
- g. Septic tanks, aerobic tanks, sewage pump tanks, holding tanks - **50 feet ***
- h. Gravity sewer lines and drains carrying domestic sewage or industrial waste - **50 feet**
- i. Gravity sewage lines and drains using cast iron pipe with watertight lead caulked or neoprene gasketed joints, or Schedule 40 polyvinyl chloride (PVC) pipes with solvent welded joints - **10 feet**
- j. Sewer lines and drains carrying domestic sewage or industrial waste under pressure (except welded steel pipe or concrete encased pipe) - **50 feet ***
- k. Commercial preparation area or storage area of hazardous spray materials, fertilizers or chemicals; salt piles - **300 feet ***
- l. Drip irrigation zones - **102 feet ***
- m. Building foundations, mobile homes, driveways, property lines, right of ways and swimming pools - **10 feet**

Note: Closed Loop Geothermal Systems shall meet one half the isolation distances noted with an *

Plot Plans

- a. Must be submitted on 8 ½" x 11" or larger paper using the whole page @ 1" = 50' or more.
- b. Must also include all of the following information: property lines, adjacent streets, lot dimensions, reference to north, direction of slope, delineation of floodplain (where applicable)
- c. For geothermal systems; the grout type, piping and system operating pressure must be submitted with the plot plan.

The following is an example of a plot plan required with the Application to Construct/Modify an individual residential well.



| | | | |
|-------|-----|------|--------|
| | MUN | YEAR | SERIAL |
| BCDH# | W | | |

Bucks County Department of Health

7321 New Falls Road, Levittown, PA 19055 – Phone: 267-580-3510 – Fax: 215-949-5819
 1282 Almshouse Road, Doylestown PA 18901 – Phone: 215-345-3336 – Fax 215-340-8456
 261 California Road, Quakertown, PA 18951 - Phone: 215-529-7000 – Fax: 215-529-7032

APPLICATION TO CONSTRUCT/MODIFY ALL WELLS

Well Owner: _____ Site Address: _____
Street

Mailing Address: _____
Post Office State Zip

Telephone #: _____
Subdivision Name Lot #

Municipality
 Tax Parcel # _____ - _____ - _____ - _____

Application Fee Required \$ _____ Date Received _____
 *(See current fee schedule)

Well Driller Company: _____
 License # _____

Send copy/response to consultant/driller? Yes No

| Type of Well Construction | Geothermal Wells | Method of Sewage Disposal |
|---|---|--|
| <input type="checkbox"/> New Well | <input type="checkbox"/> Open Loop | <input type="checkbox"/> Public <input type="checkbox"/> On-Site |
| <input type="checkbox"/> Deepen Existing Well | <input type="checkbox"/> Closed Loop | If on-site Sewage Permit # |
| <input type="checkbox"/> Hydrofracturing | # of Holes | Date Issued |
| <input type="checkbox"/> Abandoned | <input type="checkbox"/> Monitoring Wells | Date Finalized |
| <input type="checkbox"/> Other (specify) | # of Holes | |

Plot Plan

Note: 4 copies of plot plan must accompany this application and be to a scale of 1" = 50' (minimum) on 8 1/2" x 11" paper (minimum size).

Note: For new or modified drinking water well construction a **RESIDENTIAL WELL WORKSHEET SA-131** must be filed and approved by Bucks County Department of Health **BEFORE** the water can be used for consumption.

Directions to Drilling Site:

Owner Declaration: I certify that the location herein proposed is accessible and meets all isolation distances presented in BCDH Rules and Regulations Governing all Wells and their Construction Specifications.

Owner(s) Name: _____ Owner's Signature: _____ Date _____

Original Signature Required / No Faxed Copies Will Be Accepted

For Department Use Only

Approval to Construct/Modify

BDCH Signature: _____

Date: _____

Approval to use

Date: _____

By: _____

ORDINANCE NO. 87-2

AN ORDINANCE PROVIDING FOR MANDATORY CONNECTION TO PUBLIC WATER SYSTEMS; ESTABLISHING WATER CONSERVATION REQUIREMENTS FOR ALL NEW STRUCTURES WITHIN HILLTOWN TOWNSHIP; AND PROVIDING FOR WELL CERTIFICATION FOR PRIVATE WATER SUPPLIES.

BE IT ORDAINED by the Board of Supervisors of Hilltown Township, Bucks County, Pennsylvania, and it is hereby enacted and ordained by the authority of same:

Section 1. Definitions.

The following words, terms, and phrases used in this ordinance shall be defined and construed as follows:

A. "Authority" shall mean the water authority supplying service to the area, either Hilltown Township Water and Sewer Authority, Telford Borough Authority, or North Penn Water Authority.

B. "Business" shall include commercial, industrial, and professional activity.

C. "Consumer" shall include a person, partnership, association or corporation, and shall mean anyone to whom water is supplied by the Authority, whether as owner or tenant.

D. "Equivalent Dwelling Unit" shall mean a habitation intended for occupancy by a single family.

E. "Property" shall mean the following:

1. a building or enclosure occupied as a single dwelling unit or business;
2. a combination of buildings in a common enclosure occupied as a single dwelling or business;
3. one side of a double house with a solid vertical partition wall occupied as a single dwelling unit;
4. each dwelling unit, business, or profession in addition to the first dwelling unit, business or profession occupying the same building or enclosure, regardless of whether or not any additional plumbing facilities are existing with respect to such dwelling units, businesses, or professions in addition to those installed or existing in the first year thereof; provided,

however, that during the first year following the date upon which newly constructed or reconstructed commonly owned multiple dwelling, business or professional unit in addition to the first such unit shall be considered as property for purposes of this Ordinance only upon its having been rented for occupancy. Upon the expiration of such first year, such additional dwelling, business or professional unit shall be considered a property hereunder, regardless of whether or not it has been so rented.

F. "Water System" means all the facilities of the Authorities for the supplying of water to consumers.

G. "New Construction" shall mean construction pursuant to a valid building permit issued subsequent to date of enactment hereof.

Section 2. Water Supply Connections.

All buildings requiring water service located within 150 feet of the right-of-way of a public water main shall be required to make connection to said public water main and pay applicable connection fees and rental rates to the Authority having ownership of the public water main, in the following instances:

A. All new construction requiring water supply.

B. All existing structures wherein the structure is enlarged or changed in use to a new use to require increased water capacity. This does not include residential additions which do not increase the number of dwelling units.

Section 3. Water Conservation Requirements.

Water saving fixtures and devices shall be required in all new construction regardless of public or private water supply pursuant to the following specifications:

A. Water closets operated by flush tanks.

The water consumption of water closets operated by flush tanks shall not exceed an average of 3.5 gallons per flush cycle over a range of test pressures from twenty (20) to eighty (80) psig or a maximum of 4.0 gallons per flush cycle at any one test pressure. The fixture shall perform in accordance with the flush-

ing test requirements cited in the ANSI 112.19.2 Vitreous China Plumbing Fixtures standard.

B. Showerheads.

Showerhead discharge rate shall not exceed 2.75 gallons of water per minute over a range of test pressure from twenty (20) to eighty (80) psig. The fixture shall perform in accordance with the test requirements cited in the ANSI 112.18.1 Finished Rough Brass Plumbing Fixture Fittings standard.

C. Sink Faucets.

1. Kitchen sink faucet discharge rates shall not exceed 2.75 gallons of water per minute over a range of test pressure from twenty (20) to eighty (80) psig. The fixture shall perform in accordance with the test requirements cited in the ANSI 112.18.1 Finished Rough Brass Plumbing Fixture Fittings standard.

2. Residential lavatory sink faucet discharge rates shall not exceed 2.75 gallons of water per minute over a range of test pressures from twenty (20) to eighty (80) psig. The fixture shall perform in accordance with the test requirements cited in the ANSI 112.18.1 Finished Rough Brass Plumbing Fixtures Fittings standard.

Section 4. Well Certification.

Where private water supply is to be installed for new construction, certification as to capacity and quality is required prior to issuance of a Hilltown Township building permit for the structure serviced.

A. The well yield shall be determined by a pumping test of not less than 4 hours duration conducted at a rate of not less than 150% of the intended long-term withdrawal from the well. The 4 hour test shall be conducted at a constant pumping rate that should not deviate greater than +/- 5% during the test.

B. In the event the well does not yield a minimum of 6 gpm, the proposed water system shall be designed to be able to provide sufficient storage via oversize tanks and/or storage in the well bore for the length of time it would take for the expected peak demand to empty a standard pressure tank being supplied by a well pumping 6 gpm.

C. All well drillers shall, upon completion of the well, provide the Township with a copy of the report submitted to the Commonwealth of Pennsylvania and sufficient data and documentation to verify compliance with subsection A and B, above.

D. At a minimum, the sample of the water produced shall be subjected to examination by a state certified water laboratory for the presence of the following contaminants and certified to be potable.

1. coliforms
2. pH
3. iron
4. nitrates
5. total dissolved solids
6. TCE, PCE, and 1-1-1 trichlorethane
7. detergents
8. benzene, toluene, xylene.

A minimum of three (3) water samples shall be collected during the pump test for analysis:

1. 30 minutes after commencement of the pump test;
2. 2 hours after commencement;
3. 10 minutes prior to the end of the test.

Section 5. Well Construction.

Each well shall be provided with a water tight casing. The minimum length of the casing to be 40' or 10' into bedrock, whichever is greater. The material of the casing shall be steel with a weight of 18.97 lbs. per linear foot. All joints between sections of casing shall be made by continuous welding. Where a pump section or discharge pipes enter or leave a well through the side of the casing, the circle of contact shall be water tight. All casings shall extend at least eighteen inches above final grade. The annular space between the earth and outside of the casing shall be filled with cement grout to a distance of at least six feet below the ground surface. Unconsolidated or carbonate water bearing formations will require special consideration.

Section 6. Withdrawals in Excess of 10,000 Gallons.

All private wells with a 30 day average daily withdrawal rate in excess of 10,000 gallons shall register their well

with the Delaware River Basin Commission and shall provide the Township with copies of all correspondence, applications, and required submissions and/or reports to the Delaware River Basin Commission.

Section 7. Permit Required.

Prior to commencement of well drilling operation, owner shall be required to make application to, and receive approval from, Hilltown Township.

Issuance of a permit to drill well shall not be made until payment of a permit fee in the amount established by Resolution of the Board of Supervisors.

Section 8. Penalty.

The provisions of this Ordinance are declared to be for the health, safety and welfare of the citizens of the Township and persons violating any provisions, upon conviction before any District Justice of Bucks County, shall be fined the sum of Three Hundred (\$300.00) Dollars and costs. Each day during which such violation of any provisions shall continue, shall be deemed to be a separate offense.

Section 9. Severability.

If any provision, sentence, clause, section or part of this Ordinance, or the application of any provision hereof, is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections or parts of this Ordinance. It is hereby declared as the intent of the Township that this Ordinance would have been enacted had such unconstitutional, illegal or invalid provision, sentence, clause, section or part hereof not been included.

Section 10. Repealer.

All Ordinances or parts of Ordinances in conflict or inconsistent herewith, be and the same are hereby repealed absolutely.

Section 11. Effective Date.

This Ordinance is hereby declared to be urgent for the preservation of the peace, health and comfort of the people of the Township and shall take effect and be enforced

five (5) days after it is enacted by the Board of Supervisors of the Township.

SO ORDAINED AND ENACTED into Ordinance this *5th*
day of *May*, A.D., 1987.

HILLTOWN TOWNSHIP
BOARD OF SUPERVISORS

Vin Pugh
Robert A. Neuman
Betty J. Kelly

Attest:

Gloria G. Neuman
Gloria G. Neuman
Township Secretary