ENVIRONMENTAL REPORT

CHAPTER 2

ENVIRONMENTAL DESCRIPTION

2.0 ENVIRONMENTAL DESCRIPTION

2.1 STATION LOCATION

The proposed new nuclear power plant, Bell Bend Nuclear Power Plant (BBNPP), will be located west of the existing nuclear power plant, Susquehanna Steam Electric Station (SSES) Units 1 and 2 in Salem Township, Luzerne County, Pennsylvania. The BBNPP Project and Property Boundaries are as shown in Figure 2.1-1.

The BBNPP site is approximately 5 miles (8 km) northeast of the Borough of Berwick, Pennsylvania. It is adjacent to U.S. Route 11. The site is 1.6 mi (2.6 km) to the north and west of the north branch of the Susquehanna River.

The site is approximately 115 miles north west of Philadelphia, Pennsylvania. The North American Datum of 1983 (NAD 83) Geodetic coordinates of the center of the BBNPP Containment Building are latitude 41° 05′ 21″ North and longitude 76° 09′ 57″ West. The NAD 83 Universal Transverse Mercator (UTM) coordinates for the center of the BBNPP Containment Building are the UTM Zone 18N (78W to 72W), North 4,549,316 and East 402,075.

The 50 mi (80 km) region around the BBNPP site is shown in Figure 2.1-2 while the 6 mi (10 km) vicinity is shown in Figure 2.1-3. A high oblique aerial photograph of the BBNPP site is shown in Figure 2.1-4. See Figure 2.1-5 for the area uses during construction.

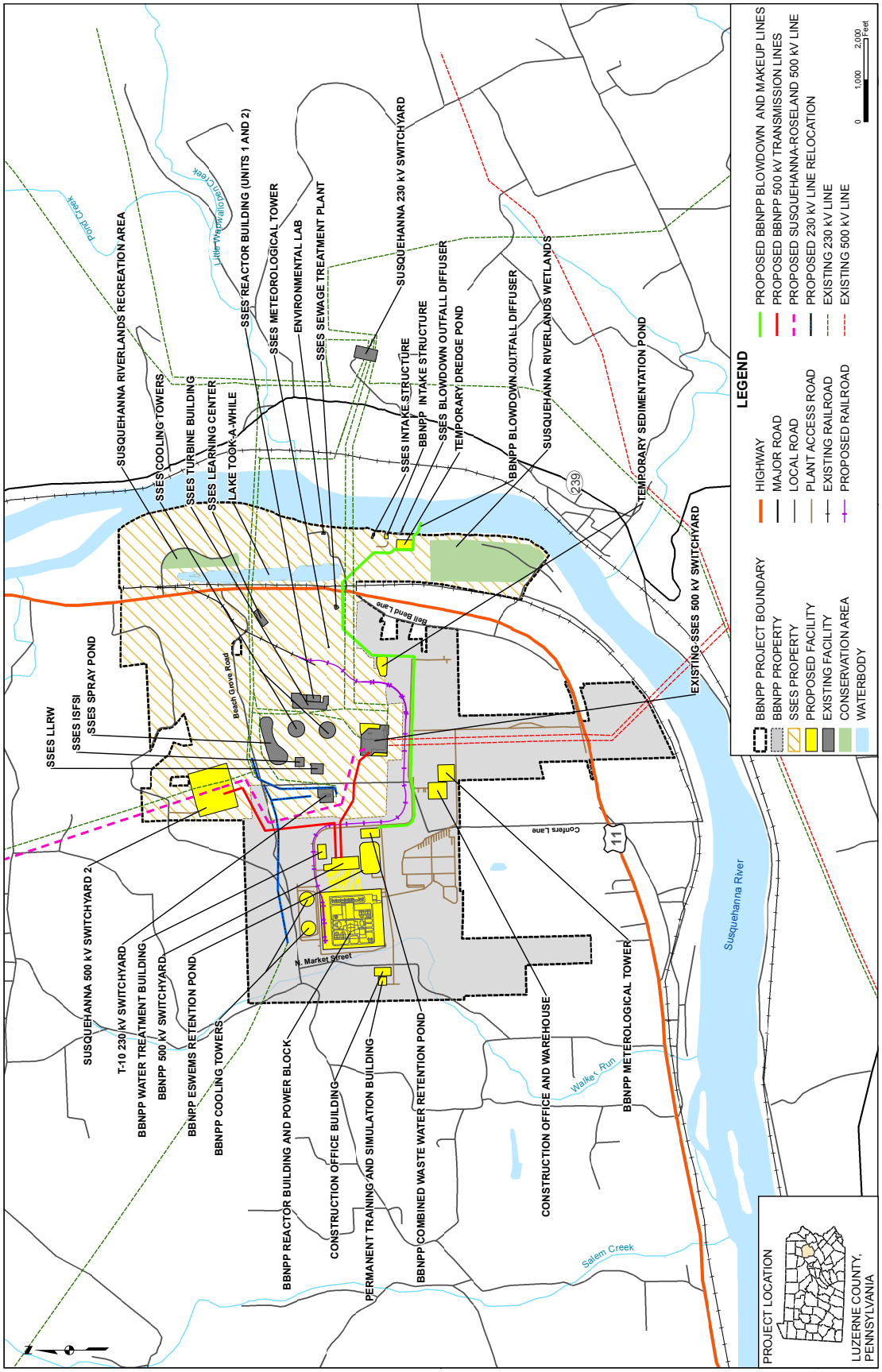


Figure 2.1-1— BBNPP Site and Proposed New Plant Layout

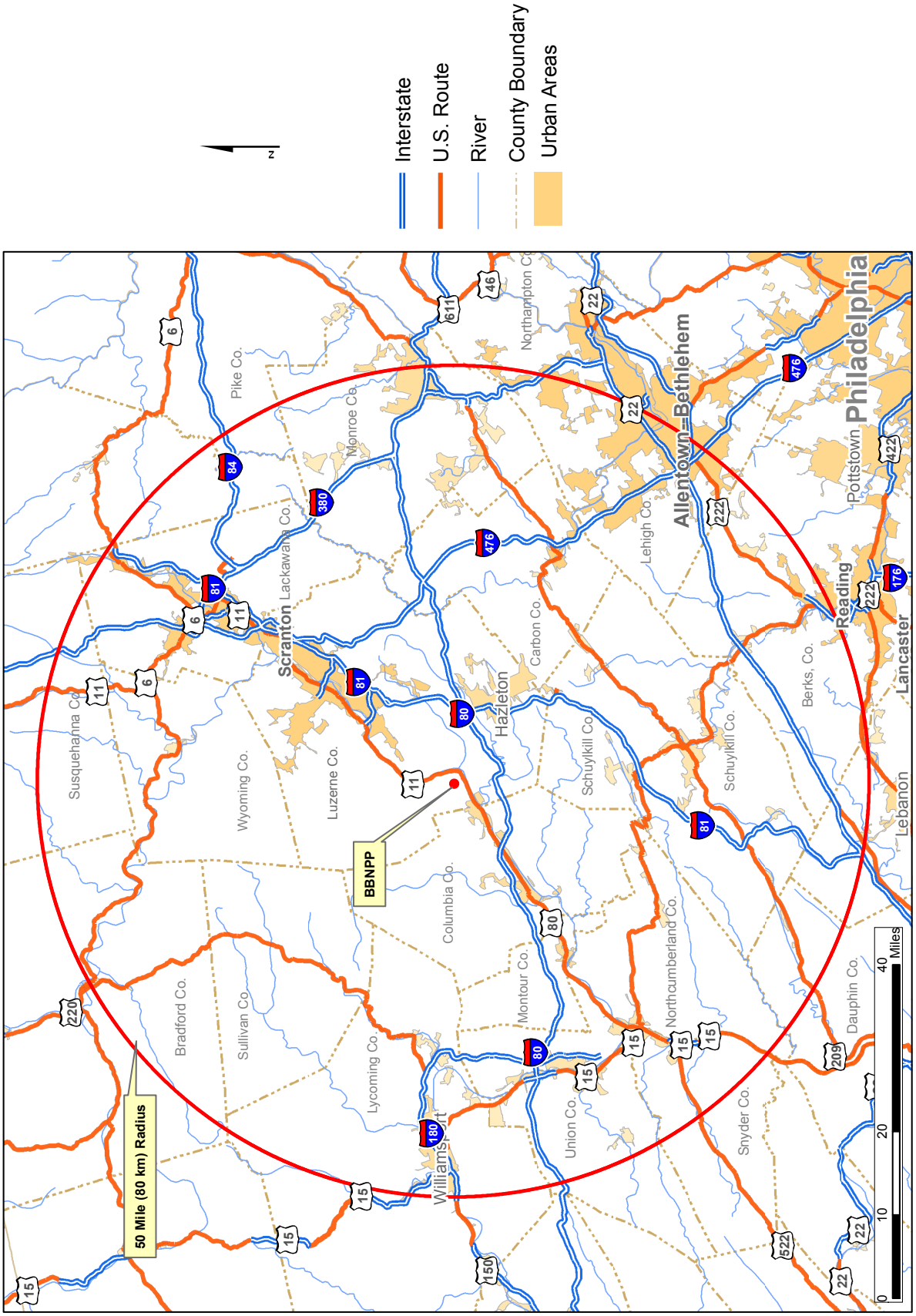


Figure 2.1-2— BBNPP Site 50 Mile (80 km) Region

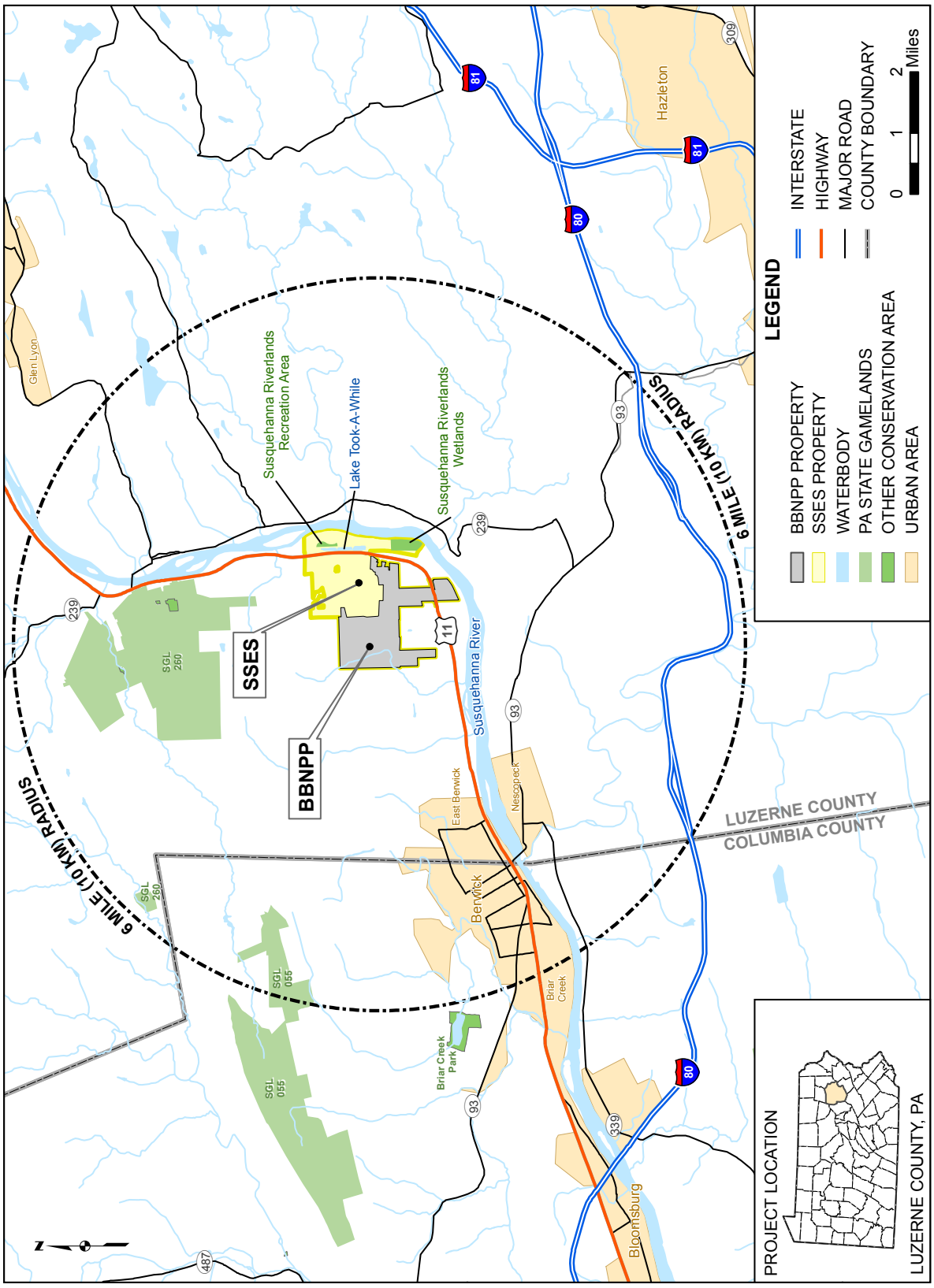


Figure 2.1-3— BBNPP Site 6 mi (10 km) Region

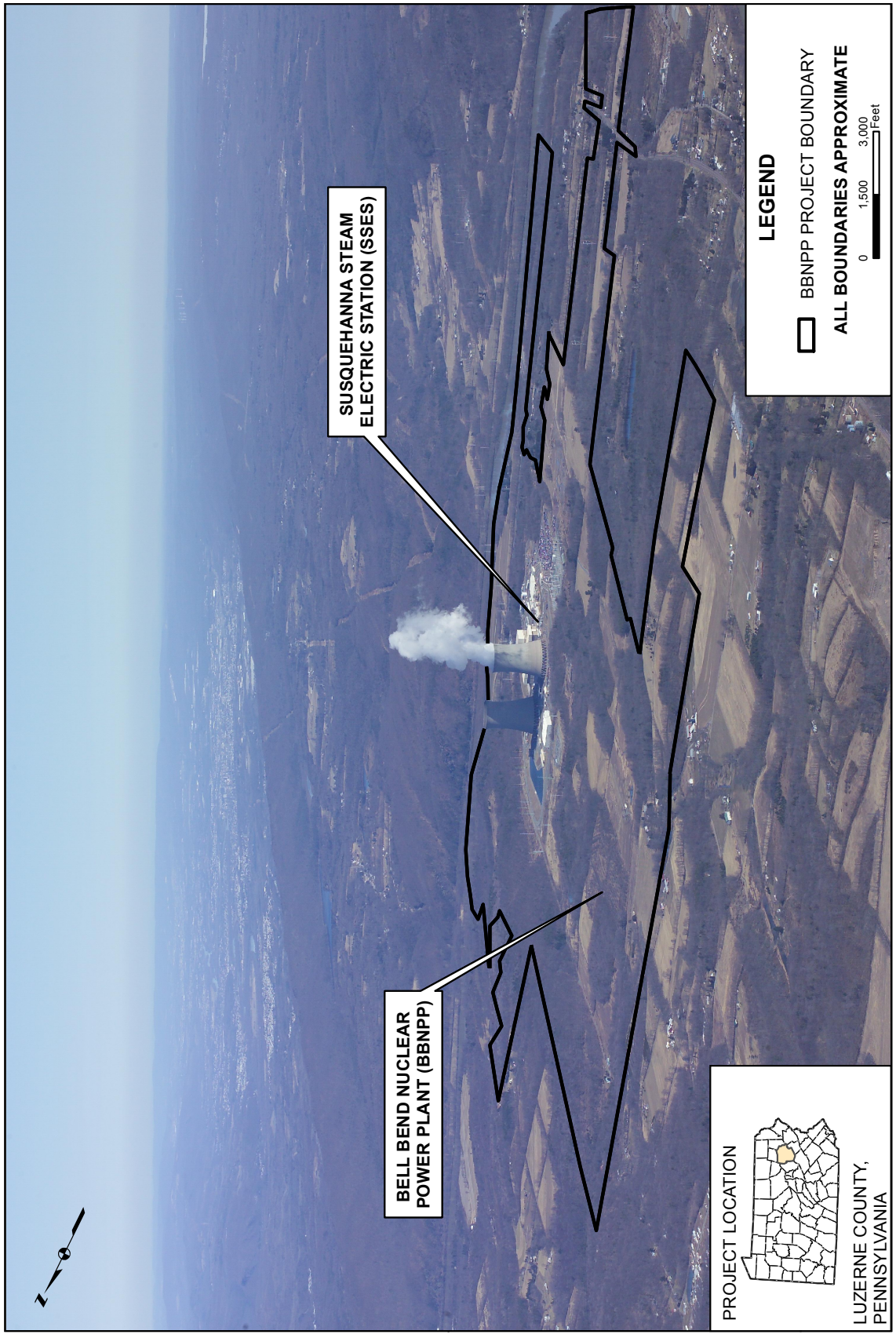
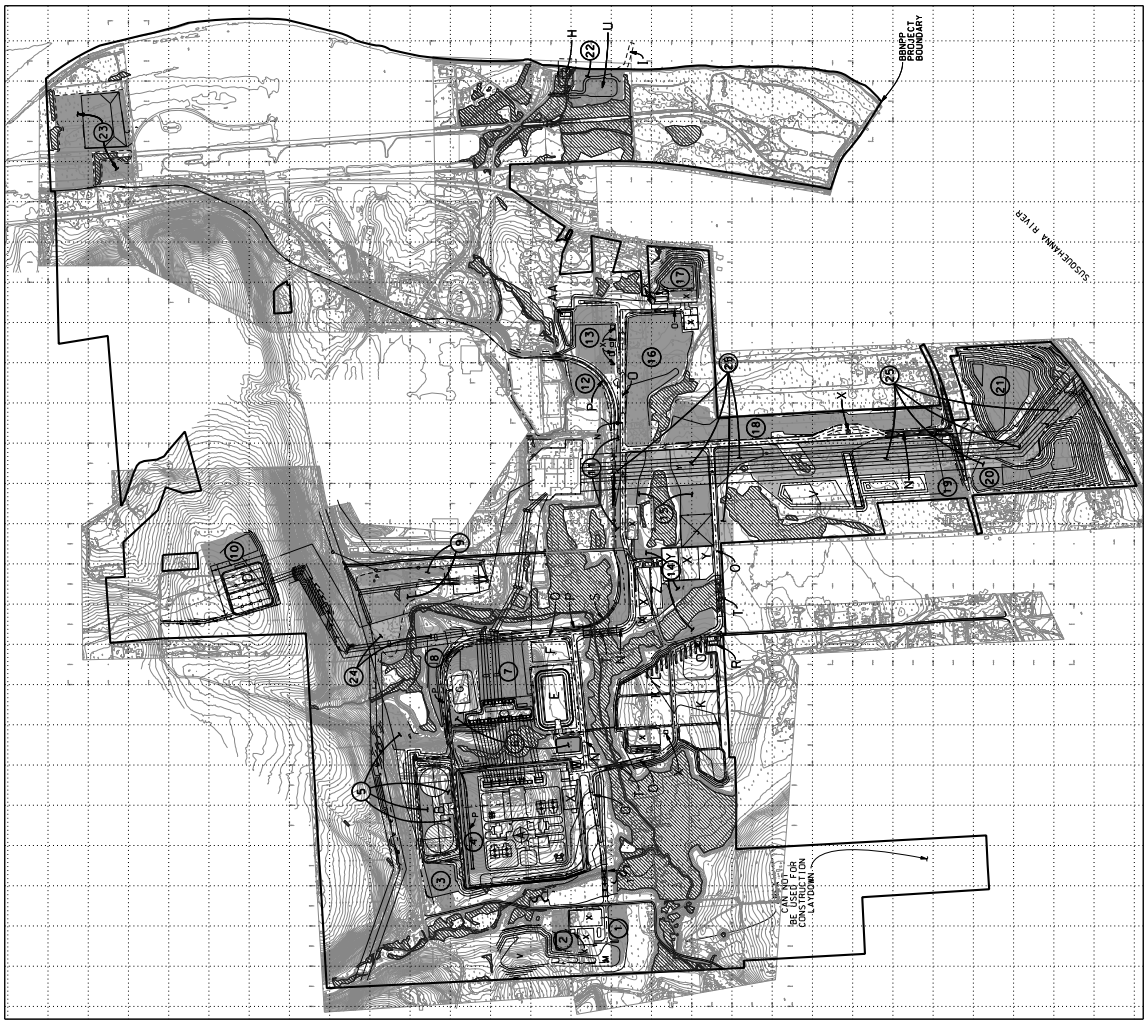


Figure 2.1-4— Oblique Aerial Photo Showing BBNPP Project Area

Figure 2.1-5— Area Uses During Construction



2.2 LAND

This section establishes the nature and extent of current and proposed land use within the vicinity and region of the proposed site that might be impacted by station construction and operation. The review evaluates both on and offsite areas that will be modified for the sole purpose of supporting construction and maintenance of the proposed facilities.

2.2.1 The Site and Vicinity

The Bell Bend Nuclear Power Plant (BBNPP) site is located in Salem Township, Luzerne County, Pennsylvania, adjacent to Susquehanna Steam Electric Station (SSES) along the Susquehanna River in an area of open deciduous woodlands interspersed with grasslands, previously cultivated fields, and orchards. The largest community within 10 mi (16 km) of the site is the borough of Berwick, Pennsylvania, approximately 5 mi (8 km) to the southwest. The nearest metropolitan areas are Wilkes-Barre, Pennsylvania, approximately 20 mi (32 km) to the northeast; Allentown, Pennsylvania, approximately 50 mi (80 km) to the southeast; and Harrisburg, Pennsylvania, approximately 70 mi (113 km) southwest of the BBNPP site (PPL, 2006).

PPL Susquehanna, LLC, owner of SSES, owns 2,355 ac (953 ha) on both sides of the Susquehanna River. SSES is on the west side of the Susquehanna River on 1,480 ac (599 ha), that includes the SSES property (1,080 ac (437 ha)) and the Riverlands Recreation Area (400 ac (162 ha)), a strip of land between the power generating facilities and the Susquehanna River (PPL, 2006). The Riverlands Recreation Area includes natural and recreational areas:

- Riverlands Nature Center - The Nature Center is located in the Susquehanna Energy Information Center at the entrance to the Recreation Area.
- Riverlands Recreation Area - This recreation area on the west side of the river is a popular spot for picnicking, group outings, hiking, sports, and playing.
- Lake Took-A-While - A 30 ac (12 ha) fishing lake and a restored section of the North Branch Canal provide fishing opportunities and are open to the public. Boating is allowed, but no gasoline engines are permitted.
- Wetlands Nature Area - This 94 ac (38 ha) tract of riverine forest, marsh, swamp, and vernal pools has been set aside as an area for nature study and education. A portion of the long-abandoned North Branch Canal runs north-south across the property (PPL, 2006).

A map depicting the land use within the BBNPP Project Boundary is presented in Figure 2.2-1. Land use categories for this map are consistent with the land use classification codes listed in "USGS Land Use and Land Cover Data" (USGS, 2008). PPL Susquehanna, LLC, PPL Bell Bend, LLC, and other entities of PPL Corporation currently own the BBNPP and SSES properties. PPL Susquehanna, LLC , which owns 90% of SSES Units 1 and 2 and Allegheny Electric, which owns 10% of SSES Units 1 and 2, will retain ownership of the SSES property. PPL Bell Bend, LLC will be the owner of BBNPP and the owner of the BBNPP property. The owner and operator of BBNPP will be PPL Bell Bend, LLC.

The areas devoted to major uses of the land within the BBNPP Project Boundary are summarized in Table 2.2-1. In addition, Table 2.2-1 identifies the estimated acreage within each land use category following construction. The Table is consistent with USGS land use categories. The image used to create Figure 2.2-1 and Table 2.2-1 is part of a large scale land-use classification conducted by the USGS and augmented by wetlands delineation and

stream boundary field surveys within and adjacent to potential areas of disturbance inside of the BBNPP Project Boundary. The scale of this image provides a generalized land-use cover, with the exception of wetlands, which does not take into account small features and parcels of land. A more detailed figure and description of the site is available in Section 2.4.1. A map showing major land uses within 6 mi (10 km) of the project is presented in Figure 2.2-2 with land uses classified consistent with the 2008 USGS land use/cover categories (USGS, 2008). Major land uses in the 6 mi (10 km) vicinity of the project are summarized in Table 2.2-2. The vicinity is defined as the area encompassed within a radius of 6 mi (10 km) surrounding the plant site. A topographical map of the BBNPP Project Boundary is presented in Figure 2.2-3 (USGS, 2008).

There are no known claims by Native Americans on lands within the BBNPP Project Boundary or within the 6 mi (10 km) radius of the BBNPP site. There are no known lands of special land-use within the BBNPP Project Boundary. Special land-use categories are defined as Native American or military reservations, State and national parks, national monuments, national forests, wild and scenic rivers, designated coastal-zone areas, and wilderness areas.

State lands, as detailed in Table 2.2-3, within the vicinity of the BBNPP site are limited to areas of two state game lands and two state park lands. State Game Land No. 55 covers 2,511 ac (1,016 ha) in Columbia County just west of the BBNPP site. State Game Land No. 260, located east of the BBNPP site, covers 3,087 ac (1,249 ha) in Luzerne County (PGC, 2006). The Pennsylvania Game Commission maintains/manages both the wildlife and its habitats within the Game Land boundaries and provides recreation and education for the general public. The two state park parcels, Theta Lands, occupy 109 ac (44 ha) north of the proposed site. The Theta Lands are part of the Theta Lands Conservation Project which encompasses more than 10,000 ac (4,047 ha) in Luzerne and Lackawanna Counties. These lands provide recreational opportunities and clean water to the people of this region (DCNR, 2008).

There are no known National Parks, National Forests, or National Monuments within the BBNPP site vicinity.

Private lands held in trust or through other use restrictions include two areas maintained by private owners through the North Branch Land Trust (NBLT) as detailed in Table 2.2-4 (NBLT, 2008). The NBLT property located to the north of the BBNPP site covers an area of 49 ac (20 ha) and connects with State Game Land No. 260. The second NBLT trust land, located to the south of the BBNPP site, occupies 88 ac (35 ha) (TCF, 2004).

There are two residences within the BBNPP exclusion area boundary that will be vacated prior to plant operations.

Figure 2.2-1 and Figure 2.2-2 show major roads/highways and utility rights-of-way that cross and are in the vicinity of the BBNPP site. There is an operating rail line along both banks of the Susquehanna River within the 6 mi (10 km) vicinity of the BBNPP site. The BBNPP site is bordered on the south and east by the Susquehanna River. The Susquehanna River is frequented by recreational boaters, but is not used for commercial shipping. Egress from the areas surrounding the site is limited to the north and west along U.S. Highway 11, which runs along the north-western bank of the Susquehanna River. (USGS, 1999)

No significant mineral resources within or adjacent to the BBNPP Project Boundary have been identified. The only mineral resources occurring at the site are siltstone and sand and gravel (PPL, 1972). The siltstone could not be mined economically due its depth. Deposits of sand

and gravel underlie most portions of the Susquehanna River Valley. A very small portion of these deposits are under the Susquehanna River floodplain at the BBNPP site. PPL owns all mineral rights within the BBNPP Property Boundary. There are no mineral resources currently being mined located adjacent to the BBNPP site.

The BBNPP site is located in the southwestern quadrant of Luzerne County. This area is characterized by forests, open, undeveloped, agricultural, mined, and developed land. The developed portions of this area are located in and around the city of Hazleton and the eastern outskirts of Berwick Borough. As shown on Figure 2.2-4, most of the area within the BBNPP Project Boundary is zoned as a special industrial district, with the eastern riverfront portion zoned as conservation district (Salem, 2011). Smaller areas of highway business district and agricultural district zoned land are also present within the BBNPP Project Boundary.

The proposed project also requires approval of a proposed plan of development which must be obtained from Salem Township. The Salem Township Planning and Zoning Commission is responsible for managing the consolidated review of the environmental, engineering, socioeconomic, planning and cost of those projects which require an approved Plan of Development. Various state and county agencies provide assistance and various plan and permit approvals to support the review and approval effort.

2.2.2 Transmission Corridors and Offsite Areas

2.2.2.1 Existing Corridors

The BBNPP property lies within the Pennsylvania, New Jersey and Maryland (PJM) Regional Transmission Organization. The existing transmission system, located on the Susquehanna Steam Electric Station (SSES) property, consists of two substations: 1) the 500 kV substation, which has two 500 kV circuits, and 2) the 230 kV T-10 substation, which has three 230 kV circuits. A 230 kV switchyard is also located on the SSES property, which has seven 230 kV circuits and one 500/230 kV interconnection.

Six transmission lines connect SSES to the regional grid and will be used by BBNPP (PPL, 2006). There are three short ties in the SSES vicinity totaling approximately 6 mi (10 km) that connect SSES to the 230 kV electrical system. These ties are located primarily within SSES controlled areas and are not accessible to the public. However, U.S. Highway 11, PA State Highway 239, and other paved roads in the immediate plant vicinity are crossed by the short ties. Stanton #2 is a single circuit 230 kV line which runs generally northeast from SSES for approximately 30 mi (48 km) in a 100 to 400 ft (30 to 121 m) wide corridor. The Wescosville 500 kV line connects SSES with the Alburtis substation. It runs generally southeast for approximately 75 mi (121 km) in a 100 to 400 ft (30 to 107 m) wide corridor. The Sunbury #2 is a 500 kV line which shares a corridor with the Sunbury #1 230 kv line and runs for approximately 30 mi (48 km) in a west-southwest direction. The corridor is approximately 325 ft (99 m) wide. Existing transmission corridors are shown in Figure 2.2-1 and Figure 2.2-2 and Figure 2.2-5 (PPL, 2006).

2.2.2.2 Proposed Transmission System Modifications

No additional transmission corridors or other offsite land use would be required to connect the new reactor unit to the existing electrical grid. The following facilities would be constructed on the BBNPP site:

- One new 500 kV switchyard to transmit power from BBNPP;
- Two new 500 kV, 4,260 MVA circuits on individual towers, connecting the BBNPP substation to the existing SSES 500 kV Yard, approximately 0.50 mi (0.80 km) in length,

and to the proposed 500 kV Susquehanna Yard #2, approximately 0.75 mi (1.21 km) in length;

- One new 500 kV transmission system switchyard (Susquehanna 500 kV Yard #2); and
- Expansion of the existing Susquehanna 500 kV Yard.

Additionally, the 230 kV transmission lines currently passing through the BBNPP site will be relocated to run to the north of Beach Grove Road in order to provide a buffer from the BBNPP Circulating Water System cooling towers and provide additional areas for the location of plant-related structures. An expansion of the existing SSES 500 kV switchyard will be required to accommodate the connection to the new BBNPP switchyard.

In its generation interconnection Impact Study Restudy (PJM, 2008), PJM identified that BBNPP contributes to two previously identified transmission study upgrades for overloads, initially caused by prior Queue position generation additions. Any related off-site modifications are due to prior Queue position generation additions, and will be implemented independent of BBNPP.

2.2.2.3 Land Use

In total, for the purpose of connecting SSES to the transmission system, PPL Susquehanna has approximately 150 mi (241 km) of corridor that occupy approximately 3,341 ac (1,352 ha) crossing eight counties (Luzerne, Carbon, Columbia, Lehigh, Northampton, Northumberland, Montour, and Snyder). BBNPP is expected to utilize these existing corridors as well. The corridors pass through land that is primarily agricultural or forest land. The areas are mostly remote, with low population densities. The longer lines cross numerous state and U.S. highways. Impact of these corridors on land usage is minimal; farmlands that have corridors passing through them generally continue to be used as farmland. (PPL, 2006).

Additionally, SSES and BBNPP will both be connected to the existing Susquehanna-Roseland transmission line that will be brought into service in 2015, independent of the BBNPP, as described in FSAR Chapter 8. Land use within the new transmission corridor is expected to be similar to that of the existing corridors.

2.2.3 The Region

The region within a 50 mi (80 km) radius of the BBNPP site includes all or part of 22 counties in Pennsylvania. The 50 mi (80 km) region including major waterways and highways are shown in Figure 2.2-6. Interstate 81 (I-81) passes east of the site intersecting I-80 to the south of the BBNPP site. These two interstates connect with portions of I-84, I-380, I-476, and I-78 which are all within a 50 mi (80km) radius of the site. (USGS, 1999)

Land acreage devoted to major uses within the 50 mi (80 km) region are presented in Table 2.2-5 and shown on Figure 2.2-7. The land use/cover categories used in the table are those used by the U.S. Geological Survey. Agricultural products grown in the 50-mile region surrounding the BBNPP site include barley, corn, soybean, wheat, vegetables, hay, poultry, and cattle (USDA, 2007). The 2007 annual yields for these products are shown inTable 2.2-6.

This section focuses on two Pennsylvania counties (Luzerne and Columbia Counties) within the region for the potential construction and operation of the BBNPP site which is adjacent to the existing SSES site. The region is defined as an area within a 50 mi (80 km) radius of the site, but excludes the site and vicinity.

More than 89% of the current SSES employees reside in Luzerne and Columbia counties (PPL, 2006). Most land use or population changes would occur in these two counties where the construction activity would occur and where the construction and operation employees would be expected to live. As discussed in Section 2.2.2, the proposed transmission system activities would occur on the existing SSES site property and at existing substations along existing transmission corridors. The addition of BBNPP only requires a new substation and new transmission lines on the BBNPP site to connect the unit to the existing SSES system. The 230 kV transmission lines currently passing through the BBNPP site will be relocated to run to the north of Beach Grove Road in order to provide a buffer from the BBNPP CWS cooling towers and provide additional areas for the location of plant-related structures. An expansion of the existing Susquehanna 500 kV switchyard will be required to accommodate the connection to the new BBNPP switchyard (PPL, 2006).

Road access to SSES is via U.S. Route 11, a two-lane paved road with a northeast southwest orientation (Figure 2.1-2 and Figure 2.1-3). SSES lies to the west of U.S. Route 11 and the Susquehanna River. Approximately 4 mi (6.4 km) north of SSES, U.S. Route 11 intersects with State Route (SR) 239, which travels in a northwest-southeast direction. East of this intersection, SR 239 crosses the Susquehanna River.

Several miles southwest of SSES, U.S. Route 11 intersects with SR 93. East of this intersection, SR 93 crosses the Susquehanna River. East of the intersection of SR 93 and the Susquehanna River, SR 93 intersects SR 339, which has a northeast-southwest orientation. Five to ten miles (8 to 16 km) south of SSES, SRs 93 and 339 intersect with Interstate 80, which has an east to west orientation. Five to ten miles southeast of SSES, Interstate 80 intersects with Interstate 81, which has a northeast-southwest orientation.

Employees traveling from the north or northwest of SSES would use SR 239 and U.S. Route 11 to reach the station. Employees traveling from the northeast would use U.S. Route 11. Employees traveling from the south or southwest of SSES could use varying combinations of the following roads to reach the station: Interstate 80, SR 339, SR 93, and U.S. Route 11. Employees traveling from the east and southeast could use SR 239, Interstates 80 and 81, SR 93, and U.S. Route 11. When nearing SSES, all employees must use U.S. Route 11. (PPL, 2006)

Major land-based transportation routes and utility routes within the region are depicted in Figure 2.2-2 and Figure 2.2-5. An existing gas pipeline is shown on Figure 2.2-2. (USGS, 1999)

Because of the location of BBNPP, the potential land use impacts would be greatest in Luzerne County. Potential population impacts would be greatest in Luzerne County and Columbia County as discussed earlier in this section. It is expected that the future potential employee relocation would likely follow the same trend. Therefore, this section excludes discussion of the 50 mi (80 km) region and focuses primarily on the two counties within the region. Table 2.2-7 and Table 2.2-8 indicate six land use classifications for land in Luzerne County and Columbia County. (USGS, 1999)

The three classifications of barren, wetlands and water together account for 6% and 2% of total county lands for Luzerne and Columbia Counties, respectively. Urban or built-up lands occupy little of both counties' land (Luzerne County 11% and Columbia County 7%). The majority of each county is dominated by forest and agricultural lands. A combined total of 82% of Luzerne County's land use and 91% of Columbia County's land use fall within these two categories.

Major trust lands in the region are summarized in Table 2.2-9 (TCF, 2004). While there are no known trust holdings in Columbia County, trust holdings within Luzerne County generally consist of several small holdings instead of large individual tracts of land. The known trust lands within Luzerne County are controlled by a mix of private owners and the North Branch Land Trust. These eight trust lands occupy 1,913 ac (774 ha). (TCF, 2004)

County and local parks within the 50 mi (80 km) region are summarized in Table 2.2-10 (PCS, 1998). There are 255 known county and local parks within the region. Two of these areas (Moon Lake and Seven Tubbs Nature Area) are located in Luzerne County and account for 1,386 ac (561 ha) of the lands accessible to the public. Two more of these areas (Twin Bridges and Briar Creek) are located within Columbia County and account for 139 ac (56 ha) of publicly accessible land. (PCS, 1998)

State controlled lands within the region mainly comprise State Parks, Game Lands, and Forests. These areas are shown in Figure 2.2-7 and are summarized in Table 2.2-11, Table 2.2-12, and Table 2.2-13 respectively. Although no state parks fall solely within Columbia County, it does share one of Luzerne County's six state parks (Theta Lands, Fish Commission Lands, Frances Slocum, Lehigh Gorge Nescopeck, and Ricketts Glen) which provide a total of 39,065 ac (15,808 ha) to the general public (DCNR, 2008). Five State Game Lands fall with the boundary of Columbia County, adding 71, 404 ac (28,896 ha) to public land use while Luzerne County provides the public with 12 game lands totaling 106,211 ac (42,982 ha) (PGC, 2006). There are two state forests within the 50 mi (80 km) region falling within Luzerne and Columbia Counties. Luzerne County holds the Lackawanna State Forest 13,142 ac (5,318 ha) and Columbia holds the Weiser State Forest 28,736 ac (11,629 ha) within its boundaries. (DCNR, 2006a) (DCNR, 2008) (PGC, 2006)

Columbia County provides one of eight Wild/Natural Areas within the 50 mi (80 km) region. The Jakey Hollow Natural Area occupies 51 ac (21 ha) of the county's lands and provides recreation and outdoor activities for the surrounding public (DCNR, 2006b). The Wild/Natural areas are shown in Figure 2.2-7 and are summarized in Table 2.2-14.

2.2.4 References

DCNR, 2006a. PA Department of Conservation and Natural Resources, Bureau of Forestry, State Forest Lands, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=dcnr_stateforestlands_2006.xml&dataset=263, Date accessed: March 15, 2008.

DCNR, 2006b. PA Department of Conservation and Natural Resources, Bureau of Forestry, Wild and Natural Areas, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=dcnr_wildnaturalareas.xml&dataset=932, Date accessed: March 15, 2008.

DCNR, 2008. PA Department of Conservation and Natural Resources, Bureau of State Parks, Boundaries of State Parks in Pennsylvania, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=dcnr_stateparkbound_2008.xml&dataset=114, Date accessed: March 15, 2008.

NBLT, 2008. North Branch Land Trust, Geographic Focus, Website: http://www.nblt.org/projects.html, Date accessed, March 18, 2008.

PCS, 1998. Pennsylvania Conservation Stewardship, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=gapstewardship1999.xml&dataset=20, Date accessed, March 16, 2008.

PGC, 2006. Pennsylvania Game Commission, State Game Lands, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=PGC_StateGamelands2007.xml&dataset=86, Date accessed, March 15, 2008.

PJM, 2008. PJM Generation Interconnection R01/R02 Susquehanna 1600 MW Impact Study Restudy, PJM Interconnection, Report Number DMS #500623, September 2008.

PPL, 1972. Pennsylvania Power and Light Company, Susquehanna Steam Electric Station, Applicant's Environmental Report, Revised, July 1972.

PPL, 2006. PPL Susquehanna, LLC, Appendix E. Applicant's Environmental Report - Operating License Renewal Stage, Susquehanna Steam Electric Station, September 2006.

Salem, 2011. 2011 Zoning Map, Salem Township, Luzerne County, Pennsylvania, Revised by Pennoni Associates, Inc., February 8, 2011.

TCF, 2004. The Conservation Fund, Protected Lands Inventory, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=PA_PLI_NPF_Private.xml&dataset=885, Date accessed, March 15, 2008.

USDA, 2002. County Summary Highlights: 2002, U.S. Department of Agriculture, Website: http:www.nass.usda.gov/census/census02/volume2/pa/st42_2_2_001_001.pdf, Date accessed: March15, 2008.

USDA, 2007. County Summary Highlights: 2007, U. S. Department of Agriculture, Website:http://www.agcensus.usda.gov/Publications/2007/Full_Report/Volume_1,_Chapter_1_State_L evel/Pennsylvania/index.asp, Date accessed: March 30, 2012.

USGS, 1999. Land Cover Data Set, U.S. Geological Survey, Website: http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=nlcd_pa_tiff_alb.xml&dataset=339, Date accessed, March 15, 2008.

USGS, 2008. U.S. Geological Survey (USGS), Land Use and Land Cover Data, LULC Categories, Website: http://www.webgis.com/lulc_data/9_app.html, Date accessed, March 15, 2008.

Table 2.2-1— Land Use Categories within BBNPP Project Boundary: Pre- and Post-Construction

Land Use Category[1]	Pre-Construction			Post-Construction		
	Acres*	Hectares*	Percent of Total	Acres*	Hectares*	Percent of Total
Urban or Built-up	220.8	89.4	10.7	859.6	347.9	41.8
Barren	21.5	8.7	1.0	19.2	7.8	0.9
Wetlands [2]	159.0	64.4	7.7	157.6	63.8	7.7
Water	71.9	29.1	3.5	71.8	29.1	3.5
Forest	1141.7	462.0	55.6	730.4	295.6	35.5
Agricultural	440.0	178.1	21.4	216.3	87.5	10.5
Total*	2054.9	831.6	100.0	2054.9	831.6	100.0

* Values and totals presented may differ slightly due to round-off methodology.
[1] Values represent mapped USGS land categories (USGS, 2008). Table 4.3-1 presents site-specific values from in-field studies completed for BBNPP.

[2] A 0.15 acre wetland not subject to federal jurisdiction is included in the calculations of total pre- and post-construction land cover type.

Table 2.2-2— Land Use Categories within 6 mi (10 km) Vicinity

Land Use Category	Acres	Hectares	Percent of Total
Urban or Built-up	6,411	2,594	9
Barren	455	184	<1
Wetlands	902	365	1
Water	2,468	999	3
Forest	47,419	19,190	66
Agricultural	14,727	5,960	20
Total	72,382	29,292	100

Table 2.2-3— State Controlled Lands within 6 mi (10 km) Vicinity

County	Type	Name	Acres	Hectares
Columbia	State Game Land	SGL No. 55	2,511	1,016
Luzerne	State Game Land	SGL No. 260	3,087	1,249
Luzerne	State Preserve	Theta Lands	109	44

Table 2.2-4— Trust Land within 6 mi (10 km) Vicinity

Trust Land	Owner	County	Acres	Hectares
North Branch Land Trust Property	Privately Owned Conservancy	Luzerne	49	20
North Branch Land Trust Property	Privately Owned Conservancy	Luzerne	88	35

Table 2.2-5— Land Use Categories within 50 mi (80 km) Region

Land Use Category	Acres	Hectares	Percent of total
Urban/Built-up	468,132	189,446	9
Barren	68,592	27,758	1
Wetlands	83,797	33,911	2
Water	84,026	34,004	2
Forest	3,279,101	1,327,005	65
Agricultural	1,042,837	422,021	21
Total	5,026,484	2,034,146	100

Table 2.2-6— Regional Agricultural Products and Yields (2007)

County	Barley (Bushels)	Corn (Bushels)	Soybean (Bushels)	Wheat (Bushels)	Vegetables, Melons, Potatoes (Acres)	Hay (Tons)	Poultry[1] (Head)	Cattle[1] (Head)
Bradford	1,251	993,452	24,895	98,885	192	118,099	2,886	45,622
Berks	275,334	6,510,218	1,134,237	583,555	1,132	97,807	1,860,472	66,950
Carbon	6,000	133,541	10,613	4,494	346	10,977	1,236	1,087
Columbia	8,378	2,543,591	336,431	275,330	4,107	25,369	-	9,119
Dauphin	69,599	1,890,936	405,077	196,229	334	37,449	788,324	14,968
Lackawanna	-	101,075	-	-	841	15,686	1,304	3,687
Lebanon	185,989	3,759,992	681,745	315,166	817	39,228	1,504,824	56,793
Lehigh	21,398	3,672,868	654,464	449,310	1,674	24,527	22,948	3,573
Luzerne	-	1,000,534	101,875	69,251	1,471	15,808	7,755	4,996
Lycoming	2,008	2,002,767	253,069	79,039	1,166	45,934	-	19,531
Monroe	-	340,004	47,920	15,996	246	7,475	1,058	1,002
Montour	6,718	589,673	148,612	61,856	231	12,446	-	7,680
Northampton	13,533	3,189,508	511,220	190,094	561	34,050	3,010	6,327
Northumberland	90,352	3,955,720	673,653	206,903	1,549	24,454	131,286	20,995
Pike	-	-	-	-	-	-	234	174
Snyder	17,159	1,096,618	241,023	72,609	1,221	30,302	300,957	25,564
Schuylkill	27,571	1,956,586	278,273	233,654	2,756	34,832	1,651,628	12,011
Sullivan	-	167,888	-	-	35	14,415	899	3,906
Susquehanna	-	124,856	-	-	90	79,552	3,463	29,555
Union	18,925	1,007,912	296,403	118,674	383	24,427	326,185	21,517
Wayne	-	-	-	-	137	40,687	2,651	12,446
Wyoming	-	318,041	-	-	430	28,981	1,511	5,909

Table 2.2-7— Land Use Categories within Luzerne County

Land Use Category	Acres	Hectares	Percent of Total
Urban or Built-up	65,383	26,459	11
Barren	12,628	5,110	2
Wetlands	12,791	5,176	2
Water	13,968	5,653	2
Forest	410,138	165,977	71
Agricultural	65,573	26,536	12
Total	**580,481**	**234,912**	**100**

Table 2.2-8— Land Use Categories within Columbia County

Land Use Category	Acres	Hectares	Percent of Total
Urban or Built-up	22,010	8,907	7
Barren	2,133	863	1
Wetlands	1,294	524	0
Water	4,082	1,652	1
Forest	194,166	78,576	62
Agricultural	89,770	36,328	29
Total	**313,454**	**126,850**	**100**

Table 2.2-9— Trust Lands within 50 mi (80 km) Region

County	Number of Land Trusts	Total Acres	Total Hectares
Berks	44	3,455	1,398
Carbon	3	9,189	3,719
Lackawanna	19	3,697	1,496
Lebanon	1	173	70
Lehigh	1	15	6
Luzerne			
Trust Land			
Private Owner		312	126
Private Owner		1,248	505
Private Owner		22	9
Private Owner		32	13
Private Owner		106	43
North Branch Land Trust Property		49	20
North Branch Land Trust Property		88	35
North Branch Land Trust Property		57	23
Luzerne Total	8	1,913	774
Lycoming	7	418	169
Monroe	174	5,567	2,253
Schuylkill	2	860	348
Susquehanna	5	1,458	590
Wayne	2	461	187
Wyoming	2	188	76

Table 2.2-10— County and Local Parks within 50 mi (80 km) Region

County	Number Of Parks	Total Acres	Total Hectares
Berks	178	8,629	3,492
Carbon	2	30	12
Columbia			
Twin Bridges		2	1
Briar Creek		137	55
	2	139	56
Dauphin	1	71	29
Lackawanna	4	15	6
Lehigh	39	3,255	1,317
Luzerne			
Moon Lake Park		802	325
Seven Tubbs Nature Area		584	236
Luzerne Total	2	1,386	561
Lycoming	1	430	174
Monroe	5	276	112
Montour	1	5	2
Northampton	20	860	348

Table 2.2-11— State Park Lands within 50 mi (80 km) Region

County	State Park	Acres	Hectares
Carbon	Beltzville	3,559	1,440
Carbon	Hickory Run	14,129	5,718
Lackawanna	Theta Lands	28,312	11,458
Lackawanna	Archbald Pothole	140	57
Lackawanna	Lackawanna	1,416	573
Luzerne	Theta Lands	16,256	6,578
Luzerne	Fish Commission Land	321	130
Luzerne	Frances Slocum	981	397
Luzerne	Lehigh Gorge	5,094	2,061
Luzerne	Nescopeck	3,627	1,468
Luzerne/Columbia	Ricketts Glen	12,786	5,174
Lycoming	Susquehanna	51	21
Monroe	Big Pocono	1,321	535
Monroe	Gouldsboro	2,395	969
Monroe	Tobyhanna	5,502	2,227
Northampton	Jacobsburg	1,032	418
Northumberland	Milton	42	17
Schuylkill	Swatara	3,453	1,397
Schuylkill	Tuscora	1,639	663
Sullivan	Worlds End	716	290
Union	Shikellamy	32	13
Wayne	Theta Lands	1,257	509
Wayne	Varden Conservation Area	346	140

Table 2.2-12— State Game Lands within 50 mi (80 km) Region

County	Number of State Game Lands	Total Acres	Total Hectares
Berks	6	40,858	16,535
Bradford	9	90,247	36,522
Carbon	6	57,061	23,092
Columbia			
SGL No. 329		1,701	688
SGL No. 55		2,470	1,000
SGL No. 58		12,753	5,161
SGL No. 226		4,250	1,720
SGL No. 13		50,229	20,327
Columbia Total	5	71,404	28,896
Dauphin	3	63,532	25,710
Lackawanna	6	58,078	23,503
Lebanon	2	54,317	21,981
Lehigh	3	18,193	7,362
Luzerne			
SGL No. 119		8,235	3,333
SGL No. 207		2,038	825
SGL No. 224		490	198
SGL No. 206		1,515	613
SGL No. 91		17,286	6,995
SGL No. 149		1,987	804
SGL No. 187		8,284	3,352
SGL No. 57		46,155	18,678
SGL No. 260		3,087	1,249
SGL No. 292		615	249
SGL No. 119		8,235	3,333
SGL No. 187		8,284	3,352
Luzerne Total	12	106,211	42,982
Lycoming	8	66,632	26,965
Monroe	8	51,513	20,847
Montour	1	1,220	494
Northampton	1	5,841	2,364
Northumberland	5	12,624	5,109
Schuylkill	17	117,105	47,391
Snyder	2	1,450	587
Sullivan	5	137,518	55,652
Union	3	3,555	1,439
Wayne	3	10,937	4,426
Wyoming	5	200,929	81,313

Table 2.2-13— State Forest Lands within 50 mi (80 km) Region

County	State Forest	Acres	Hectares
Columbia	Weiser	28,736	11,629
Luzerne	Lackawanna	13,142	5,318
Monroe	Delaware	15,786	6,388
Sullivan	Loyalsock	114,494	46,334
Union	Bald Eagle	169,402	68,554
Union	Tiadaghton	37,132	15,027

Table 2.2-14— Wild and Natural Areas within 50 mi (80 km) Region

County	Wild/Natural Area	Acres	Hectares
Columbia	Jakey Hollow Natural Area	51	21
Lackawanna	Spruce Swamp Natural Area	70	28
Lycoming	Devil's Elbow Natural Area	391	158
Lycoming	Mcintyre Wild Area	7,251	2,934
Pike	Pine Lake Natural Area	72	29
Sullivan	Tamarack Run Natural Area	199	81
Sullivan	Kettle Creek Wild Area	1,773	718
Sullivan	Kettle Creek Gorge Natural Area	756	306

Figure 2.2-1— Land Use within the BBNPP Project Boundary

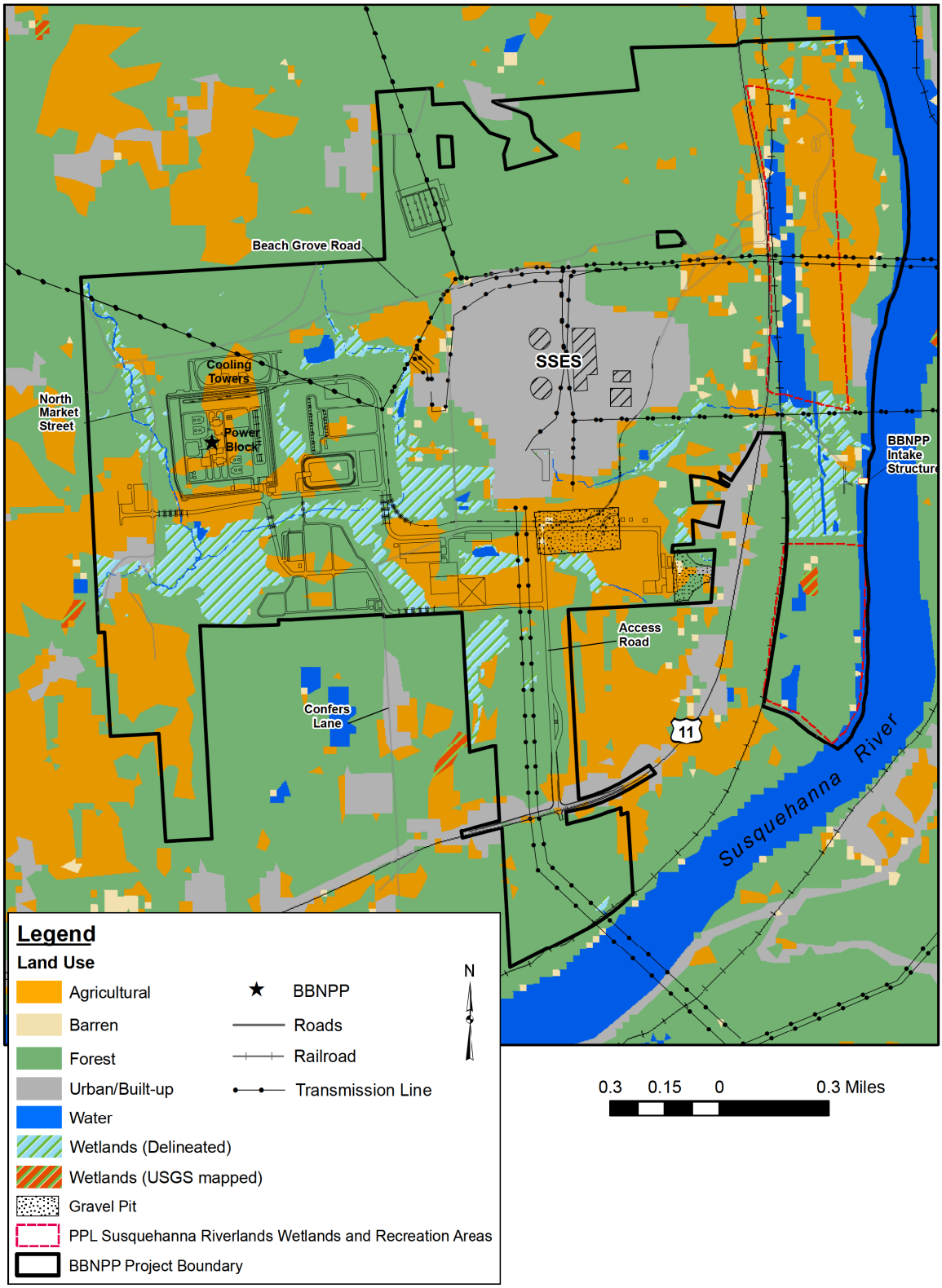


Figure 2.2-2— BBNPP 6 mi (10 km) Land Use

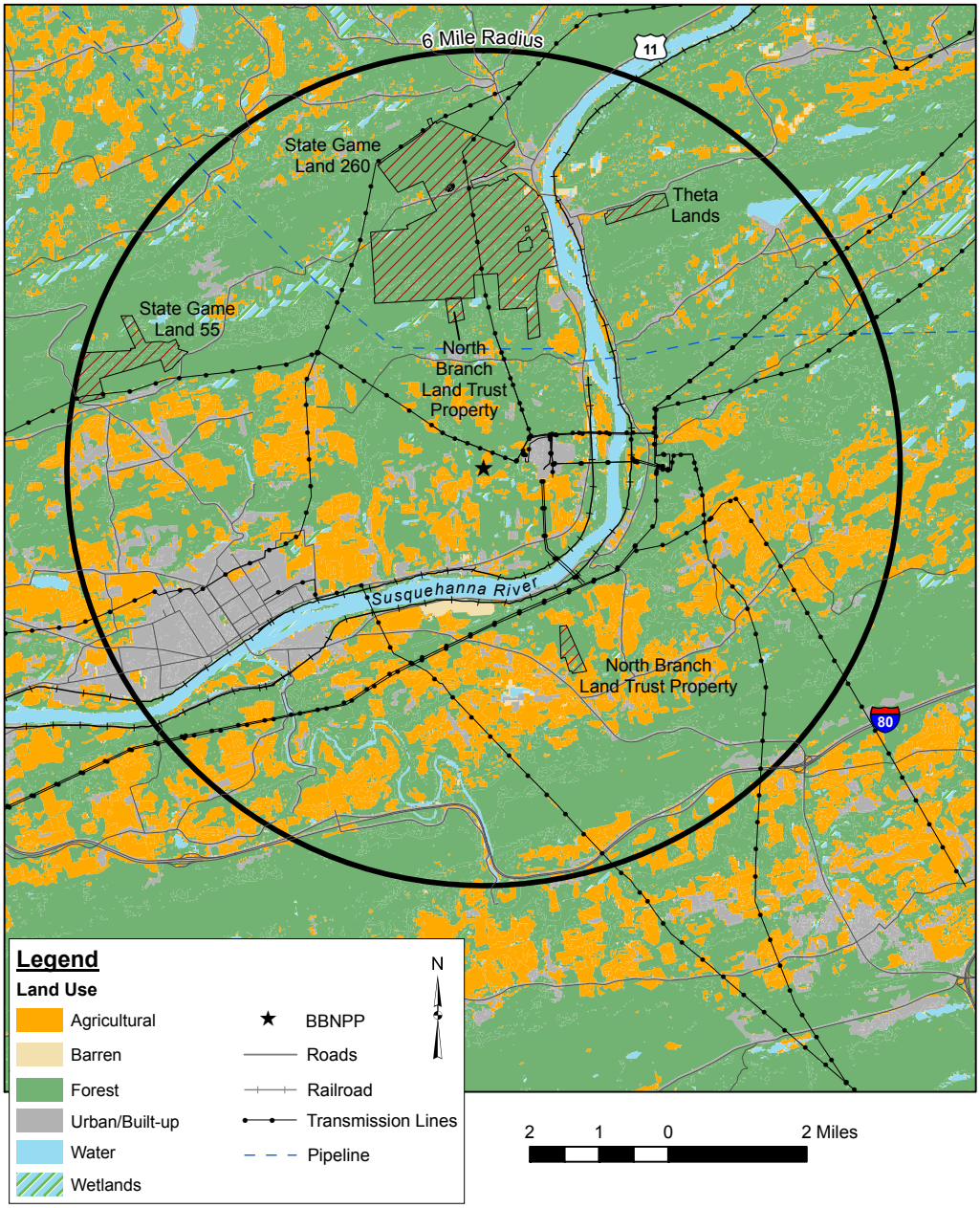


Figure 2.2-3— BBNPP Site Topographic Map

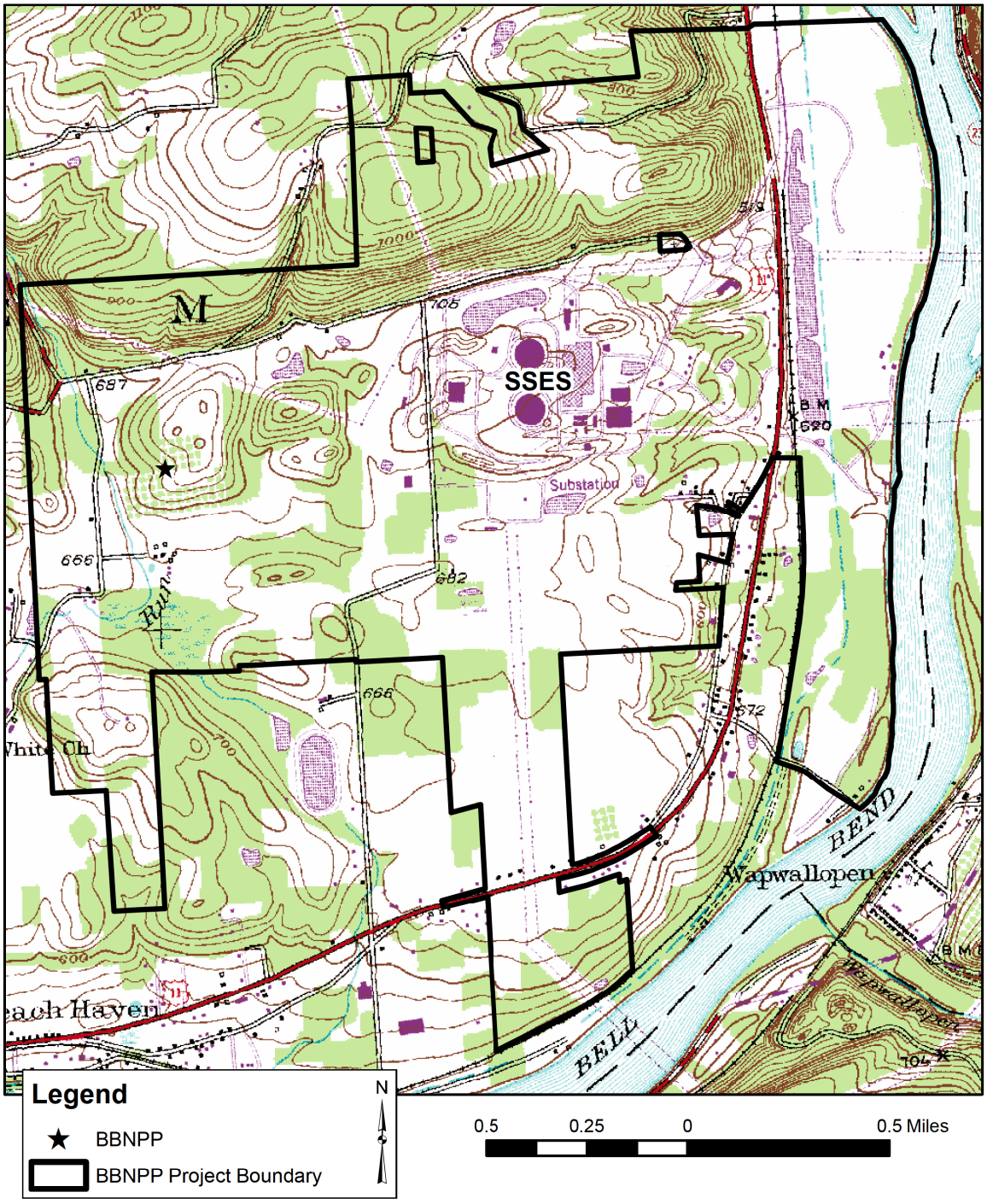
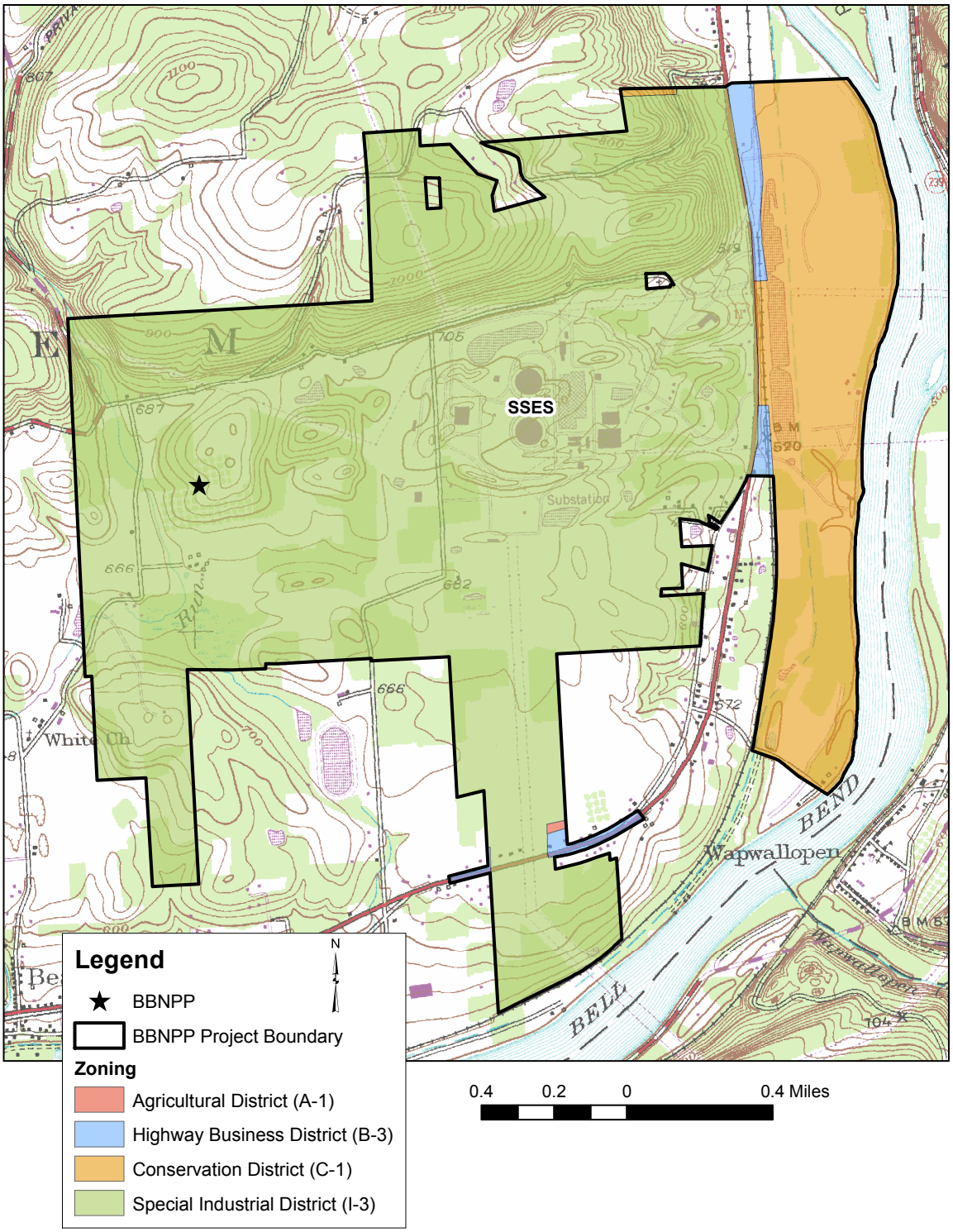


Figure 2.2-4— BBNPP Site Zoning Map



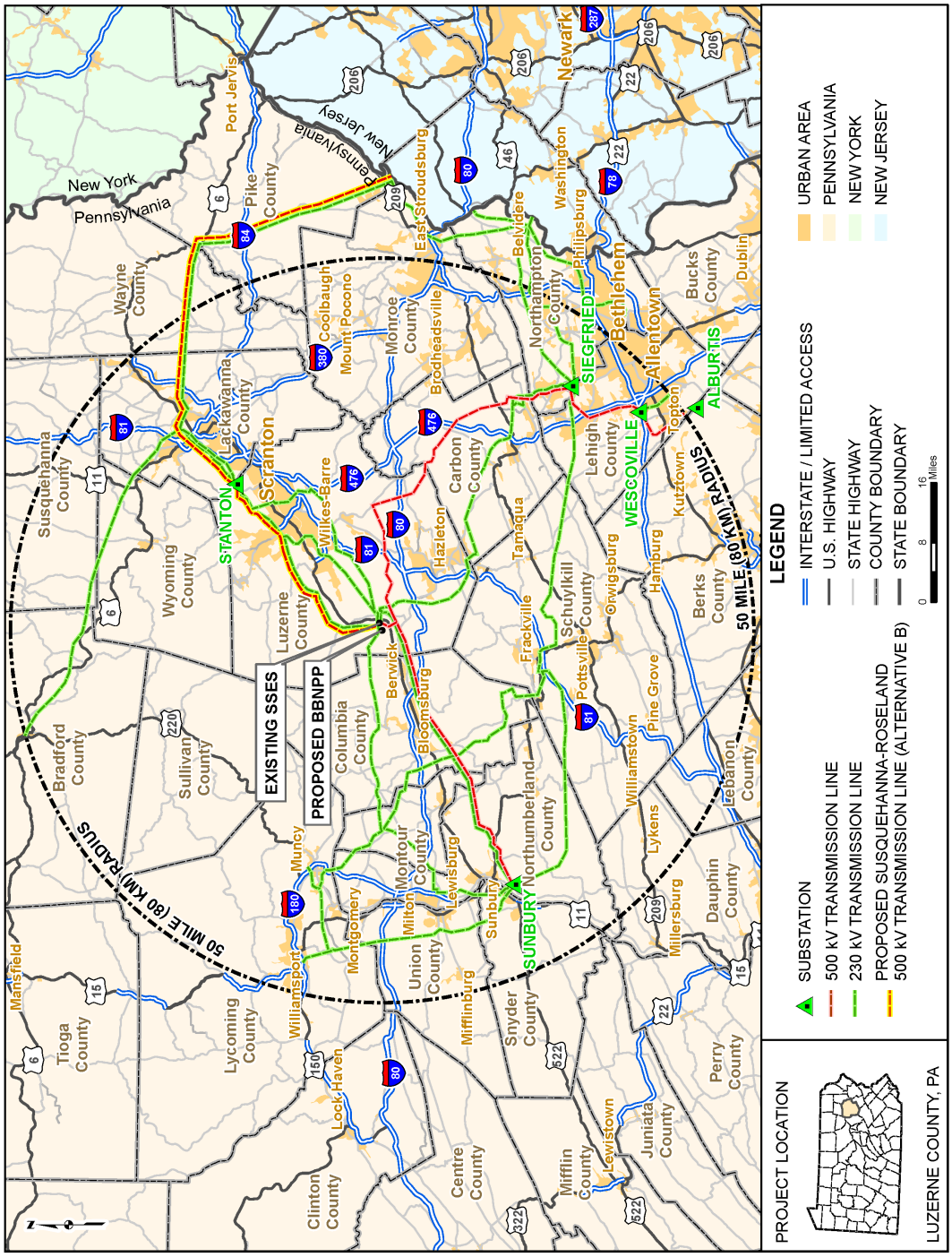


Figure 2.2-5— BBNPP Site 500 kV and 230 kV Regional Circuit Corridors

Figure 2.2-6— BBNPP Land Use within a 50 mi (80 km) Radius

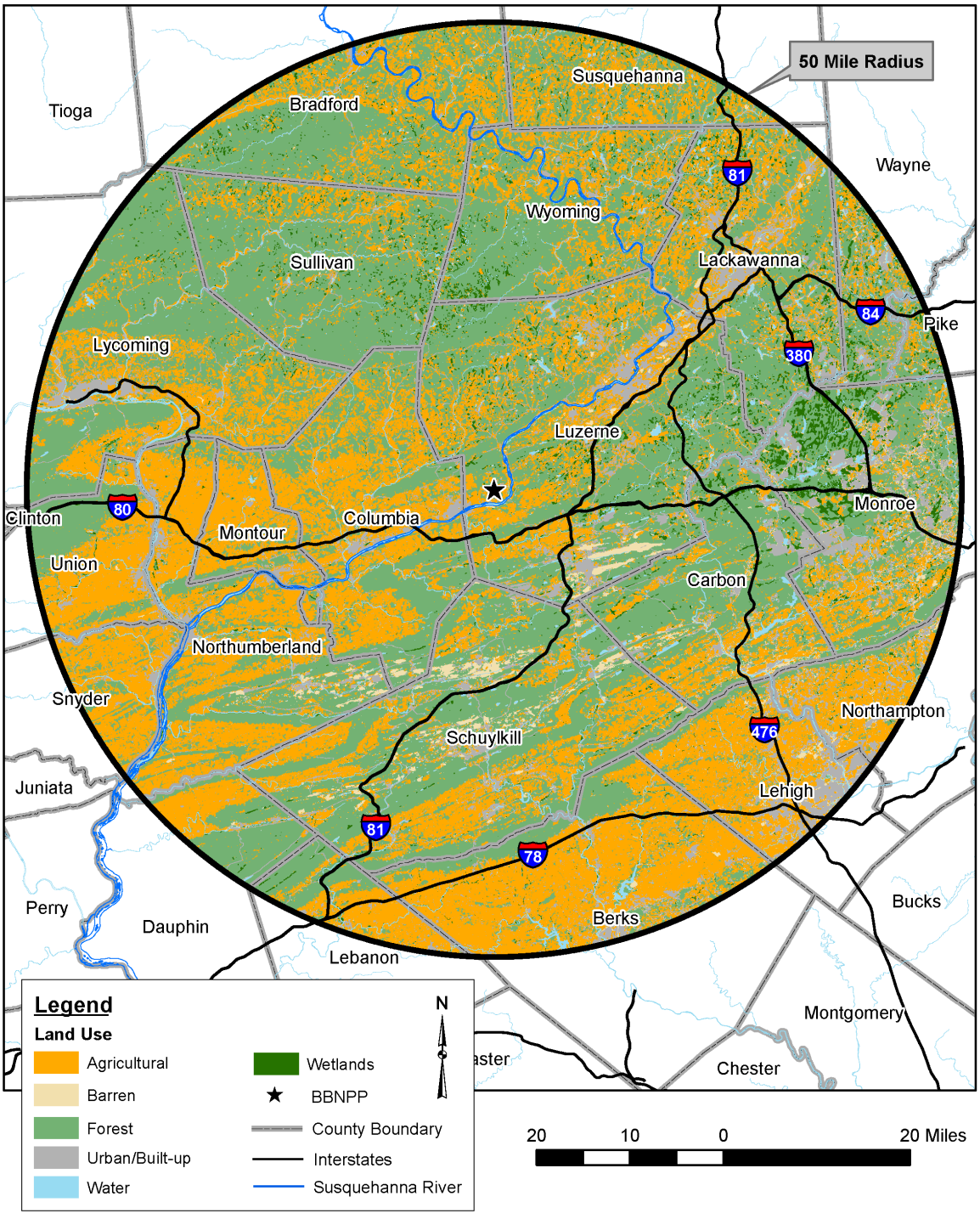
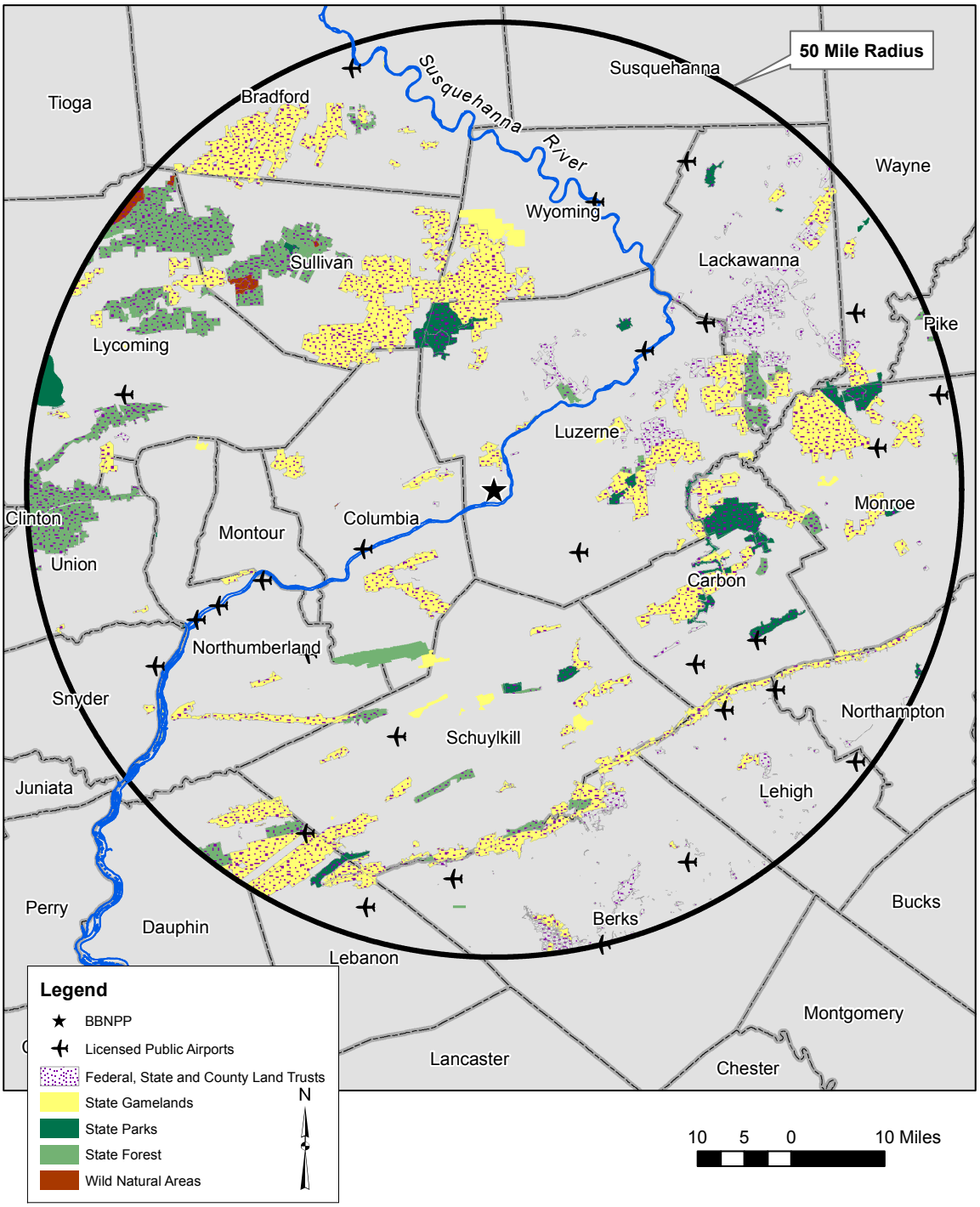


Figure 2.2-7— BBNPP Major Public and Trust Land in 50 mile (80 km) Region



2.3 WATER

2.3.1 Hydrology

This section describes surface water bodies and groundwater aquifers that could affect or be affected by the construction and operation of BBNPP. The site-specific and regional data on the physical and hydrologic characteristics of these water resources are summarized to provide the basic data for an evaluation of impacts on the water bodies, aquifers, human social and economic structures, and aquatic ecosystems of the area.

The BBNPP site is located in Salem Township, Luzerne County, Pennsylvania (PA), on the west side of the North Branch of the Susquehanna River (NBSR) (within the Middle Susquehanna River Sub-basin), as shown on Figure 2.3-1. The BBNPP site is situated in the Walker Run watershed, which has a drainage area of 4.32 mi^2 (11.16 km^2). The BBNPP property is adjacent to Susquehanna Steam Electric Station (SSES) Units 1 and 2, and sits on a relatively flat upland area, approximately 219 ft (66.8 m) above the nominal Susquehanna River water level, as shown in Figure 2.3-2. The BBNPP site is approximately:

- 1.7 mi (2.7 km) north-northeast of the confluence of Walker Run and the NBSR,
- 22 mi (35 km) downstream of Wilkes-Barre, PA,
- 5 mi (8 km) upstream of Berwick, PA, and
- 70 mi (113 km) north-northeast of Harrisburg, PA.

The climate of the site area can be described as a humid, continental, moderate climate, with cool to cold winters and long hot summers.

2.3.1.1 Surface Water Resources

Portions of the BBNPP site area are covered by glacial deposits as the site area was subjected to both glacial and periglacial events during the Quaternary Epoch. Much of the specific plant site is largely devoid of glacial deposits. The overburden is composed predominately of residual soil that formed from weathering of the underlying shale with glacial till occurring in only sparse locations. Devonian bedrock lies beneath the overburden. Erosion and down cutting from the Susquehanna River and its tributary streams have dissected the overburden, leaving many exposed bedrock outcrops throughout the site area. Topographic relief within a 5 mi (8 km) radius around the BBNPP site varies from just under 500 ft (152 m) mean sea level (msl), on the floodplain of the NBSR, to a maximum of approximately 1,560 ft (476 m) msl. Thus, the topographic relief within a 5-mile (8 km) radius is approximately 1,060 ft (323 m).

The NBSR flows from north to south past the SSES, makes a broad, 90 degree angle turn (i.e., Bell Bend) to the west, and flows south of the BBNPP site before reaching Berwick, PA. The proposed BBNPP Intake Structure site is approximately 22 mi (35 km) downstream of Wilkes-Barre, PA and 5 mi (8 km) upstream of Berwick, PA. The NBSR ultimately receives all surface water and groundwater that drains from the BBNPP site.

Two hills extend from east to west along the north side of the BBNPP site, and Walker Run stream runs through the valley that they form (see Figure 2.3-3). Walker Run is a relatively small stream, but is the largest in the immediate vicinity of the BBNPP. Walker Run flows southward along the western side of the BBNPP site, and there is a considerable drop in elevation from the hill tops within the Walker Run watershed to the Susquehanna River. An unnamed tributary to Walker Run shown in Figure 2.3-3 as Unnamed Tributary No. 1 flows

along the eastern and southern sides of the protected area boundary and enters Walker Run on the southwest side of the protected area boundary. A second unnamed tributary shown in Figure 2.3-3 as Unnamed Tributary No. 2 flows southwestward through the BBNPP site and empties into Unnamed Tributary No. 1. The Walker Run watershed (Figure 2.3-3) has a drainage area of 4.32 mi^2 (11.16 km^2). Based on the runoff of these streams, and the proposed site configuration (see Figure 2.3-4) the Walker Run watershed can be divided into eleven sub-basins as illustrated in Figure 2.3-3.

SSES is located approximately 1 mi (1.6 km) from the BBNPP Nuclear Island. Runoff from the SSES flows eastward towards the NBSR and does not enter the Walker Run watershed. The surface grade of the SSES was designed to direct storm water away from the safety related buildings by a system of culverts, surface drainage channels, and underground storm drains eastward towards the NBSR (PPL, 1999b).

The SSES plant grade elevation is approximately 670 ft (204.2 m) msl, which is approximately 49 ft (14.9 m) below the BBNPP plant grade elevation of 719 ft (219.2 m) NAVD 88. Due to its distance from the BBNPP property and the difference in elevation, runoff from the SSES property would not impact BBNPP. Runoff from the BBNPP is directed towards infiltration basins and detention basins located throughout the site (see Figure 2.3-5) which helps preserve the pre-development hydrologic conditions and allow site runoff to discharge naturally to the surrounding wetlands and drain south via Unnamed Tributary No. 1, Unnamed Tributary No. 2, and Walker Run to the NBSR. Therefore, runoff from the BBNPP would not impact the existing SSES. Furthermore, the SSES is located outside of the Walker Run watershed (see Figure 2.3-3). Figure 2.3-4 illustrates the BBNPP site utilization layout, which includes some details pertaining to the site drainage system design as well as the site grading plan. As shown in Figure 2.3-5, site drainage areas were established based on the direction in which surface runoff is routed to each infiltration basin and detention basin. The site grading plan, which is presented in Figure 2.3-5, is supplementary to the site drainage system design. When analyzing the effects of local intense precipitation at the site, the Power Block area (i.e., Basin 10.4; see Figure 2.3-5) was divided into additional areas in order to evaluate ponding effects in the vicinity of the safety-related structures: Basin 10.4A includes the area that is occupied by all safety related structures at elevation 718 ft NAVD 88 based on the site grading plan, Basin 10.4B receives the overflow Basin 10.4A and conveys all runoff away from the site, and Basin 10.4C (which is located immediately west of the safety-related ESWEMS Pond) acts as a catch basin by collecting overflow from the Wetland Area.

The maximum water level due to local intense precipitation, or the local Probable Maximum Precipitation (PMP), at the BBNPP site is estimated and discussed in FSAR Section 2.4.2. The maximum water elevation in the Power Block is 718.36 ft (218.96 m) NAVD 88, which is 1.64 ft (0.50 m) below the reactor complex finished floor grade at elevation 720 ft (219.5 m) NAVD 88.

The estimation of the Probable Maximum Flood (PMF) water levels on Walker Run and tributary creeks located near the proposed site are discussed in detail in FSAR Section 2.4.3. The PMF evaluation of local streams (i.e., Walker Run, Unnamed Tributary No. 1 and Unnamed Tributary No. 2) near the BBNPP site indicate a maximum PMF water surface elevation of 715.03 ft (217.94 m) NAVD 88 along Unnamed Tributary No. 2, which is approximately 3.97 ft (1.21 m) below the proposed plant grade elevation of 719 ft (219.2 m) NAVD 88.

2.3.1.1.1 Hydrological Characteristics

Two hills extend from east to west along the north side of the BBNPP site, and Walker Run flows through the valley that they form (see Figure 2.3-3). The highest ground surface

elevation within the Walker Run watershed is approximately 1, 160 ft (353.6 m) NAVD 88. Surface elevations decrease to the east and south toward the NBSR. Surface runoff from the Walker Run watershed drains via small streams southward toward the NBSR. These streams include one named stream (Walker Run) and two unnamed streams (Unnamed Tributary No. 1 and Unnamed Tributary No. 2); note that Unnamed Tributary No. 3 discharges directly to the NBSR and is located outside of the Walker Run watershed. In addition, several small ponds are located within the Walker Run watershed (see Figure 2.3-3). There is a considerable drop in elevation from the hill tops within the Walker Run watershed to the Susquehanna River. Table 2.3-1 shows the approximate runoff flow path lengths and slopes within the Walker Run watershed sub basins.

2.3.1.1.1.1 The Susquehanna River

The Susquehanna River is approximately 444 mi (715 km) in length. The headwaters of the Susquehanna River are at Cooperstown, Otsego County, located in upstate New York (NY). The Susquehanna River profile is shown in Figure 2.3-6.

The Susquehanna River Basin has a delineated area of 27,510 mi^2 (71,220 km^2) (SRBC, 2008a). The location and extent of the Susquehanna River Basin and its six (6) sub-basins are shown in Figure 2.3-1. More than three-quarters of the Susquehanna River basin lies in Pennsylvania (PADEP, 2008).

In New York, several other headwater tributaries discharge into the Susquehanna River including the Unadilla, the Chenango, the Otselic and the Tioughnioga rivers (PADEP, 2008).

To the west, the Chemung River is formed by the Cohocton, Canisteo, Cowanesque, and Tioga rivers. The Chemung River joins the Susquehanna in Bradford County, PA. In total, 6,275 mi^2 (16,252 km^2) of New York drain to the Susquehanna River (PADEP, 2008).

In Pennsylvania, the Susquehanna River flows south and east before turning southwest above Wilkes-Barre. The branch of the Susquehanna River upstream from Sunbury is unofficially referred to as the North Branch of the Susquehanna River (NBSR). From Sunbury, the river flows south towards Harrisburg, being joined north of Harrisburg by another large tributary, the Juniata. Beyond Harrisburg, the Susquehanna River again turns southeast forming the boundary between York and Lancaster counties before entering Maryland (PADEP, 2008). At its mouth, it empties into the northern end of the Chesapeake Bay at Havre de Grace, Harford County, Maryland (MD), at an elevation of 0 ft (0 m) msl.

The BBNPP is located within the Middle Susquehanna River sub-basin. The middle Susquehanna River Sub-Basin covers an area of 3,771 mi^2 (9,763 km^2).

2.3.1.1.1.2 North Branch of the Susquehanna River (NBSR)

The branch of the Susquehanna River upstream from Sunbury is unofficially referred to as the North Branch of the Susquehanna River (NBSR). The NBSR flows southeast through high, flat-topped plateaus separated by steep-sided valleys. As it flows downstream, the NBSR is joined by the Lackawanna River where it turns southwest and flows towards Sunbury, PA (SRBC, 2008a).

The NBSR flows through 8 counties in Pennsylvania, while receiving drainage from areas within 14 counties in Pennsylvania.

The NBSR is utilized to supply makeup to the Circulating Water System and Raw Water Supply System. It does not serve as the ultimate heat sink. The NBSR is not utilized for any safety-related purposes.

2.3.1.1.1.3 Gaging Stations

There are no gaging stations within the Walker Run watershed. The NBSR gaging stations in Pennsylvania that gage both surface water elevation and water flow, and are located close to the BBNPP site, include the United States Geological Survey (USGS) gaging stations at Wilkes-Barre, PA (Station No. 01536500), and Danville, PA (Station No. 01540500). These stations are located upstream and downstream of the proposed BBNPP Intake Structure, respectively (Figure 2.3-7).

The Wilkes-Barre gaging station is located approximately 24 mi (38.6 km) upstream from the proposed BBNPP site. The drainage area of the NBSR at Wilkes-Barre is approximately 9,960 mi^2 (25,796 km^2) (USGS, 2008b) and the average annual flow calculated from the mean daily streamflow data recorded at the second USGS gaging station for a 108-year period (1899-2006) is 13,641 cubic feet per second (cfs) (386 cubic meters per second (m^3/s)) (USGS, 2008i). At Wilkes-Barre the maximum streamflow was recorded on June 24, 1972 as 345,000 cfs (9,769 m^3/s) (USGS, 2008b) and the daily minimum streamflow was recorded on September 27, 1964 as 532 cfs (15.1 m^3/s) (USGS, 2008p). The maximum recorded flood level was 551.77 ft (168.18 m) NAVD 88 on June 24, 1972 (USGS, 2008b). Temperature data has not been recorded at this station.

Peak annual streamflow recorded at the Wilkes-Barre gaging station is presented in Table 2.3-2. Monthly streamflows and mean, maximum and minimum daily streamflows at Wilkes-Barre, PA, are presented in Table 2.3-3 and in Table 2.3-4 through Table 2.3-6, respectively. Mean streamflow discharges at Wilkes-Barre are also presented in Figure 2.3-8, along with maximum and minimum monthly average values.

The USGS gage at Danville, PA (Station No. 01540500) is located approximately 28 mi (45 km) downstream from the BBNPP Intake Structure, and has been in continuous operation since April 1905 (USGS, 2008a). The drainage area of the NBSR at Danville is approximately 11,200 mi^2 (29,060 km^2) (USGS, 2008a). The average annual flow calculated from the mean daily data recorded during the 102-year period (1905-2006) is 15,483 cfs (438 m^3/s) (USGS, 2008k). At Danville, the maximum streamflow was recorded on June 25, 1972 as 363,000 cfs (10,279 m^3/s) (USGS, 2008a). The daily minimum streamflow was recorded on September 24th, 25th, and 27th, 1964 as 558 cfs (15.8 m^3/s) (USGS, 2008o). The maximum flood level was recorded on June 25, 1972 as 462.69 ft (141.03 m) NAVD 88 (USGS, 2008a).

Peak annual streamflow recorded at the Danville gaging station is presented in Table 2.3-7. Monthly streamflows and mean, maximum and minimum daily streamflows at Danville, PA, are presented in Table 2.3-3 and in Table 2.3-9 through Table 2.3-11, respectively. Mean streamflow discharges at Danville are also presented in Figure 2.3-9 along with maximum and minimum monthly values. Daily average temperature recorded at the Danville gaging station from 1946 to 1976 is presented in Figure 2.3-10.

2.3.1.1.1.4 Walker Run and Unnamed Tributary No. 1

Walker Run, flows towards the south until it converges with the NBSR at approximately River Mile 164. Walker Run collects runoff from the area surrounding the BBNNP site (Figure 2.3-3). The drainage area for the Walker Run watershed is approximately 4.32 mi^2 (11.16 km^2)

(Figure 2.3-3). Walker Run has a difference in elevation of approximately 290 ft (88.4 m) over its entire length with an overall slope of 1.5%.

Unnamed Tributary No. 1 (also known as the East Fork of Walker Run) flows along the eastern and southern sides of the BBNPP protected area boundary and discharges into Walker Run on the southwest side of the protected area boundary (Figure 2.3-3). Unnamed Tributary No. 1 has a drainage area of about 0.68 mi^2 (1.76 km^2) and an approximate length of 2.1 mi (3.4 km) with an overall slope of 3.06%.

2.3.1.1.1.5 Unnamed Tributary No.2

A second unnamed tributary (Unnamed Tributary No. 2) flows southeastward through the BBNPP site and empties into Unnamed Tributary No. 1 (East Fork of Walker Run) (Figure 2.3-3).

2.3.1.1.1.6 Unnamed Tributary No. 3

A third unnamed tributary (Unnamed Tributary No. 3) flows southeastward from the BBNPP site and empties into the NBSR about 0.8 mi (1.3 km) upstream from the Walker Run confluence (Figure 2.3-3). Its drainage area is not part of the Walker Run watershed.

2.3.1.1.1.7 Periods of Peak Streamflow

Hurricane Agnes caused the maximum flood on record within the NBSR. The critical factor affecting the record flooding was the near continuous nature of rainfall during the hurricane. From June 21-25, an average of 6-10 inches (15-25 cm) of rain fell over the Mid-Atlantic region (NOAA, 2008). These high rainfalls produced record flooding, equaling or exceeding flood recurrence intervals of 100 years along portions of the Susquehanna River (NOAA, 2008). Hurricane Agnes generated peak stream flows of 345,000 cfs (9,769 m^3/s) at Wilkes-Barre on June 24th and 363,000 cfs (10,279 m^3/s) at Danville on June 25th (USGS, 2008a) (USGS, 2008b).

On June 25, 1972, a river crest of 517.36 ft (157.7 m) msl was observed near the SSES intake structure (Ecology III, 1986).

The BBNPP plant grade will be at approximately 719 ft (219.2 m) NAVD 88 which is approximately 201.65 ft (61.46 m) above the recorded peak flood elevation of the 1972 flood near the present location of the SSES intake structure.

2.3.1.1.1.8 Bathymetry of the North Branch of the Susquehanna River (NBSR)

The bathymetry of the NBSR near the proposed intake is illustrated in Figure 2.3-11. Streambed elevations in the vicinity of the BBNPP Intake Structure range from 473 to 490 ft (144 to 149 m) NAVD 88 (Figure 2.3-11). The BBNPP Intake Structure will draw water from the NBSR through a 9 ft (3m) opening from 474 to 483 ft (144 to 147 m) NAVD 88; the design basis low water level elevation is 484 ft (148 m) NAVD 88. The bathymetry of the NBSR will not be significantly affected by the intake system.

2.3.1.1.1.9 Floodplain of the North Branch of the Susquehanna River (NBSR)

The elevation of the NBSR 100-year floodplain near the BBNPP Intake Structure is approximately 513 ft (156 m) NGVD 29, or 512.3 ft (156.1 m) NAVD 88 (FEMA, 2008) and the floodplain illustrated in Figure 2.3-14 and Figure 2.3-15, is approximately 0.44 mi (0.71 km) wide in this area. Figure 2.3-15 shows that the predicted Susquehanna River flooding that will occur during a 500-yr recurrence interval extends up to elevation 514 ft (157 m) NGVD 29, or 513.3 ft (156.5 m) NAVD 88, near the BBNPP Intake Structure. Figure 2.3-13 and Figure 2.3-14 show the 100-yr and 500-yr Susquehanna River flooding impacts in the vicinity of the BBNPP

site. The BBNPP plant grade elevation will be 719 ft (219.2 m) NAVD 88 msl, thus the BBNPP site is approximately 206.7 ft (63.0 m) above the NBSR 100-year floodplain and 205.7 ft (62.7 m) above the NBSR 500-yr flood plain.

Figure 2.3-12 and Figure 2.3-13 illustrates the predicted 100-yr and 500-yr flood levels in the Walker Run watershed and the Susquehanna River. The 100-yr and 500-yr flood on Walker Run within the BBNPP site brings water levels to elevation 658 ft (200.6 m) and 659 ft (201 m) NGVD 29, or 657.3 ft (200.3 m) and 658.3 ft (200.6 m) NAVD 88, respectively. The BBNPP plant grade will be at elevation 719 ft (219.2 m) NAVD 88 msl. Thus, flooding from a 100-yr or a 500-yr storm should be at least 61.7 or 60.7 ft (18.8 or 18.5 m) below the plant grade.

2.3.1.1.1.10 Dams and Reservoirs

A total of 492 water control structures are located on tributaries that drain into the Susquehanna River upstream of the site (Figure 2.3-16). However, there are no dams on the main stem of the Susquehanna River upstream from the BBNPP site. Only select upstream dams identified on Figure 2.3-16 were considered in FSAR Section 2.4.4 when evaluating the effects of potential dam failures. All available information in reference to these selected upstream dams, including pool elevations and storage volumes, is presented in Table 2.3-12.

Figure 2.3-16 also shows dams located downstream from BBNPP. The Adam T. Bower Memorial Dam is the world's largest inflatable dam and the first dam immediately downstream from the site of the BBNPP Intake Structure. The Adam T. Bower Memorial Dam was completed in 1970 and creates a 3,060 ac (1,238 ha) lake during summer months (DCNR, 2008). The dam and lake are part of the Shikellamy State Park in Snyder County, PA.

2.3.1.2 Groundwater Resources

This section contains a description of the hydrogeologic conditions present at, and in the vicinity of the BBNPP site and describes the regional and local groundwater resources that could be affected by the construction and operation of BBNPP. The regional and site-specific data on the physical and hydrologic characteristics of these groundwater resources are summarized to provide the basic data for a required evaluation of potential impacts on the aquifers of the area.

2.3.1.2.1 Physiographic and Geologic Setting

The majority of Pennsylvania is divided into three physiographic provinces, the Appalacian Plateaus Province, the Ridge and Valley Province, and the Piedmont Province (Figure 2.3-17). The stratigraphy and structural geology of these provinces is described, in detail, in ER Section 2.6.2

However, a brief discussion of the geology and hydrogeology of these provinces is included below.

2.3.1.2.1.1 Appalachian Plateaus Physiographic Province

The Appalachian Plateaus Province extends over most of West Virginia, more than one-half of Pennsylvania (Figure 2.3-17), and small parts of westernmost Virginia and Maryland. It is bounded on the east and southeast by the Ridge and Valley Province. The Appalachian Plateaus Province is underlain by Cambrian- to Permian-age (i.e., Paleozoic) sedimentary rocks (Trapp, 1997).

The primary Appalachian Plateau aquifers are contained in Paleozoic shale, sandstone, conglomerate, limestone, and coal beds. The water-yielding characteristics of these aquifers

vary significantly due to local variations in lithology and thickness of the geologic units. The most productive aquifers lie within sandstones or conglomerates, however, many limestone formations also yield significant volumes of water (Trapp, 1997). Sand and gravel deposits derived from the overlying glacial outwash, kame terrace, and ground moraines form secondary aquifers (Figure 2.3-18).

2.3.1.2.1.2 Ridge and Valley Physiographic Province

The northeast-southwest trending Ridge and Valley Province extends from West Virginia and Maryland to northeastern Pennsylvania, and covers approximately one quarter of Pennsylvania (Figure 2.3-17). This province is bounded to the north and west by the Appalachian Plateaus Province and to the southeast by the Piedmont Province (Figure 2.3-17). The Ridge and Valley Province is characterized by layered Paleozoic sedimentary rocks that have complex faults and folds. These rocks range in age from Cambrian to Pennsylvanian. Elongated mountain ridges within this province are formed by well-cemented sandstones and conglomerates that are resistant to weathering. These ridges typically are the remnant flanks of breached anticlines. Limestone, dolomite, and shale are more susceptible to weathering and erosion and, as a result, form intervening valleys.

The principal aquifers in the Ridge and Valley Province are carbonate rocks (limestone and dolomite) and sandstones. Most of the more productive aquifers are composed of carbonate rocks, primarily limestone, and are found in valleys. However, the water-yielding characteristics of the carbonate rocks depend upon the degree of fracturing and development of solution cavities in the rock. Sandstone formations also yield large volumes of water where these rocks are well fractured. Generally, the carbonate aquifers are early Paleozoic in age; whereas, the sandstone aquifers are found in late Paleozoic rocks (Trapp, 1997).

Similiar to the Appalacian Plateaus Province, the Ridge and Valley Province contains secondary aquifers within the sand and gravel deposits associated with glacial outwash, kame terrace, and ground moraine (Figure 2.3-18).

2.3.1.2.1.3 Piedmont Physiographic Province

The Piedmont Province lies southeast of the Great Valley Section of the Ridge and Valley Province (Figure 2.3-17). The Piedmont Province is approximately 60 miles (97 km) wide in Southeastern Pennsylvania. Elevation in the Piedmont Province ranges between 20 and 1,355 ft (6 to 413 m) msl (DCNR, 2007b) (DCNR, 2007c) (DCNR, 2007d)

In Pennsylvania, the Piedmont Province is divided into the Piedmont Lowland Section, the Gettysburg-Newark Lowland Section, and the Piedmont Upland Section (Figure 2.3-17). The Piedmont Lowland Section consists of broad, moderately dissected valleys separated by broad low hills and is developed primarily on limestone and dolomite rock, which are highly susceptible to karstification (DCNR, 2007b).

The Gettysburg-Newark Lowland Section runs adjacent to the Great Valley Section of the Ridge and Valley Province as shown in Figure 2.3-17. The Gettysburg-Newark Section is characterized by rolling low hills and valleys developed on rocks of fluvial and lacustrine origin (Root, 1999). Sedimentary basins within the section were formed in early Mesozoic crustal rift zones, and contain shale, sandstone, and conglomerate interbedded locally with basaltic lava flows and thin coal beds. In some places, these rocks are intruded by diabase dikes and sills (Trapp, 1997).

The Piedmont Upland Section is underlain primarily by metamorphosed sedimentary, volcanic, and plutonic rocks (Crawford, 1999). Overlying these rocks to the west are metacarbonate rocks of Cambrian and Ordovician age. To the east Mesozoic clastic sedimentary rocks overlie the basement (Crawford, 1999).

Aquifers in the Piedmont Province lie predominantly in the shallow, fractured igneous and metamorphic rocks. In topographically low areas, aquifers also exist within the carbonate rocks and sandstones (Trapp, 1997).

2.3.1.2.2 Regional Hydrogeologic Description

The BBNPP site is located in the Ridge and Valley Province (Figure 2.3-17) on the north limb of the Berwick Anticlinorium, a moderately complex, first-order fold which trends in a northeast-southwest direction and plunges to the east-northeast at 2 to 4 degrees (Inners, 1978) (Figure 2.3-19). Surface bedrock units in the vicinity of the BBNPP site are shown on Figure 2.3-19. A geologic cross section (A-A') oriented perpendicular to the centerline of the anticlinorium is provided in Figure 2.3-20. The Mahantango Formation (Middle Devonian) directly underlies the BBNPP and SSES sites (Figure 2.3-19). Younger formations (e.g., Harrell Shale, Trimmers Rock Formation) crop out north of the BBNPP site, whereas older formations (e.g., Marcellus Formation) are buried beneath the BBNPP site and crop out to the west-southwest along the centerline of the anticlinorium (Figure 2.3-19 and Figure 2.3-20).

The total thickness of Paleozoic sedimentary rocks including sandstone, siltstone, shale, and limestone units, with lesser amounts of coal and conglomerate is approximately 33,000 ft (10,058 m) in the vicinity of the BBNPP site. Groundwater is present in all of the rock formations, including shales and clay shales. The ability of the clastic sedimentary rocks to store and transmit groundwater is affected by the degree of fracturing, the separation (aperture) or open space within the fractures, and the degree of cementation or infilling of the fractures and joints. In the region surrounding the BBNPP site, the rocks are folded, faulted, and fractured within the uppermost 300 ft (91 m). As a result, extensive aquitards are not found.

The BBNPP site is located proximal to the southern most limit of the latest Wisconsinan stage glacier advance in Pennsylvania (Figure 2.3-18). The fractured bedrock is therefore overlain by a variable thickness of glacial till, outwash, colluvium, kame, and kame terrace deposits (Figure 2.3-21 and Figure 2.3-22). These deposits and the underlying formations in the region are discussed below in order of decreasing age.

2.3.1.2.2.1 Glacial Outwash Deposits

Glacial outwash deposits include all of the glacial outwash, kame, kame terrace, till, colluvium, alluvium, and other unconsolidated surficial deposits (Figure 2.3-21 and Figure 2.3-22). Glacial outwash deposits, along with recent alluvium, constitute one of the most permeable aquifers in the BBNPP region (Lohman, 1937) (Hollowell, 1971) (Taylor, 1984) (Williams, 1987). This aquifer, identified as the Glacial Outwash aquifer, is divided into upland aquifers and valley aquifers. The upland aquifers include all of the unconsolidated deposits located above major stream valleys, including the outwash deposits immediately surrounding BBNPP. The valley aquifers include glacial outwash and recent alluvium deposited within the lowland valleys of major streams (e.g., NBSR).

2.3.1.2.2.2 Catskill Formation

In eastern Pennsylvania, the Catskill Formation is approximately 5,400 to 5,600 ft (1,646 to 1,707 m) thick and represents the youngest Paleozoic sedimentary sequence. The Duncannon

Member of the Catskill formation consists of approximately 1,100 ft (335 m) of repetitive, fining-upward cycles of greenish-gray and grayish-red sandstone, siltstone, and shale; each cycle is generally 30 to 65 ft (9 to 20 m) thick (Williams, 1987). This Member forms the steeper southern flank of Lee Mountain (north of the site) and the northern flank of Nescopeck Mountain, which is south of the NBSR (Figure 2.3-19 and Figure 2.3-20). The underlying Sherman Creek Member is approximately 2,500 ft (762 m) thick and consists of interbedded grayish-red shale, siltstone, and sandstone. The Irish Valley Member is the lowermost member of the Catskill formation, is approximately 1,800 to 2,000 ft (549 to 610 m) thick and consists of greenish-gray to gray interbedded shale, siltstone, and sandstone. The Catskill Formation is not present at the BBNPP site, but outcrops approximately 1.3 to 2.9 mi (2.1 to 4.7 km) north of the site (Figure 2.3-19 and Figure 2.3-20).

2.3.1.2.2.3 Trimmers Rock Formation

The Trimmers Rock Formation occurs throughout central and eastern Pennsylvania, but is not present at the BBNPP site. Where present, the Trimmers Rock Formation consists of medium dark gray, very fine to fine-grained sandstone (25 percent), medium to dark gray siltstone and silty shale (60 percent), and medium dark to dark gray, silty clay shale (15 percent) (Inners, 1978). Sandstone occurs predominantly in the upper 2,300 to 2,500 ft (701 to 762 m) in beds 2 in to 5 ft (5 to 152 cm) thick (Inners, 1978). The Trimmers Rock Formation is moderately resistant to erosion, underlies upland terrain of moderate relief, and forms the steep escarpments on the north and south sides of the Susquehanna River Valley (Inners, 1978). The formation thickness is approximately 3,000 ft (914 m) on the north side of the anticlinorium.

2.3.1.2.2.4 Harrell and Mahantango Formations

The Harrell Formation is a dark gray to grayish black clay shale and silty clay shale. It is noncalcareous, locally carbonaceous, pyritic, and frequently jointed. The formation is approximately 120 ft (37 m) thick (Inners, 1978). In the vicinity of BBNPP, it forms an east-west trending swale (located on the south side of Beach Grove Road) along the foot of the ridge formed by the Trimmers Rock Formation.

As previously mentioned, the Mahantango Formation directly underlies the BBNPP site. It is approximately 1,500 ft (457 m) thick and consists primarily of dark gray, silty to very silty claystone. The Tully Member is approximately 50 to 75 ft (15 to 23 m) thick and consists of argillaceous, fine-grained limestone and calcareous clay shale (Inners, 1978). Frequent joints and intense pencil cleavage development causes the claystone to become fragmented upon weathering. The Mahantango Formation has low to moderate resistance to weathering and forms lowland terrain. However, knobs and ridges of moderate relief have formed where more resistant silty and calcareous beds of the Mahantango Formation, (e.g., the Tully Member) crop out (Inners, 1978).

2.3.1.2.2.5 Marcellus Formation

The Marcellus Formation lies at a depth of approximately 1000 to 1,500 ft (300 to 457 m) below ground surface (bgs) at the BBNPP site. It is approximately 350 ft (107 m) thick and consists of dark gray to black clay shale (Inners, 1978). Upper sections of the formation are moderately silty, while the lower sections are noncalcareous to slightly calcareous, pyritic, and carbonaceous. Where it crops, the Marcellus Formation has low resistance to weathering and forms lowlands, but also forms several knobs on the crest of the anticlinorium east of Berwick, Pennsylvania (southwest of BBNPP).

2.3.1.2.2.6 Onondaga and Old Port Formations

The Onondaga Formation immediately underlies the Marcellus Formation, is approximately 175 ft (53 m) thick and consists of medium dark gray, calcareous shale and gray argillaceous, fine-grained limestone (Inners, 1978). It is underlain, in turn, by the Old Port Formation which is 100 to 150 ft (30 to 46 m) thick. It consists of dark gray, argillaceous, fine-grained limestone; medium to dark gray, calcareous clay shale; and medium gray, silty, cherty, fine-grained limestone (in descending stratigraphic order). Cleavage within the Old Port formation is moderately well developed.

2.3.1.2.2.7 Keyser and Tonoloway Formations

The Keyser and Tonoloway formations comprise the primary carbonate aquifers in the BBNPP area (Inners, 1998). The Keyser Formation is composed of gray to bluish gray, thin- to thick-bedded limestone. The limestone is, in part, argillaceous and dolomitic. The Tonoloway Formation consists of laminated, gray to dark gray limestone. Dolostone occurs in the lower section of the formation.

2.3.1.2.2.8 Water Yielding Characteristics of the Geologic Materials

Domestic and non-domestic wells have been installed in each of the aforementioned geologic formations in the BBNPP site region. Large variations in hydraulic properties and well yields exist within each of the formations (and between formations). In general, hydraulic properties and well yields within the rock formations are dependent upon the frequency of fracturing, size of the fracture openings, and the degree of fracture cementation.

Table 2.3-13 and Table 2.3-14 present data for wells located within the NBSR Basin in Pennsylvania (Taylor, 1984). Wells screened in alluvium and glacial outwash deposits generally have the highest values of yield and specific capacity, which implies that the hydraulic conductivity of this aquifer (i.e., Glacial Outwash aquifer) is higher than the underlying rock units. As shown on Table 2.3-14, 25 percent of the nondomestic wells screened in alluvium and/or glacial deposits can yield more than 500 gpm (1,893 lpm).

Well yield and specific capacity of wells screened in the Lower Devonian Onondaga, Old Port, Keyser, and Tonoloway formations are relatively high and, in some cases, approach those of the alluvium and glacial deposits (Table 2.3-14). Dissolution along fractures, joints, and bedding planes has enlarged openings within these formations, thereby creating a greater number of water-producing zones in which to transmit groundwater more efficiently. Yield and specific capacity of wells screened in the Mahantango and Marcellus formations are moderately high with 25 percent of the measured well yields exceeding 175 gpm (662 lpm) (Table 2.3-14). The Catskill and Trimmers Rock formations have relatively low yields.

Table 2.3-15 lists specific capacities for wells in an area that includes the BBNPP site (Berwick-Bloomsburg-Danville Area). For this data set, the median and 75th-quartile specific capacities for the alluvium and glacial outwash deposits were again the highest, followed by the Lower Devonian formations (i.e., the Onondaga, Old Port, Keyser, and Tonoloway formations).

When the yield and specific capacity data are evaluated based on lithologic characteristics, the wells screened in sand and gravel (e.g., alluvium, glacial outwash, and kame deposits) and carbonate rocks generally have the highest values of yield and specific capacity (Table 2.3-16). Figure 2.3-23 shows the general relationships between well yield and lithology. This figure

demonstrates the high well yield associates with carbonate rocks. Shale has moderate to low well yield and specific capacity, and is therefore not classified as an aquitard in this report.

Figure 2.3-24 demonstrates the relationship between well yield area and topographic setting. The wells located in the valley have a greater yield than the wells located on ridges and hilltops. This relationship is explained by the presence of carbonate rocks and permeable sand and gravel deposits at shallow depths in the valley bottoms while the ridges are generally capped by more resistant sandstones and siltstones.

In the Berwick area, the size and frequency of water-bearing zones decreases with depth, as the confining pressure increases resulting in smaller fractures (Williams, 1987) (Figure 2.3-25). Therefore, the hydraulic conductivities of all rock formations are expected to decrease with increasing depth.

2.3.1.2.2.9 Precipitation, Water Budgets, and Groundwater Recharge

The annual precipitation amount within the NBSR Basin is highly variable, spatially and temporally. A contour map showing the distribution of average annual precipitation for the basin for the period of 1941 to 1970 is presented in Figure 2.3-26. Based on this figure, the average annual precipitation for the BBNPP site was approximately 38 to 39 in (97 to 99 cm). Figure 2.3-27 presents the frequency distribution of annual precipitation at two stations in the southern part of the NBSR Basin between 1931 and 1980. The total annual precipitation varied from approximately 25 to 56 in (64 to 142 cm).

Water budgets for three drainage basins in the NBSR Basin (Towanda Creek Basin, Tunkhannock Creek Basin, Wapwallopen Creek Basin) (Figure 2.3-28) have been evaluated using data from a 20-year span (1961 to 1980) (Taylor, 1984). Towanda Creek and Tunkhannock Creek basins are both located in the Appalachian Plateaus Province; whereas, the Wapwallopen Creek Basin is located in the Ridge and Valley Province approximately 2 mi (3.2 km) southeast of the BBNPP. A summary of the water budget analyses are presented in Table 2.3-17. A high variability in rainfall, surface runoff, and groundwater discharge rate was observed in all three basins, while the rate of evapotranspiration was somewhat less variable. Wapwallopen Creek Basin had the highest average rainfall rate (43.87 in/yr (111.43 cm/yr)), groundwater discharge rate (14.2 in/yr (36.07 cm/yr)), and evapotranspiration rate (23.73 in/yr (60.27 cm/yr)) (Table 2.3-17). However, the Wapwallopen Creek Basin had the lowest rate of surface runoff (5.94 in/yr (15.09 cm/yr)) (Table 2.3-17).

Groundwater recharge rates per unit area were also calculated based on the total area of each watershed (Taylor, 1984). Annual groundwater recharge rates for Wapwallopen Creek Basin ranged from 218 to 721 gpm/mi^2 (319 to 1,054 lpm/km^2) over 20 years, and averaged 469 gpm/mi^2 (685 lpm/km^2). Two other small drainage basins west of BBNPP were analyzed (East Branch of Chillisquaque and Fishing Creek) (Williams, 1987) and similar hydrologic conditions were found. Data presented in Table 2.3-17 compares a dry period (1963 -1966) and a wet period (1972 - 1975) for these two basins (Williams, 1987). The annual evapotranspiration (ET) rate does not vary significantly between the two periods; however, surface water runoff and groundwater discharge did decline significantly during the dry period.

2.3.1.2.2.10 Fluctuations in Groundwater Elevations

In general, groundwater elevations vary as a function of recharge. Generally, during periods of low rainfall and high ET, groundwater continues to flow toward streams, ponds, wetlands, wells, and other points of discharge, resulting in a gradual decline in groundwater levels. In

eastern Pennsylvania, groundwater elevations typically decline in summer and fall, when precipitation rates are at their annual low and ET rates are highest.

The effective porosity of the aquifer also affects groundwater elevation. Aquifers with greater effective porosities store more water. As a result, stresses on these aquifers (e.g., increased ET, groundwater abstraction) produce smaller effect on the groundwater elevations. Bedrock aquifers with low primary porosity and permeability store less groundwater. As a result, low recharge rates or high rates of groundwater removal will cause rapid, greater magnitude fluctuations of water levels within these aquifers.

The USGS monitors groundwater elevations in select monitoring wells across Pennsylvania. Hydrographs of two monitoring wells screened in the glacial outwash and two monitoring wells screened in the Catskill Formation are presented in Figure 2.3-29 and Figure 2.3-30 (USGS, 2008j) (USGS, 2008q) (USGS, 2008r) (USGS, 2008s). Annual fluctuations of groundwater levels in the glacial outwash were approximately 8 to 14 ft (2.4 to 4.3 m) (Figure 2.3-29). In general, the highest groundwater levels in the glacial outwash occurred in the winter and spring months. Annual fluctuations of groundwater levels in the Catskill Formation were approximately 6 to 8 ft (1.8 to 2.4 m) (Figure 2.3-30). Similarly, the highest groundwater levels occurred in the winter and spring months.

2.3.1.2.3 Local and Site-Specific Hydrogeologic Descriptions

At the BBNPP site, ground elevations range between approximately 650 ft (198 m) in the southwest corner of the site (along Walker Run) and approximately 800 ft (244 m) in the vicinity of the Power Block (Figure 2.3-3). North of the site (north of Beach Grove Road), elevations range between approximately 1,100 and approximately 1,150 ft (335 to 351 m) (Figure 2.3-3).

The BBNPP site is located on a series of hills that represent Mahantango Formation bedrock highs. The site is bound to the north, east, west, and south by a series of troughs and notches that likely represent outwash channels that were deeply eroded by glacial meltwater as the Wisconsinan glacier advanced, and were filled by outwash, kame, and moraine deposits as the glacier overrode the site and then retreated.

Geotechnical and hydrogeological investigations have provided information on the geology of the BBNPP site to a depth of 600 ft (183 m) bgs. An initial investigation was performed between 2007 and 2008, which included the installation of 41 groundwater monitoring wells. A second investigation was conducted in 2010 and 2011, following the relocation of the Power Block a distance of approximately 1,000 ft (305 m) to the north. This secondary investigation included the installation of 44 geotechnical borings and an additional ten groundwater observation wells. A detailed description of the geotechnical subsurface investigation, including the locations of all borings installed at the site, is provided in ER Section 2.6.

The initial investigation of the BBNPP included the installation of twenty-six (26) 2 or 4 in (5 or 10 cm) diameter monitoring wells and fifteen (15) 1.0 to 1.5 in (2.5 to 3.8 cm) diameter wells. Table 2.3-18 provides the installation details for the monitoring wells. Of the 41 monitoring wells installed, 14 are screened in the Glacial Outwash aquifer ("A" wells), 19 are screened in Shallow Bedrock aquifer ("B" wells, including MW313C, excluding MW302B and MW307B). Eight are installed in the Deep Bedrock aquifer ("C" wells, including MW302B and MW307B, excluding MW313C). Monitoring wells MW302B and MW307B were originally intended to be "B" wells. However, at these locations the shallow bedrock provided few water-bearing zones.

Hence, these two wells were drilled deeper than originally intended and are now grouped with the "C" wells. The total depth of monitoring well MW313C was originally intended to be 200 ft (61 m) bgs. However, blockage resulted in the bottom portion of the boring being grouted. The well screen of MW313C was set above the grouted section at a depth of 130 ft (40 m) bgs; therefore, this well is grouped with the shallow bedrock "B" wells.

During the secondary investigation, an additional 10 groundwater monitoring wells were installed at the BBNPP site to provide a more detailed characterization of groundwater flow patterns and hydraulic properties in the vicinity of the relocated Power Block. Of the10 additional wells, nine were installed as 4 in (10 cm) diameter Shallow Bedrock aquifer “B” wells, with the remaining well installed as a 4 in (10 cm) diameter Glacial Outwash aquifer “A” well (Table 2.3-18).

The location of all groundwater monitoring wells and/or well clusters installed at the site are presented on Figure 2.3-31 and the location of surface water monitoring stations are presented on Figure 2.3-32. The wells and surface water monitoring gages were distributed to provide an adequate characterization of groundwater levels, subsurface flow directions, and hydraulic gradients beneath the site. A total of 31 monitoring wells were installed at the first 10 drilling locations (MW301-MW310), thereby creating 10 well clusters. Well clusters are a series of wells placed in close lateral proximity, with each well monitoring a different water-bearing interval. Each cluster consists of two or more wells. The well clusters were installed in order to measure vertical differences in hydraulic head, vertical hydraulic gradients, and vertical differences in hydraulic conductivity.

Figure 2.3-33 shows the locations of two hydrogeologic cross sections, which are presented in Figure 2.3-34 and Figure 2.3-35. They extend through the entire BBNPP site and continue south and east, respectively, to the Susquehanna River. These cross sections are based on the geotechnical borings and monitoring wells installed at the BBNPP site, monitoring wells at the SSES, and domestic wells north and south of the BBNPP.

2.3.1.2.3.1 Site Hydrogeology

Glacial Outwash Aquifer

The Glacial Outwash aquifer consists primarily of sand and gravel deposited during the Pleistocene Epoch as previously discussed in Section 2.3.1.2.1. In the vicinity of the BBNPP and SSES, the glacial deposits are 0 to 100 ft (0 to 30 m) thick and are located primarily in the troughs and notches that surround the Mahantango Bedrock upland area (Figure 2.3-36). The greatest saturated thickness of outwash at the BBNPP site (approximately 60 ft (18 m)) occurs within the Northern Trough along Beach Grove Road (at well cluster MW305) and in the Southern Trough (at well cluster MW302) (Figure 2.3-36).

Shallow Bedrock and Deep Bedrock Aquifer

The Shallow and Deep Bedrock aquifers at the BBNPP site are comprised of bedrock shale from the Harrell and Mahantango formations. The topography of the bedrock at the BBNPP site is presented in Figure 2.3-37. The Harrell Shale is approximately 120 ft (37 m) thick, is located along the northern edge of the site, and dips to the north beneath the ridge formed by the Trimmers Rock Formation. Because the Harrell Shale is weaker and less resistant to weathering and erosion, the northern trough has formed where the Harrell Shale crops out. The Mahantango Shale is approximately 1,500 ft (457 m) thick. The uppermost portion of the

formation (Tully Member) is the uppermost bedrock encountered in the vicinity of the Power Block (Figure 2.3-38).

The Harrell and Mahantango shales are similar both lithologically and hydraulically; therefore, they are not treated as separate aquifers. However, this shale bedrock aquifer has been divided into two aquifers (i.e., Shallow Bedrock aquifer, Deep Bedrock aquifer) to determine if the hydraulic properties, the hydraulic potentials, or the groundwater flow directions are different between the shallow and deeper shale bedrock. In other words, the division of "shallow" versus "deep" provides a means to evaluate groundwater flow characteristics in the bedrock in three dimensions, rather than two dimensions. A depth of approximately 175 ft (53 m) bgs has been selected as the division between the Shallow Bedrock aquifer and Deep Bedrock aquifer.

Harrell and Mahantango shales are folded, jointed, and fractured. The degree of fracturing is one of the most important factors that affect the hydraulic conductivity of the Mahantango and Harrell Shales, as discussed in Section 2.3.1.2.3.3. The exact depth to the next formation (Marcellus Shale) is unknown but is believed to be approximately 1,000 to 1,500 ft (300 to 457 m) bgs. Due to this great depth, the hydraulic conductivity of the Marcellus Formation is expected to be much lower than the hydraulic conductivity of the Mahantango Shale. Therefore, the evaluation of the groundwater flow system does not include the Marcellus Shale or older (deeper) formations.

2.3.1.2.3.2 Observation Well Data and Subsurface Pathways

Between November 2007 and September 2008, water levels in all “300” series monitoring wells were measured monthly to characterize seasonal trends in groundwater levels, flow directions, and hydraulic gradients for the BBNPP site. In addition, pressure transducers were installed in six monitoring wells and two surface water monitoring stations between April and September 2008 to evaluate short-term fluctuations in the water levels.

Following relocation of the Power Block, monitoring of the “300” series wells, along with ten additional “400” series wells was re-initiated in May 2010 and continued until April 2011 (Table 2.3-20). Monitoring included the installation of pressure transducers in three “400 series” monitoring wells between July and October 2010, which were used to assess short-term fluctuations in water levels.

The creeks, ponds, and wetlands within the area influence the shallow aquifer systems beneath the site, and vice versa. Thereby, surface water monitoring was conducted at multiple locations around the BBNPP site (Figure 2.3-32). Surface water levels were measured monthly in four ponds and seven stream locations during the initial investigation (Table 2.3-21). During the secondary investigation, surface water levels were monitored in seven stream and two pond locations (Table 2.3-22). Two pond locations were not monitored during the second investigation due to disruption of a stream gage (G6) and alteration a pond (G7) (Figure 2.3-32). Groundwater potentiometric surfaces, hydraulic gradients, and temporal trends are based on all groundwater and surface water data collected at the site between 2007 and 2011.

Groundwater elevation data for the Glacial Outwash aquifer, Shallow Bedrock aquifer, and Deep Bedrock aquifer are presented in Figure 2.3-39, Figure 2.3-40, Figure 2.3-41, respectively. Additionally, groundwater elevation data are presented for each monitoring well cluster (with the exception of monitoring well cluster 308) (Figure 2.3-42 through Figure 2.3-51). Surface

water elevation data are presented on Figure 2.3-52. Pressure transducer data are presented on Figure 2.3-53 and Figure 2.3-54.

Water level data measured from groundwater observation wells and surface staff gages installed at the BBNPP site were used to:

- Develop groundwater potentiometric surface maps,
- Determine groundwater flow directions (horizontal and vertical) and hydraulic gradients,
- Evaluate short-term and seasonal changes in surface water and groundwater elevations and gradients,
- Identify areas of potential groundwater recharge and discharge, and
- Calculate groundwater flow velocities.

Water levels in monitoring well MW311C were very slow to recover following installation and development (Figure 2.3-41). This slow recovery suggests that the well was likely impacted by drilling and installation activities and may not be reliable. Accordingly, the groundwater elevation maps, flow directions, and flow rates presented below do not consider data from this well.

Geotechnical borehole B301 (corresponding to monitoring Well MW301C) was drilled in September 2007, but was left as an open borehole until geophysical testing could be completed. The well (MW301C) was not installed until May 2008. As a result, measurements of water levels in this well did not become available until May 2008 (Figure 2.3-41 and Figure 2.3-42).

Glacial Outwash Aquifer

A strong seasonal influence on groundwater elevations was observed in the Glacial Outwash aquifer during the monitoring periods (Figure 2.3-39). Groundwater elevations were generally lowest in fall months, and gradually increased over the winter months. Peak groundwater elevations were measured between February and May. The highest seasonal variation in groundwater level in the Glacial Outwash aquifer was measured in monitoring well MW309A (10.18 ft (3.10 m)) between a low elevation of 662.13 ft (201.82 m) NAVD 88 in September 2010 and a high elevation of 672.31 ft (204.92 m) NAVD 88 in April 2011 (Table 2.3-20). The lowest seasonal variation was measured in monitoring well MW308A (2.90 ft (0.88 m)) between a high elevation of 657.02 ft (200.26 m) NAVD 88 in March 2008 and a low elevation of 654.12 ft (199.38 m) NAVD 88 in September 2008 (Table 2.3-19).

Surface water monitoring locations are shown on Figure 2.3-32. Water levels at these monitoring locations are assumed to be continuous with the local water table in the glacial outwash. Monthly surface water elevation data for the 2007-2008 and 2010-2011 investigations are presented on Table 2.3-21 and Table 2.3-22, respectively. This data, along with the monthly groundwater levels (Table 2.3-19 and Table 2.3-20), were used to construct seasonal potentiometric surface maps for the Glacial Outwash aquifer for March 2008 and April 2011 (spring), July 2008 and June 2010 (summer), November 2007 and September 2010 (fall), and January 2008 and December 2010 (winter) (Figure 2.3-55 through Figure 2.3-62).

Groundwater levels in the Glacial Outwash aquifer were highest in MW303A. Monitoring well MW303A is located near a surface water and groundwater divide in the northern trough of the Glacial Outwash aquifer (Figure 2.3-55 through Figure 2.3-62). Groundwater in the glacial outwash near this point flows around the raised Mahantango Formation bedrock highs underneath the BBNPP site, either westward toward Walker Run or eastward toward the SSES Spray Pond area. Once in the western trough, groundwater flows south and southwest, following Walker Run. In the eastern trough, groundwater also flows south and southwest, and enters the southern trough (Figure 2.3-55 through Figure 2.3-62).

In the southern trough (i.e., south to southeast of the Power Block area, including monitoring wells MW301A, MW302 well cluster, MW304A MW306A, MW308A, and MW310A), groundwater in the glacial outwash flows from east to west and then southwest (Figure 2.3-55 through Figure 2.3-62). The lowest groundwater elevations in the Glacial Outwash aquifer during the monitoring period were measured in September 2010. In September 2010, the highest groundwater level in the southern trough (667.16 ft (203.35 m)) NAVD 88 was measured in well MW304A (Table 2.3-20). The lowest water level (653.06 ft (199.05 m)) NAVD 88 was measured in MW306A (Table 2.3-20). Thus, a total head loss of 14.10 ft (4.30 m) was measured across the southern trough in September 2010 (Figure 2.3-60). Groundwater elevations in the Glacial Outwash aquifer were at their highest in April 2011. During this period, the highest groundwater level in the southern trough was again measured in MW304A (672.81 ft (205.07 m) NAVD 88 and the lowest level was recorded in Farm Pond (G8) (654.88 ft (199.61 m) NAVD 88 (Table 2.3-20 and Table 2.3-22). Consequently, the total head loss measured across the southern trough was 17.93 ft (5.45 m) NAVD 88.

It should be noted that a ridge of bedrock separates the southern trough from monitoring wells MW307A and MW309A. Groundwater in the Glacial Outwash aquifer in this area belongs to a separate flow system, which flows south and southeast and discharges to Unnamed Tributary No. 2, a separate drainage system from the Walker Run watershed (Figure 2.3-55 through Figure 2.3-62).

Horizontal hydraulic gradients were calculated for three flowpaths in the Glacial Outwash aquifer for March 2008 and April 2011 (spring), July 2008 and June 2010 (summer), November 2007 and September 2010 (fall), and January 2008 and December 2010 (winter) (Table 2.3-23 and Table 2.3-24) . Flowpath G01 originates at monitoring well MW303A and flows westward toward Walker Run (Figure 2.3-55 through Figure 2.3-62). Flowpath G02 originates at monitoring well MW310A and flows to Pond G8 (Figure 2.3-55 through Figure 2.3-62). Flowpath G03 originates at MW305A and flows to the southern trough through the eastern bedrock notch (Figure 2.3-55 through Figure 2.3-62). The largest gradients (1.02E-02 to 2.57E-02) generally occurred in spring (March 2008) when groundwater elevations were high (Table 2.3-23). The lowest gradients (3.20E-03 to 1.95E-02) generally occurred in summer (September 2010) when groundwater elevations were lowest (Table 2.3-24).

The Glacial Outwash aquifer discharges as springs and seeps into Farm Pond (G8), the wetlands along the southern border of the BBNPP site, and into Walker Run. In February 2008, the surface of Johnson's Pond (G6), Beaver Pond (G7), and Unnamed Pond 1 (G9) were all frozen with a layer of 2.0 to 3.0 in (5.0 to 7.6 cm) of ice. However, no ice was present on the surface of Farm Pond (G8), indicating that warm groundwater was discharging into the pond during winter. In addition, Farm Pond (G8) discharges water all year long, even in the extremely dry summer and fall months, which also indicates that this pond is fed by groundwater discharge. As the southern trough approaches Farm Pond (G8) and surface water gaging stations G2 and G13 (Figure 2.3-32), the trough becomes constricted and the glacial

outwash thins considerably. As a consequence, groundwater flowing southeastward is forced to the surface in various locations near Farm Pond (G8) and the wetlands south and southwest of Farm Pond (G8). This area is considered a groundwater discharge area for the Glacial Outwash aquifer.

Shallow Bedrock Aquifer

Groundwater elevations within the Shallow Bedrock aquifer during the initial investigation (2007-2008) are listed in Table 2.3-19. During the second investigation (2010), monthly groundwater levels were measured in both the "300" series and "400" series wells (Table 2.3-20). Variation of groundwater levels versus time in the Shallow Bedrock aquifer demonstrate seasonal variations in groundwater elevations similar to variations encountered in the Glacial Outwash wells (Figure 2.3-39 and Figure 2.3-40). The highest seasonal variation in the Shallow Bedrock aquifer was measured in monitoring well MW404 (15.50 ft (4.72 m)) between April 2011 (709.46 ft (216.24 m) NAVD 88) and September 2010 (693.96 ft (211.52 m) NAVD 88) (Table 2.3-20). The lowest seasonal variation was measured in MW304B (3.24 ft (0.98 m)) between March 2008 (671.56 ft (204.69 m) NAVD 88) and October 2008 (668.32 ft (203.70 m) NAVD 88) (Table 2.3-19).

The groundwater elevation for the Shallow Bedrock aquifer (Table 2.3-19 and Table 2.3-20) were used to develop groundwater potentiometric surface maps for March 2008 and April 2011 (spring), July 2008 and June 2010 (summer), November 2007 and September 2010 (fall), and January 2008 and December 2010 (winter) (Figure 2.3-63 and Figure 2.3-70, respectively). The spatial trends of the Shallow Bedrock aquifer potentiometric surfaces are comparable for each seasonal reconstruction. Groundwater flows radially from a mound located north of monitoring wells MW315B and MW402, east of MW303B and west of MW305B and then southward across the BBNPP site.

Horizontal hydraulic gradients have been calculated for three flowpath segments (SB1, SB2, SB3) in the Shallow Bedrock aquifer (Table 2.3-23 and Table 2.3-24). Together, these three flowline segments represent the range of flow directions and gradients that exist beneath the Power Block and surrounding areas. In general, there is little seasonal variation in the horizontal gradients calculated for each flow pathline. Horizontal gradients at SB1 ranged from 2.08E-02 (September 2010) to 6.75E-02 (April 2011) (Table 2.3-24). The SB2 gradients ranged from 4.00E-02 (November 2007) to 5.79E-02 (June 2010), and the gradients SB3 ranged from 1.97E-02 (January 2008) to 4.83E-02 (September 2010) (Table 2.3-23 and Table 2.3-24).

Deep Bedrock Aquifer

Groundwater elevation data for the Deep Bedrock aquifer are tabulated in Table 2.3-19 and Table 2.3-20. Variation of groundwater levels versus time in the Deep Bedrock aquifer are presented in Figure 2.3-41. As with Shallow Bedrock aquifer and Glacial Outwash aquifer, groundwater elevations measured in the Deep Bedrock aquifer show generally low elevations in fall months followed by gradually increasing levels in winter months. The highest seasonal variation in the Deep Bedrock aquifer was measured in monitoring well MW307B (33.51 ft (10.21 m)) between March 2011 (644.40 ft (196.41 m) NAVD 88) and September 2010 (610.89 ft (186.20 m) NAVD 88) (Table 2.3-20). The lowest seasonal variation for non-flowing conditions was measured in MW306C (2.12 ft (0.65 m)) between March 2008 (657.82 ft (200.50 m) NAVD 88) and November 2007 (655.70 ft (199.86 m) NAVD 88) (Table 2.3-19).

Deep Bedrock aquifer potentiometric surface maps were also developed for March 2008 and April 2011 (spring), July 2008 and June 2010 (summer), November 2007 and September 2010 (fall), and January 2008 and December 2010 (winter) (Figure 2.3-71 through Figure 2.3-78). Potentiometric contours in the Deep Bedrock aquifer generally reflect surface topography. Similar to the Shallow Bedrock aquifer, groundwater elevations are highest in the area north of the BBNPP site and decrease southwest and southeast across the site.

Horizontal hydraulic gradients were calculated for three flowpath segments (DB1, DB2, and DB3) in the Deep Bedrock aquifer (Table 2.3-23 and Table 2.3-24). The points defining each flowpath segment are listed in Table 2.3-23 and the flowpaths are shown on Figure 2.3-71 through Figure 2.3-78. Together, these three flowline segments represent the range of flow directions and gradients that exist beneath the Power Block and surrounding areas. The calculated horizontal gradients in the Deep Bedrock aquifer ranged from 1.46E-02 to 3.17E-02, which are similar the gradients calculated for the Shallow Bedrock aquifer, but slightly higher than the gradients determined for the Glacial Outwash aquifer (Table 2.3-23 and Table 2.3-24). Similar to the Shallow Bedrock aquifer, the Deep Bedrock aquifer shows little seasonal variation in the horizontal gradients for each flow pathline (Figure 2.3-71 through Figure 2.3-78).

Vertical Hydraulic Gradients and Vertical Flow Directions

Vertical hydraulic gradients at the BBNPP site were calculated as the difference in hydraulic head between two wells located in the same cluster but screened in different aquifers, divided by the vertical distance between the midpoint of their screened sections. Potential vertical flow directions (either upward or downward) were then determined based on whether the vertical hydraulic gradients were positive (indicating downward) or negative (indicating upward). However, differences in vertical head do not imply the existence of a continuous or discontinuous aquitard separating two aquifer units; it simply means that vertical flow has the potential to occur. Therefore, the vertical flow directions are considered potential flow directions. Resulting vertical hydraulic gradients and flow directions from the 2007-2008 investigation and the 2010-2011 investigation are presented on Table 2.3-25 and Table 2.3-26, respectively.

Vertical hydraulic gradients between the Glacial Outwash and Shallow Bedrock aquifers were evaluated in seven well clusters (MW301, MW303, MW304, MW305, MW308, MW309, and MW310). During both investigations, vertical hydraulic gradients in four of the well clusters (MW304, MW305, MW308, and MW309) demonstrated downward flow potentials (positive gradients), while vertical hydraulic gradients in the remaining three well clusters (MW301, MW303, and MW310) demonstrated upward flow potential (negative gradients) (Table 2.3-25 and Table 2.3-26). The highest positive vertical gradient calculated between the Glacial Outwash and Shallow Bedrock aquifers (1.4998) occurred in the MW308 well cluster in March 2008, and the highest negative vertical gradient (-0.1722) occurred in the MW310 well cluster in April 2011 (Table 2.3-25 and Table 2.3-26).

Vertical hydraulic gradients between the Shallow Bedrock and Deep Bedrock aquifers were evaluated in three well clusters (MW303, MW304, and MW310). Two well clusters (MW303 and MW304) exhibited downward flow potentials (positive gradients) and one well cluster (MW310) exhibited upward flow potentials (negative gradients). The highest positive gradient (0.1145) occurred at well cluster MW303 in July 2008, and the highest negative gradient (-0.1491) occurred at well cluster MW310 in July 2008 (Table 2.3-25). During the 2010 investigation, the vertical gradients calculated exhibit an upward flow potential in two well

clusters (MW304 and MW310) and a downward flow potential in one well cluster (MW303). In 2010, the highest positive vertical gradient calculated between the Shallow Bedrock and Deep Bedrock aquifers (0.1243) occurred in the MW303 well cluster in May and the highest negative vertical gradient (-0.1671) occurred in the MW310 well cluster in September (Table 2.3-26).

In three well clusters where monitoring wells were not screened in the Shallow Bedrock aquifer (MW302, MW306, MW307), vertical hydraulic gradients were calculated between the Glacial Outwash and Deep Bedrock aquifers. During both investigations, two of the well clusters (MW302 and MW306) exhibited upward flow potentials (negative gradients) while the remaining well cluster (MW307) exhibited downward flow potentials (positive gradients). The highest positive vertical gradient calculated between the Glacial Outwash and Deep Bedrock aquifers (0.3113) occurred in the MW307 well cluster in July 2008, and the highest negative vertical gradient (-0.0499) occurred in the MW302 well cluster in July 2008 (Table 2.3-25).

In general, for the 2007-2008 and 2010-2011 investigations, the greatest potentials for upward flow were calculated at well clusters MW301, MW302, MW303, and MW310. During the initial investigation, artesian pressures were encountered in bedrock wells (MW301B4, MW302B, and MW310C) and a geotechnical boring (B302) at three of these well cluster locations. Artesian pressures were also detected in monitoring wells MW312B and MW313C, located in the wetlands on the south side of the Power Block. Figure 2.3-79 displays the areas where the potential for upward flow from the bedrock exists based on calculated vertical hydraulic gradients and observed artesian pressures. As shown in Figure 2.3-79, there are two areas of suspected upward flow from the bedrock. The first area lies along Beach Grove Road in the northwest corner of the site, and extends to Walker Run. The second area covers a large portion of the southern bedrock trough, including all of the wetlands and part of the ESWEMS pond area. However, upward-flowing groundwater from the bedrock was not visually observed at the BBNPP site. If upward-flow from the bedrock is occurring, it is likely to be discharging into the Glacial Outwash aquifer and dissipating. Furthermore, although vertical gradients suggest some potential for upward groundwater flow, the exact locations of upward flow, the overall rate of the upward flow, and the temporal changes in the upward flow rate are not known.

2.3.1.2.3.3 Hydraulic Properties

During the initial investigation (2007), hydraulic testing consisted of the following:

- Falling head slug tests were conducted on 14 Glacial Outwash aquifer wells, six Shallow Bedrock aquifer wells, and five Deep Bedrock aquifer wells (Table 2.3-27).

- Two pumping tests were performed: one test in the Glacial Outwash aquifer at well cluster MW302 and the other in shale bedrock at well cluster MW301. Each test consisted of a 24-hour pumping period and 12-hour recovery period. For the test performed in the glacial outwash, monitoring well MW302A1 was used as the pumping well and monitoring wells MW302A2, MW302A3, and MW302A4 were used as observation wells. For the test performed in the shale bedrock test, monitoring well MW301B1 was used as the pumping well and monitoring wells MW301B2, MW301B3, and MW301B4 were used as observation wells. Prior to each pumping test, a step-drawdown test was conducted in the pumping wells. Target pumping rates of 60 gpm (227 lpm) and 6 gpm (23 lpm) were selected for wells MW302A1 and MW301B1, respectively, for the extended pumping tests. These pumping rates were determined from the step-drawdown test in order to provide maximum stress on the aquifer without drawing the water levels in the pumping wells below the tops of their screens. Results of the pumping tests are presented in Table 2.3-28.

- Optical and acoustic televiewers were used to observe and quantify the nature, vertical distribution, and orientation of fractures in five open boreholes before monitoring wells were installed. Results of the televiewer surveys for monitoring wells MW301C and MW310C are presented in Figure 2.3-80 through Figure 2.3-85.

- Packer tests were performed on 56 intervals within 5 open-hole bedrock borings, which were later converted into monitoring wells MW301C, MW304C, MW306C, MW310C, and MW313C. Results of the packer tests are presented in Table 2.3-29.

In 2010, additional hydraulic testing was conducted on ten newly installed monitoring wells, following the relocation of the Power Block. Additional testing consisted of the following:

- Both falling and rising head slug tests were conducted on nine shallow bedrock wells and one glacial outwash well. Results from both the 2007 and 2010 investigations are presented in Table 2.3-27.

- Three additional pumping tests were conducted in shallow bedrock wells MW404, MW405 and MW407 in the relocated Power Block area. The duration of pumping in wells MW404, MW405, and MW407 were 8, 9, and 10 hours, respectively. Following pumping, a recovery test of at least 8 hours was conducted for each of the three tests. Observation wells for each of the pumping tests consisted of nearby shallow bedrock wells, including MW405 and MW407 for the pumping test at MW404, MW404 and MW406 for the pumping test at MW405, and MW404 and MW409 for the pumping test at MW407. Step-drawdown tests were performed prior to each pumping test, yielding optimum pumping rates of 11.3, 6.5 and 5.6 gpm (42.7, 24.6, 21.2 lpm) at MW404, MW405, and MW407, respectively. Results of all pumping tests conducted at the site (2007 and 2010) are presented in Table 2.3-28.

- Additional packer tests were conducted on 34 intervals within four open-hole bedrock borings. These borings were later converted to monitoring wells MW401, MW402, MW403, and MW408. Results of the packer tests (2007 and 2010) are presented in Table 2.3-29.

In addition, a large number of slug tests, pumping tests, packer tests, and other tests have been performed previously at the SSES site. The results of these tests are summarized in Table 2.3-30.

Glacial Outwash Aquifer

Slug tests were performed in all 15 monitoring wells screened in the Glacial Outwash aquifer at the BBNPP site. The horizontal hydraulic conductivity (Kh) values calculated from these tests ranged from 3.38E-02 ft/day (1.19E-05 cm/s) in MW307A to 9.63E+01 ft/day (3.40E-02 cm/s) in MW306A (Table 2.3-27). Thus, the Kh values of the Glacial Outwash aquifer span a range of three orders of magnitude. The lowest Kh values were measured in the three wells located on the north side of the site (MW303A, MW305A1, and MW305A2), three wells located on the far southern end of the site (MW307A, MW308A, and MW309A), and MW410, which is located adjacent to the proposed ESWEMS Pumphouse. In these seven wells, the Kh values ranged from 3.38E-02 to 1.51E+01 ft/day (1.19E-05 to 5.33E-03 cm/s). In the other eight glacial outwash wells, which are located within the southern trough, the Kh values ranged from 23.8 to 96.3 ft/day (8.40E-03 to 3.40E-02 cm/s). The overall geometric mean Kh estimated from slug tests conducted within the Glacial Outwash aquifer was 9.84 ft/day (3,47E-03 cm/s)

(Table 2.3-27). For two slug tests performed previously at SSES, Kh values of 1.8 and 6.6 ft/day (6.35E-04 and 2.33E-03 cm/s) were estimated (Table 2.3-30).

The pumping test performed at the MW302 well cluster yielded a Kh estimate (geometric mean) of 186 ft/day (6.57E-02 cm/s)(Table 2.3-28). Six pumping tests performed previously at SSES (Table 2.3-30) yielded Kh estimates that ranged from 3.3 to 200 ft/day (1.16E-03 to 7.06E-02 cm/s). The two SSES pumping tests (Wells C and CPW) that yielded the highest Kh values were based on specific capacity data, and are rough estimates of Kh.

Overall, the MW302 well cluster pumping test yielded a Kh value of 186 ft/day (6.57E-02), which appears to fall within the range of the slug tests, open-end tests, and the pumping tests performed at the SSES. This value is higher than the average and geometric mean of all other tests; however, it was obtained through the use of a 24-hr pumping test, which significantly stressed the aquifer. Therefore, a Kh value of 186 ft/day (6.57E-02 cm/s) has been chosen to represent the Glacial Outwash aquifer.

Based on the pumping test conducted in the Glacial Outwash aquifer at the MW302 well cluster, the median specific yield of the aquifer was determined to be approximately 0.322 (Table 2.3-28). For sand and gravel deposits, the specific yield is nearly the same as effective porosity. For the purpose of flow calculations and modeling, the effective porosity of the Glacial Outwash aquifer is estimated to be 0.322.

Shallow and Deep Bedrock aquifers

The hydraulic properties of the Shallow and the Deep Bedrock (shale) aquifers are presented in this section.

Slug tests were performed on 15 shallow bedrock wells. The Kh values calculated from these tests ranged from 1.39E-01 ft/day (4.89E-05 cm/s) in MW402 to 38.5 ft/day (1.36E-02 cm/s) in MW304B (Table 2.3-27). The overall geometric mean of Kh from slug tests was 1.54 ft/day (5.43E-04 cm/s). This value is approximately 16% of the value determined for the Glacial Outwash aquifer using slug tests.

Slug tests were performed on five deep bedrock wells. The Kh values estimated from these tests ranged from 3.25E-02 ft/day (1.15E-05cm/s) in MW306C to 4.27E+00 ft/day (1.51E-03 cm/s) in MW307B (Table 2.3-27). The overall geometric mean estimate of Kh for the deep bedrock slug test was 3.35E-01 ft/day (1.18E-04 cm/s). This value is approximately one order of magnitude less than the value determined for the Shallow Bedrock aquifer using slug tests (Table 2.3-27).

The 24-hr pumping test performed at the MW301 well cluster (2007 investigation), and the MW404, MW405, and MW407 pumping tests (2010 investigation) yielded a Kh estimate (geometric mean) of 1.50 ft/day (5.30E-04 cm/s)(Table 2.3-28). This value is two orders of magnitude lower than the value determined for the Glacial Outwash aquifer.

A total of 90 packer tests (constant pressure, pump-in tests) were performed in nine open bedrock borings at the BBNPP site. Nearly all of the tests were performed on 12.6 to 23 ft (3.8 to 7 in) rock intervals (Table 2.3-29). Of these tests, 51 were conducted in shallow bedrock, with Kh estimates ranging from less than 1.13E-03 ft/day (4.00E-07 cm/s) to 1.08 ft/day (3.82E-04 cm/s), with a geometric mean estimate of 5.49E-03 ft/day (1.94E-06 cm/s) (Table 2.3-29). In the remaining 39 tests conducted in deep bedrock, Kh estimates ranged from

less than 1.13E-03 ft/day (4.00E-07 cm/s) to 3.34E-01 ft/day (1.18E-04 cm/s), with a geometric mean estimate of 4.30E-03 ft/day (1.52E-06 cm/s) (Table 2.3-29). All zones with an estimated Kh value less than 1.13E-03 ft/day (4.00E-07 cm/s) indicate impermeable rock (Table 2.3-29). The Kh values determined by packer tests were considerably lower than Kh values determined by slug tests and pumping tests.

Over 50 packer tests have been performed in the shale bedrock at the SSES site (PPL, 1999c). These tests yielded Kh values that ranged from 0 to 0.85 ft/day (0 to 3.00E-04 cm/s) (Table 2.3-30). The median value for the 41 tests performed near the railway bridge (northeast of SSES site) was 0.22 ft/day (7.76E-05 cm/s). The Kh values obtained from packer tests conducted at the SSES site were greater than the Kh values obtained from packer tests conducted at the BBNPP site, and generally approached the Kh values estimates for the pumping tests conducted at MW301B1, MW404, MW405, and MW407.

During the 2007 investigation, optical and acoustic televiewers were used to observe and quantify the nature, vertical distribution, and orientation of fractures in five open boreholes before monitoring wells were installed. Results of the televiewer surveys for monitoring wells MW301C and MW310C are presented in Figure 2.3-80 through Figure 2.3-85. The vertical distribution of fractures in MW301C is shown in Figure 2.3-80. Fractures were more frequently encountered in depth intervals where the slope on the curve is lowest (e.g., from 47 to 58 ft (14.3 to 17.7 m) and 251 to 261 ft (76.5 to 79.6 m) bgs). These two intervals coincide with intervals where packer tests detected measurable fracture permeabilities (see Table 2.3-29). In MW301C, the primary direction of fracture dips was southward and the primary dip angle was steep (60 to 90 degrees), as shown in Figure 2.3-81 and Figure 2.3-82, respectively. A secondary set of fractures had a relatively low dip angle of 20 to 30 degrees (Figure 2.3-82).

Monitoring well MW310C is located approximately 400 ft (122 m) north-northwest of MW301C. Based on the televiewer results, the density of fractures detected in MW310C (Figure 2.3-83) was much greater than the density of fractures in MW301C. In MW310C, the fractures density was greatest in three different intervals: 24 to 80 ft (7.3 to 24.4 m), 141 to 145 ft (43.0 to 44.2 m), and 195 to 200 ft (59.5 to 61.0 m) bgs (Figure 2.3-83). These three intervals generally coincide with intervals where packer tests detected measurable fracture permeabilities in MW310C (see Table 2.3-29). Unlike MW301C, the primary direction of fracture dips in MW310C was northward and the dip angle was moderately steep (50 to 60 degrees), as shown in Figure 2.3-84 and Figure 2.3-85, respectively. The density and orientation of fractures does not necessarily coincide with zones that have the greatest hydraulic conductivities; sometimes the fractures are healed or cemented shut with calcite. However, there does seem to be a qualitative correlation between fracture density and hydraulic conductivity.

Based on the slug test results from the BBNPP (Table 2.3-27), the shallow bedrock wells appear to have Kh values that are greater than the deep bedrock. However, the packer test results suggest that the Kh values of the deep bedrock are greater than determined for the shallow bedrock (Table 2.3-29). In general, the hydraulic conductivity of the bedrock appears to be highly variable, as expected for a fractured rock mass.

Based upon all four shallow bedrock pumping tests conducted at the BBNPP Site (Table 2.3-28), the shallow bedrock has an estimated geometric mean Kh of 1.50 ft/day (5.30E-04 cm/s), an estimated geometric mean transmissivity of 5.78E+01 ft2/day (6.21E-01 cm2/s), and estimated geometric mean storage coefficient of 1.60E-04. The Kh values estimated for the shallow bedrock are approximately 2 orders of magnitude less than the Kh values estimated for the Glacial Outwash aquifer (MW302 pumping test) (Table 2.3-28).

2.3.1.2.3.4 Groundwater Flow Velocities

Based on the evaluation summarized in the previous sections, only the shallow water-bearing units (i.e., Glacial Outwash aquifer and the Shallow Bedrock aquifer) will be affected by construction and operation of BBNPP. Groundwater use associated with BBNPP operations is discussed in Section 2.3.2.2. Accidental release parameters and pathways for liquid effluents in groundwater and surface water are presented in FSAR Section 2.4.13.

This section presents the most probable groundwater flow directions and seepage velocities beneath and immediately surrounding the BBNPP Power Block area.

The groundwater seepage velocity is defined as horizontal distance traveled over time and is calculated as follows:

Velocity = ((hydraulic gradient) x (horizontal hydraulic conductivity)) / (effective porosity)

Representative flow directions in the Glacial Outwash aquifer, Shallow Bedrock aquifer, and Deep Bedrock aquifer are presented in Figure 2.3-55 through Figure 2.3-62, Figure 2.3-63 through Figure 2.3-70, and Figure 2.3-71 through Figure 2.3-78, respectively. Horizontal hydraulic gradients and seepage velocities have been calculated for each representative flow path (Table 2.3-23).

2.3.1.2.3.4.1 Glacial Overburden Aquifer

The estimated horizontal hydraulic gradients in the Glacial Outwash aquifer range from 3.20E-03 to 2.68E-02 (Table 2.3-23 and Table 2.3-24). The largest gradients (1.02E-02 to 2.57E-02) occurred in spring (March 2008) when groundwater elevations were highest (Table 2.3-23). The lowest gradients (3.20E-03 to 1.95E-02) generally occurred in summer (September 2010) when groundwater elevations were lowest (Table 2.3-24). The groundwater flow directions in the Glacial Outwash aquifer are westward toward Walker Run, eastward toward the SSES spray pond area, and southward (groundwater in the northern trough) through the eastern notch, toward the southern trough. In the southern trough, the flow continues from east to west and then southwest, where it discharges as springs and seeps into pond G8, the wetlands along the southern border of the BBNPP Site, and into Walker Run (Figure 2.3-55 through Figure 2.3-62). Based on the calculated gradients, the geometric mean hydraulic conductivity value derived from the pumping test at MW302A1, and an effective porosity value 0.322 (equivalent to specific yield) (Table 2.3-28), approximate linear groundwater seepage velocities were calculated for groundwater flow through the Glacial Outwash. The linear velocities range from 1.85E+00 to 1.55E+01 ft/day (6.53E-04 to 5.47E-03 cm/s) (Table 2.3-23 and Table 2.3-24).

2.3.1.2.3.4.2 Shallow Bedrock Aquifer

The estimated horizontal hydraulic gradients in the Shallow Bedrock aquifer range from 1.97E-02 to 5.79E-02 (Table 2.3-23 and Table 2.3-24), with a groundwater flow direction to the south, southwest and the southeast, as shown on Figure 2.3-63 through Figure 2.3-70. Based on the calculated gradients, the geometric mean hydraulic conductivity value derived from pumping tests conducted in shallow bedrock (1.50 ft/day (5.29E-04 cm/s)) (Table 2.3-28), and an assumed range of effective porosity values from 0.01 to 0.10 (Freeze, 1979), approximate linear groundwater seepage velocities were calculated for groundwater flow through the shallow bedrock. For an effective porosity of 0.01, linear velocities range from 2.95E+00 to 8.69E+00 ft/day (1.04E-03 to 3.07E-03 cm/s) (Table 2.3-23 and Table 2.3-24). For an effective porosity of 0.10, linear velocities range from 2.95E-01 to 8.69E-01 ft/day (1.04E-04 to 3.07E-04

cm/s)(Table 2.3-23 and Table 2.3-24). Unlike the Glacial Outwash aquifer, no temporal trends are apparent in the horizontal hydraulic gradients for the Shallow Bedrock aquifer.

2.3.1.2.3.4.3 Deep Bedrock Aquifer

The estimated horizontal hydraulic gradients in the Deep Bedrock aquifer range from 1.46E-02 to 3.17E-02 (Table 2.3-23 and Table 2.3-24), with a flow direction to the south and southwest (Figure 2.3-71 through Figure 2.3-78). Based on the calculated gradients, the geometric mean hydraulic conductivity value derived from slug tests conducted in the deep bedrock wells (3.35E-01 ft/day (1.18E-04 cm/s)) (Table 2.3-27), and an assumed range of effective porosity values from 0.01 to 0.10 (Freeze, 1979), approximate linear groundwater seepage velocities were calculated for the deep bedrock. For an effective porosity of 0.01, the linear velocities range from 4.90E-01 to 1.06E+00 ft/day (1.73E-04 to 3.74E-04 cm/s) (Table 2.3-23 and Table 2.3-24). For an effective porosity of 0.10, the linear velocities range from 4.90E-02 to 1.06E-01 ft/day (1.73E-05 to 3.74E-05 cm/s) (Table 2.3-23 and Table 2.3-24). Similar to the Shallow Bedrock aquifer, no temporal trends are apparent in the horizontal hydraulic gradients for the Deep Bedrock aquifer.

2.3.1.3 References

Crawford, 1999. Part III, Structural Geology and Tectonics, Chapter 16: Piedmont Upland, in C.H. Shultz ed., The Geology of Pennsylvania: Pennsylvania Bureau of Topographic and Geologic Survey Special Publication 1, p 234-241, M.L. Crawford, W.A. Crawford, A.L. Hoersch, and M.E. Wagner, 1999.

Crowl, 1980. Glacial Border Deposits of Late Wisconsinan Age in Northeastern Pennsylvania. Pennsylvania Bureau of Topographic and Geologic Survey, General Geology Report 71, G.H. Crowl and W.D. Sevon, 1980.

DCNR, 2007a. Geologic Map of Pennsylvania, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/maps/map7.pdf, Date accessed: December 14, 2007.

DCNR, 2007b. Piedmont Lowland Section Piedmont Province, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/map13/13pls.aspx, Date accessed: December 14, 2007.

DCNR, 2007c. Gettysburg-Newark Lowland Section Piedmont Province, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/map13/13gnls.aspx, Date accessed: December 14, 2007.

DCNR, 2007d. Piedmont Upland Section Piedmont Province, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.state.pa.us/topogeo/map13/13pus.aspx, Date accessed: December 14, 2007.

DCNR, 2008. The Resource- News & Information, November 2001. Website: http://www.dcnr.state.pa.us/polycomm/res2001/bowerdam1101.htm, Date accessed: June 17, 2008.

Ecology III, 1986. Pre-Operational Studies of the Susquehanna River in the Vicinity of the Susquehanna Steam Electric Station, 1971-1982, Ecology III, Inc, December 1986.

FEMA, 2008. Flood Insurance Map, Luzerne County. Website: http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1, Date accessed: March 27, 2008.

FREEZE, 1979. Groundwater, Prentice Hall, New Jersey, R.A. Freeze and J.A. Cherry, 1979.

Hollowell, 1971. Hydrology of the Pleistocene Sediments in the Wyoming Valley, Luzerne County, PA, Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 28, J.R. Hollowell, 1971.

Inners, 1978. Geology and Mineral Resources of the Berwick Quadrangle, Luzerne and Columbia Counties, PA, Pennsylvania Bureau of Topographic and Geologic Survey, Atlas 174c, J.D. Inners, 1978.

Lohman, 1937. Ground Water in Northeastern Pennsylvania, Pennsylvania Geological Survey, 4th Series, Bulletin W4, S.W. Lohman, 1937.

NOAA, 2008. Middle Atlantic River Forecast Center, Hurricane Agnes, Website: http://ahps.erh.noaa.gov/marfc/Flood/agnes.html, Date accessed: February 7, 2008.

PADEP, 2008. Pennsylvania's Major River Basins, Website: http://www.dep.state.pa.us/river/basininfo.htm, Date accessed: June 19, 2008

PPL, 1999a. SSES Unit 1 and 2 FSAR Report, Revision 54, Table 2.4-1, PPL Susquehanna, LLC, October 1999.

PPL, 1999b. SSES Unit 1 and 2 FSAR Report, FSAR Revision 62, FSAR 2.4 Hydrologic Engineering, PPL Susquehanna, LLC, 1999.

PPL, 1999c. SSES Unit 1 and 2 FSAR Report, Revision 54, Table 2.4-33 and 2.4-34, PPL Susquehanna, LLC, October 1999.

Root, 1999. Part III, Structural Geology and Tectonics, Chapter 21: Gettysburg-Newark Lowland, in C.H. Shultz ed, The Geology of Pennsylvania: Pennsylvania Bureau of Topographic and Geologic Survey Special Publication 1, p 298-305, S. Root and D. MacLachlan, 1999.

Sevon, 1997. Glacial Deposits of Pennsylvania, Pennsylvania Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey, Map 59. W.D Sevon and D.D. Braun, 1997.

Sevon, 2000. Physiographic Provinces of Pennsylvania, Pennsylvania Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey, Map 13, W.D. Sevon, 2000.

SRBC, 2008a. Middle Susquehanna Sub-basin, Sub-basin Information, Website: http://www.srbc.net/subbasin/middlesus.htm, Date accessed: June 18, 2008.

SRBC, 2008b. Susquehanna River Basin, Information Sheet, Website: http://www.srbc.net/pubinfo/docs/Susq%20River%20Basin%20General%20(11_06).pdf, Date accessed: June 19, 2008.

Taylor, 1984. Groundwater Resources of the Upper Susquehanna River Basin, PA, Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 58, L.E. Taylor, 1984.

Trapp, 1997. Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia, Ground Water Atlas of the United States, U.S. Geological Survey, Hydrologic Investigations Atlas 730-L, H. Trapp and M. Horn.

USGS, 1989. 1:24,000 Topographic Maps: Berwick, Pennsylvania, U.S. Geological Survey, 1989.

USGS, 2002. Water Resources Data New York Water Year 2002, Volume 3, Western New York, U.S. Department of the Interior, U.S. Geological Survey, Website: http://ny.water.usgs.gov/pubs/wdr/wdrny023/wdrny023.pdf, pp. 75 - 77.

USGS, 2008a. Peak Streamflow for Pennsylvania USGS 01540500 Susquehanna River at Danville, PA, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01540500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.

USGS, 2008b. Peak Streamflow for Pennsylvania USGS 01536500 Susquehanna River at Wilkes-Barre, PA, Website: http://nwis.waterdata.usgs.gov/pa/nwis/peak?site_no=01536500&agency_cd=USGS&format=html, Date accessed: January 25, 2008.

USGS, 2008c. USGS 01534490 Aylesworth Creek Lake, PA, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01534490, Date accessed: April 4, 2008.

USGS, 2008d. USGS 01534180 Stillwater Lake, PA, Website: http://waterdata.usgs.gov/pa/nwis/uv/?site_no=01534180&PARAmeter_cd=00062, Date accessed: April, 4, 2008.

USGS, 2008e. USGS 01517900 Tioga Lake at Tioga Dam, PA, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01517900, Date accessed: April 4, 2008.

USGS, 2008f. USGS 01518498 Hammond Lake at Hammond Dam, PA, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01518498, Date accessed: April 4, 2008.

USGS, 2008g. USGS 01519995 Cowanesque Lake, PA, Website: http://waterdata.usgs.gov/pa/nwis/uv?site_no=01519995, Date accessed: April 4, 2008.

USGS, 2008h. USGS 01540500 Susquehanna River at Danville, Website: http://nwis.waterdata.usgs.gov/pa/nwis/monthly/?referred_module=sw&site_no=01540500&por_01540500_1=1820802,00060,1,1905-04,2008-09&format=html_table&date_format=YYYY-MM-DD& rdb_compression=file&submitted_form=parameter_selection_list, Date accessed: January 25, 2008

USGS, 2008i. USGS 01536500 Susquehanna River at Wilkes-Barre, PA, Website: http://nwis.waterdata.usgs.gov/pa/nwis/monthly/?referred_module=sw&site_no=01536500&por_01536500_1=1820685,00060,1,1899-04,2008-09&format=html_table&date_format=YYYY-MMDD& rdb_compression=file&submitted_form=parameter_selection_list, Date accessed: January 23, 2008

USGS, 2008j. USGS Real-Time Water Data for USGS 411800076162501 LU 243 Luzerne County Obs Well, Website: http://nwis.waterdata.usgs.gov/nwis/dv?cb_72019=on&format=gif_default&begin_date=1960-01-01&end_date=1994-07-14&site_no

=411800076162501&referred_module=sw, Date accessed: July 8, 2008 (reaccessed Aug. 3, 2009).

USGS, 2008k. USGS 01540500 Susquehanna River at Danville Daily Average Flow Data, Website: http://nwis.waterdata.usgs.gov/pa/nwis/dvstat/?referred_module=sw&site_no=01540500&por_01540500_1=1820802,00060,1,1905-04-01,2008-09-30&format=html_table&stat_cds=mean_va&date_format=YYYY-MMDD&rdb_compression=file&submitted_form=parameter_selection_list , Date accessed: January 25, 2008.

USGS, 2008l. USGS 01536500 Susquehanna River at Wilkes-Barre, PA Daily Average Flow Data, Website: http://nwis.waterdata.usgs.gov/pa/nwis/dvstat/?referred_module=sw&site_no=01536500&por_01536500_1=1820685,00060,1,1899-04-01,2008-09- 30&format=html_table&stat_cds=mean_va&date_format=YYYY-MM-DD&rdb_compression=file&submitted_form=parameter_selection_list , Date accessed: January 23, 2008.

USGS, 2008m. USGS 01540500 Susquehanna River at Danville Daily Maximum Flow Data, Website: http://nwis.waterdata.usgs.gov/pa/nwis/dvstat/?referred_module=sw&site_no=01540500&por_01540500_1=1820802,00060,1,1905-04-01,2008-09-30&format=html_table&stat_cds=max_va&date_format=YYYY-MM-DD&rdb_compression=file&submitted_form=parameter_selection_list, Date accessed: January 25, 2008.

USGS, 2008n. USGS 01536500 Susquehanna River at Wilkes-Barre, PA Daily Maximum Flow Data, Website: http://nwis.waterdata.usgs.gov/pa/nwis/dvstat/?referred_module=sw&site_no=01536500&por_01536500_1=1820685,00060,1,1899-04-01,2008-09-30&format=html_table&stat_cds=max_va&date_format=YYYY-MM-DD&rdb_compression=file&submitted_form=parameter_selection_list , Date accessed: January 23, 2008.

USGS, 2008o. USGS 01540500 Susquehanna River at Danville Daily Minimum Flow Data, Website: http://nwis.waterdata.usgs.gov/pa/nwis/dvstat/?referred_module=sw&site_no=01540500&por_01540500_1=1820802,00060,1,1905-04-01,2008-09-30&format=html_table&stat_cds=min_va&date_format=YYYY-MM-DD&rdb_compression=file&submitted_form=parameter_selection_list, Date accessed: January 25, 2008.

USGS, 2008p. USGS 01536500 Susquehanna River at Wilkes-Barre, PA Daily Maximum Flow Data, Website: http://nwis.waterdata.usgs.gov/pa/nwis/dvstat/?referred_module=sw&site_no=01536500&por_01536500_1=1820685,00060,1,1899-04-01,2008-09-30&format=html_table&stat_cds=min_va&date_format=YYYY-MM-DD&rdb_compression=file&submitted_form=parameter_selection_list, Date accessed: January 23, 2008.

USGS, 2008q. USGS Real-Time Water Data for USGS 411756076162701 LU 294 Luzerne County Obs Well, Website: http://nwis.waterdata.usgs.gov/nwis/dv?cb_72019=on&format=gif_default&begin_date=1994-11-01&end_date=2008-07-01&site_no=411756076162701&referred_module=sw, Date accessed: July 8, 2008 (reaccessed Aug. 3, 2009).

USGS, 2008r. USGS Real-Time Water Data for USGS 411757075505801 LU 309 Luzerne County Obs Well, Website: http://nwis.waterdata.usgs.gov/nwis/dv?cb_72019=on&format=gif_default&begin_date=1967-01-01&end_date=1976-01-01&site_no=411757075505801&referred_module=sw, Date accessed: July 8, 2008 (reaccessed Aug. 3, 2009).

USGS, 2008s. USGS Real-Time Water Data for USGS 410332076115302 LU 455 Luzerne County Obs Well, Website: http://nwis.waterdata.usgs.gov/nwis/dv?cb_72019=on&format=gif_default&begin_date=1980-10-23&end_date=1982-08-23&site_no=410332076115302&referred_module=sw, Date accessed: July 8, 2008 (reaccessed Aug. 3, 2009).

Williams, 1987. Groundwater Resources of the Berwick-Bloomsburg-Danville Area, East-Central Pennsylvania, Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 61, J.H. Williams and D.A. Eckhardt, 1987.

2.3.2 Water Use

This section describes surface water and groundwater uses that could affect or be affected by the construction or operation of the BBNPP and associated onsite transmission corridor and offsite facilities. Consumptive and non-consumptive water uses are identified, and water diversions, withdrawals, consumption, and returns are quantified. In addition, this section describes statutory and legal restrictions on water use and provides the projected water use for the BBNPP.

References to elevation values in this section are based on the North American Vertical Datum of 1988 (NAVD 88), unless stated otherwise.

2.3.2.1 Surface Water Use

2.3.2.1.1 Surface Water

The BBNPP site is located in Salem Township, Luzerne County, northeastern Pennsylvania. It lies on a relatively flat upland terrace, approximately 1.5 mi (2.4 km) north of the Susquehanna River (Figure 2.3-2). The finished plant grade elevation will be 719 ft (219.2 m) (Section 3.4.1.3.3). The elevation of the Susquehanna River 100-yr floodplain is approximately 513 ft (156 m) National Geodetic Vertical Datum of 1929 (NGVD 1929) (FEMA, 2008). Thus, the BBNPP site is approximately 206 ft (63.0 m) above the Susquehanna River 100-year floodplain and 219 ft (66.8 m) above average river level (Figure 2.3-2). There are no major water bodies (e.g., larger than 10 ac (4 ha) in area) directly adjacent to or on the BBNPP site.

2.3.2.1.2 Consumptive Surface Water Use

In Pennsylvania, the Pennsylvania Department of Environmental Protection (PADEP) imposes certain registration and reporting requirements for statewide water withdrawal and use. Consumptive surface water use within the Susquehanna River Basin is regulated by the Susquehanna River Basin Commission (SRBC).

The use of water from the Susquehanna River is regulated by the SRBC, an agency created by a compact between the Federal government and the three states in which the Susquehanna River Basin lies. In general, operations subject to the SRBC are those that exceed an average consumption rate of 20,000 gpd (75,708 lpd) in any consecutive 30-day period (SRBC, 2007) or that exceed an average withdrawal (groundwater, surface water or combined) of 100,000 gpd (378,541 lpd) over a 30-day period. Consumptive use means that water will be used and not

returned to the Susquehanna River. Consumption rates less than the 20,000 gpd (75,708 lpd) fall under the Water Resources Planning Act (Act 220).

According to the PADEP, the Water Resources Planning Act (Act 220) requires the PADEP to conduct a statewide water withdrawal and use registration and reporting program (PADEP, 2008a). Each public water supply agency, each hydropower facility (irrespective of the amount of withdrawal), and each person who withdraws or uses more than 10,000 gpd (37,854 lpd) over any 30-day period, must register their withdrawal or withdrawal use.

In general, in-stream uses downstream of public water-supply intakes are protected by permit conditions requiring either conservation releases from large reservoirs or minimum passby flows (USGS, 2008).

The Middle Susquehanna sub-basin (Figure 2.3-1) is approximately 3771 mi^2 (9767 km^2) in area and has a population representing 16 percent of the total Susquehanna River Basin. Total water consumption (surface water and groundwater) in the sub-basin is: 40.7 percent for power generation, 37.6 percent for municipal use, 15.2 percent for industrial use, 4.1 percent for agriculture, and 2.4 percent for domestic use (SRBC, 2008a).

Surface water use data for Luzerne County were obtained from the PADEP (PADEP, 2010a). Figure 2.3-86 illustrates the registered surface water withdrawal locations reported by major water users in Luzerne County. This figure does not include public water supplies, because the state does not publish the locations of public water supplies for security reasons. Figure 2.3-87 identifies active surface water users (not including the public water supplies) within Luzerne County (PADEP, 2010a). Figure 2.3-87 shows the locations of the surface water intakes portrayed in Figure 2.3-86, but includes only those which are within a 5 mi (8 km) radius of the BBNPP site. Susquehanna Steam Electric Station (SSES) Units 1 and 2 is the largest water user in the vicinity of BBNPP. SSES 1 & 2 withdraw water from the Susquehanna River. Presently, Walker Run is not listed as being used as a source of water for agricultural, domestic, or industrial purposes.

In December 2006, SSES requested that the allowable maximum daily river withdrawal be increased to 66 million gpd (250 million lpd), and a consumptive use maximum of 48 million gpd (182 million lpd) due to an extended power uprate (EPU). This docket, Approval No. 19950301-1, was granted by the SRBC. After the EPU the average consumptive use is estimated to be 45 million gpd (170 million lpd) (PPL, 2006). The SSES' present average withdrawal is approximately 58.3 million gpd (221 million lpd) and consumptive use is 40 million gpd (151 million lpd). An environmental assessment for this permit revision concluded that the increase in water usage would not significantly affect the Susquehanna River hydrology or aquatic ecology (USEPA, 2008a).

Table 2.3-31 shows water use patterns by SSES Units 1and 2 from 2001 to 2006. During that period, the highest total monthly consumptive use was 1,175 million gallons per month (4,448 million liters per month) in July 2002, and the annual average consumptive use was 909.5 million gallons per month (3443 million liters per month).

Between 1961 and 2002, the Susquehanna River had an annual mean flow of 14,586 cfs (413 m^3/s) (PPL, 2006). Assuming a SSES Units 1 and 2 discharge to the Susquehanna River of 25 cfs (0.7 m^3/s) and an average withdrawal rate of approximately 94 cfs (2.7 m^3/s), then the net consumptive loss to the Susquehanna River is approximately 69 cfs (2 m^3/s), which represents approximately 0.47 percent of the average river flow at SSES over the past 42 years

(PPL, 2006). The SRBC works with local, state, and federal agencies to augment and protect in stream water needs during times of low flow.

As part of this low flow management, activities such as the low flow augmentation for the existing SSES Units 1 and 2 were achieved by agreements between Pennsylvania Power and Light Company (PPL) and SRBC, and SRBC and the U.S. Army Corps of Engineers (USACE). USACE manages the Cowanesque Reservoir located near Lawrenceville, PA, to provide water supply storage and releases during low flow periods to replace the consumptive water use by SSES Units 1 & 2 (40 million gpd (151 million lpd) (30-day average)). In addition, the SRBC dictates that if the surface-water withdrawal impact is minimal in comparison to the natural or continuously augmented flows of a stream or river, no further mitigation is necessary (SRBC, 2002).

In accordance with 18 CFR Part 803.22 (December 29, 2006) (Federal Register, 2006a) as it relates to the SBRC, several changes were made, including the removal of a specific low flow criterion (Q7-10) Mitigation.

SRBC's current standards for consumptive uses of water (Federal Register, 2006b) dictate that all project sponsors whose consumptive use of water is subject to review and approval under Sec. 806.4 shall mitigate such consumptive use during low flow periods. Mitigation may be provided by one, or a combination of the following:

- Reduce withdrawal from the approved source(s), in an amount equal to or greater than the project's total consumptive use, and withdraw water from alternative surface water storage or aquifers or other underground storage chambers or facilities approved by the Commission, from which water can be withdrawn for a period of 90 days without impact to surface water flows.

- Release water for flow augmentation, in an amount equal to the project's total consumptive use, from surface water storage or aquifers, or other underground storage chambers or facilities approved by the Commission, from which water can be withdrawn for a period of 90 days without impact to surface water flows.

- Discontinue the project's consumptive use, except that reduction of project sponsor's consumptive use to less than 20,000 gpd during periods of low flow shall not constitute discontinuance.

- Provide monetary payment to the Commission, for annual consumptive use, in an amount and manner prescribed by the Commission.

- Use, as a source of consumptive use water, surface storage that is subject to maintenance of a conservation release acceptable to the Commission.

- Implement other alternatives approved by the Commission.

The Commission will, in its sole discretion, determine the acceptable manner of mitigation to be provided by project sponsors whose consumptive use of water is subject to review and approval. Such a determination will be made after considering the project's location, source characteristics, anticipated amount of consumptive use, proposed method of mitigation and their effects on the purposes set forth in Sec. 806.2, and any other pertinent factors. The Commission may modify, as appropriate, the manner of mitigation, including the magnitude and timing of any mitigating releases, required in a project approval.

The provisions of this regulation apply to consumptive uses initiated since January 23, 1971. Consumptive uses beginning after this date must comply with the requirement within a time period to be determined by the SRBC at the time of the permit application review.

Changes in Consumptive Use Upstream:

Information on present and projected values of consumptive water use is obtained from the SRBC May 2008 Consumptive Use Mitigation Plan. Maximum current consumptive use potential in the Susquehanna River Basin is an estimated 882.5 million gallon per day (gpd) (3,341 million lpd) (SRBC, 2008b). SRBC projects an increase to more than 1.2 billion gpd (4.5 billion lpd) by 2025. SRBC estimates that water for power production will have the largest increase. Portions of those current and future consumptive use totals that require mitigation are 116.7 million gpd (441.7 million lpd) and 390.3 million gpd (1,477.5 million lpd), respectively (SRBC, 2008b). These needs will serve as the basis for the evaluation and assessment of various projects including the BBNPP for effective low flow mitigation requirement through 2025.

Currently, the SRBC is studying existing reservoirs to identify additional water storage capacity that might be released during low flow in the Susquehanna River.

Major public water suppliers within Luzerne and Columbia Counties are presented in Table 2.3-32 (USEPA, 2008b) (PADEP, 2010c). Water sources for Luzerne and Columbia counties include lakes, rivers, reservoirs, and their tributaries, but do not include water withdrawal directly from the Susquehanna River.

Water use projections are developed based on population trends in a given area. Since the Susquehanna River is not a common source for drinking water in Luzerne County, the surface water use projection in the county will not affect the BBNPP consumption. As a matter of fact, the population projection for Act 220 State Water Plan estimates a 7 percent decline in the Luzerne County population between 2000 and 2030 (PADEP, 2008b). Thus, future additional use of surface water is projected to be extremely limited, except for the increase due to BBNPP needs.

Surface and wastewater discharges at SSES are regulated through the National Pollutant Discharge Elimination System (NPDES) Individual Permit for Discharge of Stormwater Associated with Construction Activities. In Pennsylvania, these permits are issued and enforced by the PADEP Bureau of Water Supply and Wastewater Management. SSES's current NPDES Individual Permit for Discharge of Stormwater Associated with Construction Activities (Permit No. PA0047325) was effective beginning on September 1, 2005, and is valid through August 31, 2010 (remains in effect while the renewal application is undergoing review). Table 2.3-33 shows the average and monthly SSES cooling tower blowdown discharge rates for 2000-2007. The highest recorded monthly maximum discharge (17.78 million gpd (67 million lpd) occured in 2003.

Figure 2.3-88 illustrates water pollution control facilities locations within a 5 mi (8 km) radius from BBNPP and Figure 2.3-89 shows their locations within Luzerne County. Table 2.3-34 lists the water pollution control facilities located within Luzerne County (PADEP, 2010b). Since each individual permit may have more than one outfall, the number of actual permits is less than the number of outfalls quoted above.

2.3.2.1.3 Non-Consumptive Surface Water Use

The major non-consumptive surface water uses in the vicinity of the site are wildlife habitat, recreation, fishing, and navigation. The recreational activities include swimming, fishing, and boating along the Susquehanna River. No navigation or swimming is permitted in the vicinity of the BBNPP Intake Structure.

Several canals, dams, and levees were constructed during the early 1800's, to improve transportation on the Susquehanna River. However, bridges have replaced ferries and railroads have replaced canals making commercial navigation on the Susquehanna River negligible.

Fishing is a year-round activity in the Susquehanna River. Boating is an activity that is generally limited to the 9-month period from Spring to Fall. Swimming is an activity that occurs during the summer season.

Several boat ramps are located in the vicinity of the BBNPP. The Nesbitt Park boat ramp, operated by the City of Wilkes-Barre, is located about 25 mi (40 km) upstream of the proposed BBNPP Intake Structure. Within a 10 mi (16 km) radius from the BBNPP, three boat ramps are available on the Susquehanna River. The Pennsylvania Fish and Boat Commission operates a recreational boat ramp about 5 mi (8 km) upstream; a private club operates the Wapwallopen boat ramp approximately 1.5 mi (2.4 km) downstream from BBNPP; and the Borough of Berwick operates the Berwick Test Track boat ramp approximately 8 mi (13 km) downstream. A fourth boat ramp is located in Hunlock Township, about 10 miles (16 km) upstream from BBNPP.

2.3.2.1.4 Statutory and Legal Restrictions on Surface Water Use

The withdrawal of water from the Susquehanna River to be used in the cooling systems for BBNPP is regulated by the SRBC. In addition, the Pennsylvania Water Resources Act 220 of 2002 directed PADEP to complete an update of the State Water Plan in five years and have updates every five years thereafter. The State Water Plan is designed to provide up-to-date information on Pennsylvania's water availability, an assessment and projection of water use and future demands on a watershed basis, identification of critical water planning areas where water demands are projected to exceed available water supplies, and the development of critical area resource plans for these areas. The bill recognizes that with proper planning, Pennsylvania's water resources are capable of serving multiple uses in a balanced manner. To gather the data necessary to assess current water demands, the bill provides for registration of major water withdrawals (exceeding 10,000 gpd), and periodic reporting of water usage by such major users. The bill establishes a formal program to promote voluntary water conservation and water use efficiency practices for all water users (PADEP, 2008c).

Any surface water withdrawal that exceeds 100,000 gallons per day (378,541 lpd) as a 30-day average requires review and approval by the SRBC.

The discharge of blowdown from cooling towers, effluent from sewage treatment plants, and storm water runoff is regulated by the PADEP under the Pennsylvania Clean Streams Law with USEPA oversight provided by the Clean Water Act (CFR, 2007a). The USEPA conducts oversight of the NPDES Individual Permit for Discharge of Stormwater Associated with Construction Activities program based on statutory requirements contained in the Clean Water Act (CWA, 1948) and regulatory requirements contained in the NPDES regulations (CFR, 1998).

The NPDES Individual Permit for Discharge of Stormwater Associated with Construction Activities issued by the PADEP is governed by PADEP's regulations, including the water quality standards codified at 25 PA Code, Chapter 93, which establishes water quality criteria meant to protect specified designated uses, including "Warm Water Fisheries," which is the designated use for the relevant portion of the Susquehanna River (COP, 2006). The Pennsylvania Code is an official publication of the Commonwealth of Pennsylvania. Section 93.7 of the Pennsylvania Code contains regulations and other documents filed with the Legislative Reference Bureau related to water quality standards for surface waters of Pennsylvania. Maximum temperatures in the receiving water body resulting from heated waste sources, where temperature limits are necessary to protect designated and existing uses, are defined under Section 93.7 of the Pennsylvania Code.

Walker Run is not listed under the Clean Water Act (CWA, 1948) as an impaired water body. Within a 50 mi (80 km) radius of BBNPP, Little Nescopeck Creek is the nearest water body that has been impaired due to metals and pH which result from mining activities in the region.

2.3.2.1.5 Plant Water Use

Plant water use for BBNPP is described in Section 3.3. There are no other station water uses other than those described in Section 3.3. The plant water use diagram for BBNPP is described in Section 3.3.

2.3.2.2 Groundwater Use

This section provides a description of the groundwater use at, and in the vicinity of, the BBNPP site. This section also describes the regional and local groundwater resources that could be affected by the construction and operation of the BBNPP.

The objective of this section is to describe and discuss the U.S. Environmental Protection Agency (EPA) sole source aquifers within the region, groundwater use in northeastern Pennsylvania, current groundwater users in Luzerne and Columbia counties, current groundwater use by SSES Units 1 and 2, expected future demands for Luzerne and Columbia counties, and anticipated BBNPP groundwater use. Another objective of this section is to identify and evaluate possible impacts to the groundwater aquifers due to the operation and construction of the BBNPP.

2.3.2.2.1 Physical Setting

The proposed BBNPP site is located in Salem Township, Luzerne County, on the northwest side of the North Branch of the Susquehanna River (NBSR) (within the Middle Susquehanna drainage basin), as shown on Figure 2.3-1. The proposed BBNPP site is situated in the Walker Run watershed, which has a drainage area of approximately 4.32 mi^2 (11.16 km^2). The BBNPP property is also adjacent to SSES Units 1 and 2 in an area of open deciduous woodlands, interspersed with cultivated fields and orchards. The site sits on a relatively flat upland area, approximately 219 ft (66.8 m) above the Susquehanna River water level, as shown in Figure 2.3-2. The BBNPP site is approximately:

- 1.7 mi (2.7 km) north-northeast of the confluence of Walker Run and the NBSR,
- 22 mi (35 km) downstream of Wilkes-Barre, PA,
- 5 mi (8 km) upstream of Berwick, PA, and
- 70 mi (113 km) north-northeast of Harrisburg, PA.

The climate of the site area can be described as a humid, continental, moderate climate, with cool to cold winters and long hot summers.

The BBNPP site is covered by glacial deposits and was subjected to both glacial and periglacial events during the Quaternary Epoch. Underneath this glacial overburden lies Devonian bedrock (primarily shale and siltstone) that has been severely folded and deformed. Erosion and down cutting from the Susquehanna River and its tributary streams have dissected the overburden, leaving many exposed bedrock outcrops throughout the site area. Ground surface elevations within a 5 mi (8 km) radius around the BBNPP site vary from just under 500 ft (152 m), on the floodplain of the NBSR, to a maximum of approximately 1,560 ft (476 m). Thus, the topographic relief within 5 mi (8 km) radius is approximately 1,060 ft (323 m).

The NBSR flows from north to south past the SSES, makes a broad, 90 degree angle turn (i.e., Bell Bend) to the west, and flows to the south of the BBNPP before reaching Berwick, PA. The BBNPP lies approximately 1.5 mi (2.4 km) north of the NBSR at its closest point. The NBSR ultimately receives all surface water and groundwater that drains from the BBNNP site.

An east-west trending ridge lies just to the north of the BBNPP and Beach Grove Road. Small streams drain from the ridge top and flow southward toward the NBSR. Walker Run is a relatively small stream, but is the largest in the immediate vicinity of the BBNPP site. Walker Run flows southward along the western side of the BBNPP site, and there is a considerable drop in elevation from the hill tops within the Walker Run watershed to the Susquehanna River. Table 2.3-1 shows the approximate runoff flow path lengths and slopes within the Walker Run watershed sub-basins. Unnamed Tributary No.1 flows along the eastern and southern BBNPP protected area boundary and enters Walker Run on the southwest side of the plant. Unnamed Tributary No. 3 flows southeastward from the BBNPP site and empties into the NBSR. The Walker Run watershed (Figure 2.3-3) has a drainage area of 4.32 mi^2 (11.16 km^2). SSES is located approximately 1 mi (1.6 km) east of the BBNPP Nuclear Island. Runoff from the SSES flows eastward towards the NBSR and does not enter the Walker Run watershed. Confers Lane is a township road which runs north-south and separates the SSES from the BBNPP site. This road also acts as a surface water divide between the two sites.

2.3.2.2.2 Hydrogeologic Setting

The regional and site-specific physical and hydrologic characteristics of these groundwater resources are presented in Section 2.3.1.2. The following sections provide a brief summary of hydrogeologic conditions in the vicinity of the BBNPP site.

The location of the BBNPP site is shown in Figure 2.3-1. The site is located on a flat upland terrace above the North Branch of the Susquehanna River in Luzerne County, approximately 5.0 mi (8.0 km) east of Berwick (Figure 2.3-2). The climate of the site area is primarily temperate, with warm, humid summers and cold winters. The topography of the site is gently rolling with northeast-southwest trending ridges located north and south of the site (Figure 2.3-2). At the BBNPP, ground elevations range from 650 ft (200 m) along Walker Run in the southwest corner of the site up to elevations of approximately 800 ft (244 m) in the vicinity of the Power Block (Figure 2.3-3). North of Beach Grove Road, the elevation rises sharply upward to elevations of 1,100 to 1,150 ft (335 to 351 m) along the crest of the ridge (Figure 2.3-3). Thus, total topographic relief in the immediate vicinity of BBNPP is approximately 500 ft (150 m). Walker Run drops another 150 ft (46 m) in elevation before reaching its confluence with the NBSR.

Most of Pennsylvania lies in three primary physiographic provinces (Figure 2.3-17). From northwest to southeast, these are:

- Appalachian Plateaus Province,
- Ridge and Valley Province, and
- Piedmont Province

The BBNPP site lies toward the northeastern end of the Ridge and Valley Province in northeastern Pennsylvania (Figure 2.3-17). The site is only 8 mi (13 km) south of the Appalachian Plateaus Province. Within the Ridge and Valley Province, the site lies in the Susquehanna Lowland Section (Figure 2.3-17), close to the North Branch of the Susquehanna River. In the vicinity of the BBNPP site, the total thickness of Paleozoic sedimentary rocks overlying the Precambrian crystalline basement is approximately 33,000 ft (10,000 m). The Paleozoic sedimentary rocks form a wedge that is thickest in eastern Pennsylvania and gradually thins to the north and west across the state. The sedimentary rocks include sandstone, siltstone, shale, and limestone units, with lesser amounts of coal and conglomerate of Cambrian to Pennsylvanian age. The coal and conglomerate units are generally limited to the Mississippian- and Pennsylvanian-age rock formations (i.e., the uppermost Paleozoic formations). See Section 2.6.2 for additional details regarding stratigraphy and structural geology. Groundwater in the bedrock formations is present primarily in secondary openings, including fractures, joints, and bedding plane separations. Solution of calcareous material, especially along fractures and bedding planes, greatly increases the secondary porosity and permeability of the carbonate rock units. Primary porosity and permeability of bedrock is typically very low. As a result, the ability of the noncarbonate bedrock to store groundwater or yield water to wells is typically less than the carbonate formations.

In the northeastern and northwestern corners of Pennsylvania, the bedrock is overlain by a variable thickness of glacial till, outwash, colluvium, kame, and kame terrace deposits of Pleistocene age (Figure 2.3-18). A large percentage of these surficial glacial materials were deposited during the last major glacial advance (Wisconsinan Stage; 17,000 to 22,000 years before present). The BBNPP site lies at the edge of where the Wisconsinan glacier made its farthest advance (Figure 2.3-18). As a result, end moraine deposits have been mapped at the BBNPP site (Crowl, 1980).

Extensive amounts of outwash sand and gravel were deposited in major stream valleys as the Illinoian and Wisconsinan Stage glaciers advanced and retreated. These outwash and kame terrace deposits constitute some of the most permeable aquifers in the region (Lohman, 1937) (Hollowell, 1971) (Taylor, 1984) (Williams, 1987). The outwash deposits in the Susquehanna River Valley are especially thick and permeable in some places. In these glacial, alluvial, and other unconsolidated deposits, the porosity and permeability are primary (i.e., intergranular).

The northeast-southwest trending Ridge and Valley Physiographic Province extends from West Virginia and Maryland to northeastern Pennsylvania, and covers approximately one quarter of Pennsylvania. This Province is bounded to the north and west by the Appalachian Plateaus Province and to the southeast by the Piedmont Province (Figure 2.3-17). This province is characterized by layered Paleozoic sedimentary rocks that have been complexly faulted and folded. These rocks range in age from Cambrian to Pennsylvanian. Elongated mountain ridges are formed by well-cemented sandstones and conglomerates that are resistant to weathering. These ridges typically are the remnant flanks of breached anticlines.

Limestone, dolomite, and shale are more easily weathered and eroded and, as a result, form the intervening valleys between the ridges.

The principal aquifers in the Ridge and Valley Province are carbonate rocks (limestone and dolomite) and sandstones that range in age from early to late Paleozoic Era. Most of the more productive aquifers are composed of carbonate rocks, primarily limestone, and are found primarily in the valleys. However, the water-yielding character of the carbonate rocks depends upon the degree of fracturing and development of solution cavities in the rock. Sandstone formations can also yield large volumes of water where these rocks are well fractured. Generally, the carbonate aquifers occur in early Paleozoic rocks; whereas, the sandstone aquifers are more frequently found in late Paleozoic rocks (Trapp, 1997). Sand and gravel deposits derived from glacial outwash, kame terrace, and ground moraine also form a very productive aquifer (Glacial Outwash aquifer).

2.3.2.2.3 Sole Source Aquifers

The Sole Source Aquifer (SSA) Program, which is authorized by the Safe Drinking Water Act, allows for groundwater protection when a community is dependent on a single source of drinking water and there is no possibility of a replacement water supply to be found. The USEPA defines a sole or principal source aquifer as one which supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer (USEPA, 2008b).

The BBNPP site is located in USEPA Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia). There are six sole source aquifers in this region (Figure 2.3-90). One of these aquifers, the Seven Valleys aquifer, is located in York County, Pennsylvania along the Pennsylvania-Maryland border. A second sole-source aquifer, the New Jersey Coastal Plain aquifer, is located in New Jersey. However, the Delaware River which is located along the Pennsylvania-New Jersey border is considered a source of recharge for the New Jersey Coastal Plain aquifer. Based on information provided on Figure 2.3-90, the BBNPP site lies approximately 55 mi (88 km) west of the Delaware River and approximately 90 mi (145 km) north of the Seven Valleys aquifer. The other four sole-source aquifers are located in Maryland and Virginia and are more than 100 mi (161 km) distance from the BBNPP site. All six of these sole source aquifers are beyond the surface water and groundwater flow systems of the BBNPP, and will not be impacted by any activities at the site.

2.3.2.2.4 Northeastern Pennsylvania Regional Groundwater Use

Groundwater is extensively used as a source of potable water and other purposes in northeastern Pennsylvania. Groundwater resources in northeastern Pennsylvania have been evaluated since the 1930's by the Pennsylvania Bureau of Topographic and Geologic Survey (PGS) (Lohman, 1937) (Hollowell, 1971) (Taylor, 1984) and by the USGS (Williams, 1987). Descriptions of the physical and hydraulic characteristics of the aquifers in this region are presented in Section 2.3.1.2.

The majority of groundwater use is concentrated along the major glacial outwash valleys (e.g., NBSR, Chemung River, Lackawanna River) and in areas of highest population density. In 1970, the total water use in the NBSR Basin (Pennsylvania portion) was estimated to be approximately 308 million gpd (1.16E+09 lpd), as shown in Table 2.3-35. Of this amount, 44.2 million gpd (1.67E+08 lpd), or 14.4 percent, was obtained from groundwater. The four largest users of groundwater, in order from largest to smallest users, were public supplies, mineral extraction and processing, domestic supply, and industrial supply. Since 1970, underground mining of coal in the northern and eastern-middle anthracite coal basins has virtually ceased, so the extraction of groundwater by the mineral industry sector has declined drastically.

In 1995, the USGS estimated use of groundwater in the NBSR Basin (Pennsylvania portion) was approximately 32 to 50 million gpd (1.21E+08 to 1.89E+08 lpd) (Figure 2.3-91), or nearly the same as the estimated groundwater use in 1970. In the smaller portion of the North Branch watershed containing the BBNPP, groundwater use was approximately 21 to 30 million gpd (0.79E+08 to 1.14E+08 lpd) (Figure 2.3-91).

2.3.2.2.5 Luzerne and Columbia County Groundwater Use

The Pennsylvania Department of Conservation and Natural Resources (DCNR) maintains a state Groundwater Information System (PaGWIS). This database has been consolidated from numerous sources, including the USGS and the PGS. PaGWIS is designed around a comprehensive modification of the USGS's Ground Water Site Inventory (GWSI) national database, which is part of its WATSTORE system, a national database developed to manage water data. PaGWIS contains information on 44,411 wells and 1,538 springs from the GWSI database and is current through July 1998 (DCNR, 2010).

PaGWIS also contains information regarding approximately 300,000 wells from the PGS's Water Well Inventory (WWI), which Pennsylvania uses to manage data supplied to them by water well drillers (DCNR, 2010). Data submission began in 1966 using paper forms. Latitude and longitude values were determined in the office by interpreting both handwritten directions and a hand-drawn map supplied by the drilling companies. Most of the location and data entry work has been done by temporary employees of the agency, so it is of varying reliability.

Data on selected public water supply wells, which was provided by the PADEP, Bureau of Water Supply Management, has also been entered into the PaGWIS database. The PaGWIS contains information regarding 9,067 public water supply wells which were not present in either the WWI or the GWSI (DCNR, 2010). Many of these wells were constructed prior to the inception of the WWI database.

Data extracted from the PaGWIS for 25 mi (40 km) and 5 mi (8 km) radii around the BBNPP are listed in Table 2.3-37 and Table 2.3-38, respectively. The wells, for which location coordinates are available, are presented in Figure 2.3-92 and Figure 2.3-93 for 25 mi (40 km) and 5 mi (8 km) radii, respectively. These wells are categorized as public, industrial, domestic, commercial, and other uses (note: these wells include wells that were installed as monitoring wells). The area defined by the 25 mi (40 km) radius includes all of Columbia County, most of Luzerne County, and parts of seven other counties (Figure 2.3-92). The majority of the wells in Figure 2.3-92 are categorized as domestic use wells. Within the 5 mi (8 km) radius, there are a total of 19 public supply wells (Table 2.3-38). Six of these are located in Columbia County (in Berwick) and 13 are located in Luzerne County (and Figure 2.3-93).

PADEP maintains a second database containing information on Pennsylvania groundwater wells (PADEP, 2010d). Data entries extracted from the PADEP database for 25 mi (40 km) and 5 mi (8 km) radii are listed in Table 2.3-39 and Table 2.3-40, respectively. The locations of these wells are presented on Figure 2.3-94 and Figure 2.3-95, respectively. This database has fewer entries than the PaGWIS. Most of the wells within the 25 mi (40 km) radius (Figure 2.3-94) and all 13 of the wells present within a 5 mi (8 km) radius (Figure 2.3-95) are categorized as "industrial use" wells.

A third list of well users is maintained by PADEP, Division of Drinking Water Management, and is referred to as the Drinking Water Reporting System (PADEP, 2010c). The wells listed in this database provide public supply and can be searched by county and size. The wells listed for

Columbia and Luzerne counties are listed in Table 2.3-41. The largest water supply system in these two counties using groundwater is the Pennsylvania American Water Company-Berwick District, which serves a population of about 16,000 people through approximately 6,300 connections in five municipalities. Raw water is obtained from four wells located at the company's Canal Street pumping station in Berwick. These wells are screened in bedrock approximately 87 to 160 ft bgs, on the north bank of the Susquehanna River. The combined potential yield of the four wells is approximately 6.20 million gpd (2.35E07 lpd). The average production rate is 1.74 million gpd (6.58E+06 lpd) and the maximum daily production rate is 2.48 million gpd (9.39E+06 lpd) (PPL, 2006).

Community water systems are defined as those that serve the same people year-round (e.g., in homes or businesses). Non-transient non-community water systems are those that serve the same people, but not year-round (e.g., schools that have their own water system). Transient non-community water systems are those that do not consistently serve the same people (e.g., rest stops, campground, and gas stations). Table 2.3-39 lists the community, non-transient non-community, and transient non-community water systems using groundwater as their primary water source in Luzerne and Columbia counties.

Coordinates for the locations of the water systems listed in the Safe Drinking Water Information System (SDWIS) database for Luzerne and Columbia counties are not publicly released. The SDWIS for Luzerne and Columbia counties are maintained in the PADEP database. In addition, many of the addresses provided are mail drop locations for the owners of water systems and, for some, addresses are not provided. Therefore, a figure depicting the locations of these systems was not developed. Because the location of these water systems can not be accurately plotted, the nearest water system (beyond the boundary of the BBNPP property), is assumed to be near the town of Berwick, PA approximately 5 mi (8 km) to the southwest, as shown in Figure 2.3-93.

2.3.2.2.6 SSES Units 1 And 2 Groundwater Use

The SSES provides potable water for drinking, pump seal cooling, sanitation, and fire protection through its own onsite groundwater well system. This system consists of two wells (TW-1 and TW-2) which are located approximately 1,200 ft (366 m) northeast of the reactor building (Figure 2.3-96). Both of these wells are screened in the glacial outwash deposits (sand and gravel) and are approximately 75 ft (23 m) deep. The potential production capacities of wells TW-1 and TW-2 are 50 and 150 gpm (189 and 568 lpm), respectively (PPL, 1989). TW-2 is the primary well in the system (TW-1 serves as a back-up well).

Additional wells provide water for drinking and/or sanitary use for SSES-owned buildings adjacent to the plant site on a minor and intermittent basis. They are located at the West Building (formerly Emergency Operations Facility), Energy Information Center (EIC), and Riverlands Recreation Area (Figure 2.3-96). Although data available for these wells are not complete, it is believed that all five of these wells are screened in the glacial outwash and/or Susquehanna River alluvium.

2.3.2.2.7 Northeastern Pennsylvania Groundwater Demands

The PADEP, along with the Statewide Water Resources Committees, and six Regional Water Resources Committees, developed a State Water Plan in response to the Water Resources Planning Act (Act 220 of 2002). This plan was prepared in March 2008, and is periodically updated (PADEP, 2008d). The updated plan provides goals and recommendations to attain sustainable water use over a 30-year planning horizon. The plan includes inventories of water availability, an assessment of current and future water use demands, assessments of resource

management alternatives, and proposed methods of implementing recommended actions. One result of the plan is the identification and evaluation of Critical Water Planning Areas, where the water demand exceeds, or threatens to exceed, water availability. As of 2008, no areas have been designated as "critical" in the Susquehanna basin.

The SRBC has performed a similar effort. They recently published a "Groundwater Management Plan for the Susquehanna River Basin" in June 2005 (SRBC, 2005). The SRBC Plan has goals similar to the PADEP Plan, namely to monitor and manage the water resources in order to attain long-term sustainable use of the resource. The SRBC has identified several geographic areas in the Susquehanna River Basin where existing or projected groundwater withdrawals and uses are anticipated to exceed long-term sustainability or cause frequent conflicts between users. Areas where demand will exceed sustainable resources are termed Potentially Stressed Areas (PSAs) by the SRBC. Areas where the permeability of the rocks is low and the available groundwater resource is small are termed Water Challenged Areas (WCAs) (SRBC, 2005). SRBC-defined PSAs and WCAs are shown on Figure 2.3-97. To date, the SRBC has classified eight areas as PSAs and two areas as WCAs. As observed in Figure 2.3-97, there are no PSAs or WCAs located in or near Luzerne or Columbia counties.

The state projections for population trends predicts that Luzerne County will have a 7 percent decrease in population between 2000 and 2030 (PADEP, 2008b). This suggests that the demand for groundwater will also decline over the next 20 to 30 years. The abundant supply of groundwater and the declining demand for groundwater use in Luzerne and Columbia counties means that groundwater supplies will not be overdrafted in the two counties, and demand will not surpass available supplies in the future.

2.3.2.2.8 BBNPP Groundwater Use Projections

There is no planned use of onsite groundwater for the BBNPP during operation. All cooling makeup water will be obtained from the Susquehanna River. All water for drinking and several other smaller uses will be obtained from a public water supply.

2.3.2.2.9 BBNPP Groundwater Impacts

During construction, dewatering of the Glacial Outwash aquifer will be required in the ESWEMS pumphouse and cooling tower areas in order to excavate down to bedrock. A groundwater flow barrier will be installed around the ESWEMS Retention Pond area in order to: 1) minimize groundwater seepage into the excavation, 2) minimize impacts to the Glacial Outwash aquifer outside of the excavation area, and 3) maximize the stability of the excavation sidewalls during construction. Construction dewatering is discussed in more detail in Section 2.3.2.2.11. Because a groundwater flow barrier will be installed prior to excavation, the amount of groundwater that needs to be pumped and the resulting impacts to the shallow aquifer will be minimal.

During operation of the BBNPP, groundwater will not be pumped and will not be used in the plant. Therefore, the long-term impacts on groundwater levels, flow directions, and resources resulting from construction and operation of the BBNPP will be localized (less than 1,000 ft (305 m) radius around the plant) and will be SMALL.

2.3.2.2.10 Groundwater Monitoring

Groundwater monitoring (water level observation) of the BBNPP area was implemented through the use of the groundwater (monitoring) wells installed in Fall 2007 and Spring 2010 for the BBNPP site subsurface investigation (Section 2.3.1.2).

The Radiological Environmental Monitoring Program (REMP) for SSES Units 1 and 2 (PPL, 2007) and USNRC regulations contain no explicit requirements to routinely monitor groundwater onsite near plant facilities. By design, liquid effluents are not released to groundwater or structures that discharge to groundwater, and as such, there is no expected or intended human exposure pathway associated with groundwater for BBNPP. However, recent nuclear industry initiatives by the Nuclear Energy Institute, the Electric Power Research Institute, and USNRC assessments (USNRC, 2006) of existing nuclear reactors are currently developing guidance documents for the implementation of USNRC regulation 10 CFR 20.1406 (CFR, 2007b) relating to groundwater monitoring for both operating and future nuclear reactors. Groundwater monitoring near plant facilities will provide an early indication if unexpected releases through system leaks or failures have occurred and are impacting the environment beyond expected pathways. Development of these guidance documents concerning groundwater protection is being followed and future requirements will be addressed, as applicable, for inclusion in the BBNPP REMP.

Safeguards will be used to minimize the potential of adverse impacts to groundwater by construction and operation of BBNPP. These safeguards will include the use of lined containment structures around storage tanks (where appropriate), hazardous materials storage areas, emergency cleanup procedures to capture and remove surface contaminants, and other measures deemed necessary to prevent or minimize adverse impacts to groundwater beneath the BBNPP site.

2.3.2.2.11 Site Characteristics for Subsurface Hydrostatic Loading and Dewatering

The need to dewater prior to and during construction exists in part because the construction of critical safety related structures will require excavation of soil and weathered rock as well as placement of engineered fill beneath foundations. This section will provide descriptions of dewatering activities, explain the impact that site activities will have on groundwater levels during and post-construction, and will also describe the hydrostatic loading anticipated once construction is complete. The final section will discuss post construction dewatering issues and the environmental impacts (if any) that may result.

2.3.2.2.11.1 Dewatering During Construction

During construction activities, three different site areas will be excavated down to competent bedrock. These three areas include:

- the Power Block area,
- the ESWEMS Retention Pond area, and
- the area beneath the Cooling Towers.

During excavation, variable amounts of groundwater will be encountered at each of these three areas. Because the excavation, backfilling, and construction activities need to be performed in dry conditions, temporary groundwater controls will be required during construction. The groundwater elevations will be drawn downward to below the deepest portion of each excavation with dewatering wells and/or sumps. Once construction has been completed in each area, the pumps will be turned off, and groundwater elevations are expected to rebound to levels approximately equal to or slightly lower than the pre-construction groundwater elevations.

The Power Block area is underlain by approximately 10 to 35 feet (3 to 11 m) of silty, sandy glacial till and clayey weathered shale, and 75 to 90 feet (23 to 27 m) of fractured and/or

weathered Mahantango Shale. Current groundwater elevations in the bedrock beneath the Power Block area range from 661.69 to 712.03 ft (201.68 to 217.03 m), with an average groundwater elevation of 689.58 ft (210.18 m). Groundwater flow in the shallow bedrock beneath the Power Block area is to the south and southwest. The basal portion of the unconsolidated overburden is saturated; therefore, the overburden will need to be dewatered and stripped off the rock surface prior to excavation into the weathered shale. The excavation will proceed through weathered and/or fractured shale . The deepest portion of the excavation will be at an elevation of approximately 624 ft (190 m).

The current anticipated dewatering program will include the installation of dewatering wells around the perimeter of the excavation. Dewatering of the hilltop will commence prior to excavation, and will extend throughout excavation activities in order to maintain dry conditions within the excavation at all times. The dewatering wells may be augmented by or entirely replaced with sumps and sump pumps in the bottom of the excavation. Groundwater elevations in the excavation area will be kept below the floor of the excavation, which means that groundwater elevations will eventually be drawn below 624 ft (190 m). The amount of groundwater that will need to be pumped to keep the excavation dry during construction was estimated using a steady-state, three-dimensional, seven layer, finite-difference groundwater flow model developed using the Visual MODFLOW software package. Based on the results of the modeling, the Power Block dewatering system will need to extract approximately 50 gpm (189 lpm) to keep the excavation dry. The initial pumping rate will need to be slightly higher in the beginning stages of dewatering. The actual required pumping rate will be partially dependent on when the dewatering system is implemented and how fast the excavation proceeds downward.

Groundwater flow in the low topographic areas occurs primarily in the Glacial Outwash (sand and gravel) aquifer. The saturated aquifer thickness is approximately 30 to 55 ft (9 to 17 m) beneath the ESWEMS Retention Pond area. The groundwater elevations in the Glacial Outwash aquifer range from 655.66 to 665.07 ft (199.85 to 202.71 m) in the vicinity of the ESWEMS Retention Pond during the 2007-2008 and 2010-2011 investigations. Groundwater within this aquifer is generally flowing to the south and southwest toward Walker Run and Tributary No. 1 (see Section 2.3.1.2), and is likely to be the source of a majority of the seepage into the excavation during the construction of the ESWEMS Retention Pond. The saturated thickness of the Glacial Outwash aquifer at this location is approximately 20 ft (6 m) greater than the saturated thickness in the vicinity of the other excavation areas. The excavation in this area will be required to extend down to competent bedrock, which is at a minimum elevation of approximately 612 ft (187 m).

The groundwater model predicts that approximately 920 gpm (3,482 lpm) of groundwater will need to be pumped continuously from the area to keep the ESWEMS Retention Pond excavation dry during construction. Based on the groundwater modeling results, the dewatering effort will likely impact a wetland area immediately northwest of the ESWEMS Retention Pond area and a larger wetland adjacent to Tributary No. 1 (south of the ESWEMS Retention Pond area). The model predicts that groundwater elevations in the Glacial Outwash aquifer (steady-state) could be lowered approximately 15 to 25 ft (4.6 to 7.6 m) in the wetlands immediately northwest of the Pond area and 20 to 35 ft (6 to 11 m) beneath the wetlands adjacent to Tributary No. 1.

In order to reduce the amount of groundwater extraction that will be required during construction of the ESWEMS Retention Pond area, and to minimize the impacts to the wetland areas, a groundwater flow barrier (e.g., soil-bentonite slurry wall) will be installed around the

entire ESWEMS Retention Pond area (including the Pumphouse) and will extend downward to the bedrock surface. The flow barrier will greatly reduce the dewatering rate and the number of dewatering wells required to keep the excavation dry. With the installation of a flow barrier, the pumping rate required to keep the excavation dry will be approximately 230 gpm (871 lpm). This pumping rate (230 gpm (871 lpm)) is 25 percent of the pumping rate required without a flow barrier (i.e., 920 gpm (3,482 lpm)). The predictive groundwater flow model estimates that during dewatering the drawdown in groundwater elevation beneath the wetlands will be only 5 to 10 ft (1.5 to 3.0 m) with the installation of the flow barrier.

In the vicinity of the cooling towers (i.e., MW303A), the elevation of the groundwater in the Glacial Outwash aquifer ranged from 712.12 to 721.17 ft (217.05 to 219.81 m) during the 2007-2008 and 2010-2011 investigations. The cooling towers lie in an area that is at or very near a groundwater divide. As a result, shallow groundwater is flowing both to the east toward Tributary No. 1 and to the west toward Walker Run (Figure 2.3-55 through Figure 2.3-62). The excavation in the vicinity of the cooling towers will proceed down to competent bedrock; therefore, the excavation will likely intersect the Glacial Outwash aquifer, which would require dewatering. However, in this area, the thickness of the Glacial Outwash aquifer (approximately 24 to 35 ft (7 to 11 m)) is less than in the vicinity of the ESWEMS Retention Pond area, as is its saturated thickness. As a result, a groundwater flow barrier is likely unnecessary for dewatering purposes. According to the groundwater modeling results, a continuous pumping rate of approximately 70 gpm (265 lpm) will be required to keep the excavation in the vicinity of the cooling towers dry during construction.

In order to keep the three excavations dry, a cumulative dewatering rate of approximately 350 gpm (1325 lpm) will be required. This cumulative dewatering rate includes the installation of a flow barrier around the entire ESWEMS Retention Pond and Pumphouse Area. In the vicinity of the ESWEMS Retention Pond and cooling towers, dewatering of the Glacial Outwash aquifer is required; therefore, the majority of dewatering will be achieved with shallow dewatering wells. In the Power Block area, the saturated thickness of the overburden is minimal; therefore, the majority of dewatering may be achieved with sump pumps in the floor of the excavation. The dewatering system design will be developed and finalized closer to the time of construction.

Groundwater extracted by the dewatering system could be routed to the wetlands during construction activities in order to minimize the hydrologic impacts to the wetlands.

2.3.2.2.11.2 Maximum Groundwater Elevations During Operation

The U.S. EPR standard design has been selected as the NPP design for construction at the BBNPP. The safe operation of this design is based on a set of conservatively established site characteristics that are required to meet the design criteria. The U.S. EPR FSAR (Rev. 1, Tier 1 Table 5.0-1 and Tier 2 Table 2.1-1) specifies that the maximum groundwater levels should be at least 3.3 ft (1.0 m) below ground surface (i.e., grade level) in the vicinity of safety-related structures (AREVA Nuclear Power, 2009).

In the vicinity of the Power Block, an excavation to competent bedrock will remove the glacial till and weathered shale. Following completion of the building foundations, the remainder of the excavation will be backfilled to an elevation of 719 ft (219 m) (i.e., finished plant grade) with engineered fill (granular) material, which will have a higher porosity and permeability than the existing bedrock. A majority of the surface area in the vicinity of the Power Block area will be impermeable due to the presence of buildings, sidewalks, and parking areas; therefore, recharge to the groundwater system in this developed area will be reduced in comparison to

currently existing conditions. In addition, swales, culverts, and storm sewers will be installed to rapidly convey surface water away from the Power Block area, thereby further minimizing infiltration. As a result of these predicted post-construction conditions, post-construction groundwater elevations within the area are likely to be equal to or less than current elevations.

The final finished plant grade for the Power Block area will be elevation 719 ft (219 m). Therefore, the maximum expected post-construction groundwater elevation in the Power Block area must be below the design criterion of elevation 715.7 ft (218 m). A total of 12 monitoring wells have been installed in the shallow bedrock beneath the Power Block area (Figure 2.3-31). Three of these wells (MW310B, MW318B, and MW319B) were installed during the 2007-2008 investigation, with the remainder (MW401 through MW409) installed during the 2010-2011 investigation. Groundwater elevations for all the monitoring wells have been measured monthly between May 2010 and April 2011. These data are listed in Table 2.3-20.

During the initial investigation, two monitoring wells (MW318B and MW319B) were installed in geotechnical borings and have screen elevations that are higher than the other wells (see Table 2.3-18). The screen intervals of these two monitoring wells intersect the top of bedrock, which is fractured and in hydraulic communication with the overlying glacial till. The screen elevation of monitoring well MW318B is above the finished plant grade level designed for the Power Block (719 ft (219 m)); therefore, the geologic materials monitored by monitoring well MW318B will be excavated during construction activities. The rock that surrounds the MW319B well screen is below the projected finished plant grade elevation of 719 ft (219 m), and will be removed during excavation and replaced with engineered fill. Because these two monitoring wells are screened at such high elevations and are monitoring fractured rock that is in hydraulic connection with the overlying glacial till and will be excavated during construction activities, the water levels measured in them are not considered representative of projected post-construction groundwater elevations in the competent, unweathered bedrock. Therefore, the data for these two wells were not used to assess post-construction groundwater elevations beneath the Power Block area. Monitoring well MW402 is located in the far northeast corner of the Power Block area (Figure 2.3-31) and is not close to any safety-related buildings. Therefore, the groundwater data for this well have also been excluded from the evaluation of projected groundwater levels that will exist beneath the safety-related buildings in the Power Block area.

Based on water level measurements made in the nine remaining shallow bedrock wells located in the vicinity of the Power Block, the maximum groundwater elevation 712.03 ft (217.03 m)) and average groundwater elevation 689.58 ft (210.85 m)) are both below the U.S. EPR maximum allowable elevation of 715.7 ft (218.1 m). Thus, the U.S. EPR safety requirement regarding groundwater elevations in the vicinity of the Power Block will be met during the operational phase of the NPP. There is no exception to the U.S. EPR requirement that post-construction groundwater levels must be at least 3.3 ft (1 m) below grade.

Both the ESWEMS Retention Pond and Pumphouse are safety-related structures. The final proposed ground elevation in this area will range between elevation 696 and 701 ft (212 and 214 m). Therefore, maximum groundwater elevations in the ESWEMS Retention Pond and Pumphouse area must be below the U.S. EPR design criterion of 692.7 ft (211.1 m). Four monitoring wells (MW302A1, MW302A2, MW302A3, and MW302A4) were installed in the Glacial Outwash aquifer in the vicinity of the ESWEMS Retention Pond and Pumphouse during the initial 2007-2008 investigation, and one additional monitoring well (MW410) was installed in the area during the Phase 2 investigation (Figure 2.3-31). Monitoring wells MW302A1

through MW302A4 are located on the southeast side of the pond and MW410 is located on the west side of the pond, immediately adjacent to the ESWEMS Pumphouse (Figure 2.3-31).

The groundwater elevations measured in these five wells have been evaluated to determine whether the maximum expected post-construction groundwater elevation in the ESWEMS Retention Pond and Pumphouse area will equal or exceed the maximum allowable elevation of 692.7 ft (211.1 m) (the design specification).

Similar to the Power Block area, recharge to the groundwater system due to rainfall and snowmelt in the vicinity of the ESWEMS Retention Pond and Pumphouse will be greatly reduced due to the removal of surface soils, construction of buildings, paving, and the construction of other surface features. Futhermore, installation of surface drainage systems and storm drains will rapidly convey surface water away from the ESWEMS Retention Pond area and upgradient areas, thereby reducing subsurface recharge. Therefore, it is assumed that post-construction groundwater elevations will be no higher than current elevations in the ESWEMS Retention Pond area, and will likely be lower. Identifying the maximum groundwater elevation that currently exists in this area will conservatively estimate the maximum groundwater elevation that is likely to occur after construction.

Groundwater elevations for the monitoring wells installed during the initial investigation (MW302A1 through MW302A4) were measured monthly from November 2007 through October 2008. The data are listed in Table 2.3-19. During the 2010-2011 investigation, groundwater elevations in these monitoring wells, along with monitoring well MW410, were measured monthly from May 2010 through April 2011; the data are listed in Table 2.3-20. These data have been pooled together and statistics (maximum, average, and minimum groundwater elevations) were calculated. These values are 665.07, 659.69, and 655.66 ft (202.71, 201.07, and 199.85 m), respectively. These groundwater elevations are well below the U.S EPR required level of 692.7 ft (211.1 m).

Groundwater elevations will continue to be monitored, and any observed deviations in groundwater elevations potentially impacting the current design bases will be addressed.

2.3.2.2.11.3 Hydrostatic Loading During Operation

Construction dewatering activities will lower the groundwater elevations in the excavation areas to keep them dry during construction, as is described in Subsection 2.3.2.2.11.1. Following completion of the construction activities, the groundwater elevations will be allowed to return to the pre-construction maximum height, as described in Subsection 2.3.2.2.11.2. The maximum expected groundwater elevation beneath the Power Block area after construction is 712.03 ft (217.03 m). The base elevation for the Nuclear Auxiliary Building (the deepest safety-related foundation in the Power Block) will be at 677.5 ft (206.5 m). Based on the expected maximum groundwater level, the post-construction hydrostatic loading on the base of the Nuclear Auxiliary Building will be 34.53 ft (10.52 m) (i.e., 712.03 ft - 677.5 ft = 34.53 ft). Hydrostatic loading will be less in the shallower substructures in the Power Block area.

In the ESWEMS Retention Pond area, the maximum expected post-construction groundwater elevation beneath the Pumphouse will be 665.07 ft (202.71 m). The base elevation for the ESWEMS Pumphouse will be at 695.00 ft (211.84 m). The base elevation of the Pond will be 677.5 ft (206.5 m). Based on this expected maximum groundwater level, there will be no post-construction hydrostatic loading on the base of the Pumphouse or the ESWEMS

Retention Pond, as the groundwater elevation will be below the base elevations of both structures.

2.3.2.2.11.4 Permanent Dewatering System During Operation

The maximum projected water-table surface is expected to be at least 13 ft (4 m) below the Plant Grade (Power Block area) and at least 32 ft (10 m) below ground surface elevation in the ESWEMS Retention Pond area after construction. As a result, no permanent groundwater dewatering system will be used during operation of BBNPP. Groundwater elevations will continue to be monitored during operation to ensure that they meet the U.S. EPR design bases.

2.3.2.3 References

AREVA Nuclear Power, 2009. U.S. EPR Final Safety Analysis Report, Tier 2, Chapter 2 - Site Characteristics, Revision 1, Table 2.1-1, Docket No. ML09167 1388, 29 May 2009.

CFR, 1998. 40 CFR Part 122, EPA Administered Permit Programs: The National Pollutant Discharge Elimination System. Website: http://www.epa.gov/npdes/regulations/122_26.txt, Date accessed: September 30, 2008.

CFR, 2007a. Water Pollution Control Act, Title 33, Code of Federal Regulations, Part 1251.

CFR, 2007b. 10 CFR 20.1406, Minimization of Contamination, Sept. 28, 2007.

COP, 2006. Specific Water Quality Criteria, 25 Pa. Code Section 93.7, Website: http://www.pacode.com/secure/data/025/chapter93/025_0093.pdf , Date accessed: April 30, 2008.

Crowl, 1980. Glacial Border Deposits of Late Wisconsinan Age in Northeastern Pennsylvania, Pennsylvania Bureau of Topographic and Geologic Survey, General Geology Report 71, G.H. Crowl and W.D. Sevon, 1980.

CWA, 1948. Federal Water Pollution Control Act, (33 U.S.C. 1251 - 1376.) Website: http://www.fws.gov/laws/lawdigest/FWATRPO.HTML, Date accessed: September 30, 2008.

DCNR, 2010. Pennsylvania Groundwater Information System (PaGWIS) Documentation, Pennsylvania Department of Conservation and Natural Resources, Website: http://www.dcnr.pa.us/topogeo/groundwater/PaGWIS/help.aspx, Date accessed: August 26, 2010.

ESRI, 2007. StreetMap Pro [CD-ROM], 2007 Rivers, Waterbodies, Roads, and County Boundaries.

Federal Register, 2006a. Part III. Susquehanna River. Basin Commission. 18 CFR Parts 803, 804, 805 et al. December 29, 2006. Website: http://edocket.access.gpo.gov/2006/pdf/E6-21674.pdf , Date accessed: August 5, 2008.

Federal Register, 2006b. Part III. Susquehanna River. Basin Commission. 18 CFR Parts 803, 804, 805 et al. July , 2006. Website: http://edocket.access.gpo.gov/2006/06-5632.htm, Date accessed: August 5, 2008.

FEMA, 2008. Flood Insurance Rate Map, Luzerne County. Federal Emergency Management Agency, Website: http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1, Date accessed: March 27, 2008.

Hollowell, 1971. Hydrology of the Pleistocene Sediments in the Wyoming Valley, Luzerne County, PA, Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 28, J.R. Hollowell, 1971.

Lohman, 1937. Ground Water in Northeastern Pennsylvania, Pennsylvania Geological Survey, 4th Series, Bulletin W4, S.W. Lohman, 1937.

PADEP, 2008a. Water Withdrawal and Use Registration, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/dep/DEPUTATE/Watermgt/wc/Act220/Registration/Defaultnew.htm, Date accessed: February 6, 2008.

PADEP, 2008b. State Water Planning, Population Projections 2000, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Act220/2000population_projections.htm , Date accessed: March 7, 2008.

PADEP, 2010a. Water Resources from PASDA, published by Pennsylvania Department of Environmental Protection, Website: http://www.pasda.psu.edu/data/dep/, Date accessed: June 2010.

PADEP, 2010b. Water Pollution Facility (NPDES) from PASDA, published by Pennsylvania Department of Environmental Protection, Website: http://www.pasda.psu.edu/data/dep/, Date accessed: November 23, 2010.

PADEP, 2010c. Survey Information. Water Supply Data for Luzerne and Columbia Counties, Pennsylvania Department of Environmental Protection, Website: http://www.drinkingwater.state.pa.us/dwrs/HTM/DEP_frm.html, Date accessed: November 5, 2010.

PADEP, 2010d. Ground Water Withdrawal. Pennsylvania Department of Environmental Protection, Website http://www.pasda.psu.edu/data/dep/WaterResources2008_04.zip, Date accessed: August 26, 2010.

PADEP, 2008c. Overview Water Resources Planning Act, Pennsylvania Department of Environmental Protection, Website: http://www.dep.state.pa.us/dep/deputate/watermgt/wc/subjects/WaterResources/docs/WaterResourcesExecutiveSummary.htm , Date accessed: March 25, 2008.

PADEP, 2008d. Pennsylvania State Water Plan, A Vision for Pennsylvania's Future, Pennsylvania Department of Environmental Protection, March 21, 2008.

PPL, 1989. Site Well System (PWS ID 2400994). Pennsylvania Power & Light-Susquehanna, LLC, Pennsylvania Form ER-BCEC-47:11/84 on file with PADEP, Division of Water Supplies, 4 p.

PPL, 2006. Susquehanna Steam Electric Station Units 1 & 2, License Renewal Application, Pennsylvania Power & Light-Susquehanna, LLC.

PPL, 2007. Susquehanna Steam Electric Station Units 1 and 2, 2006 Annual Report, Annual Radiological Environmental Report, Pennsylvania Power & Light-Susquehanna, LLC.

SRBC, 2002. Guidelines for Using and Determining Passby Flows and Conservation Releases for Surface Water and Groundwater Withdrawal Approvals. Susquehanna River Basin Commission, November 8. Website: http://www.srbc.net/policies/docs/Policy%202003_01.pdf, Date accessed: May 5, 2008.

SRBC, 2005. Groundwater Management Plan for the Susquehanna River Basin. Susquehanna River Basin Commission, Publication No. 236.

SRBC, 2007. Pennsylvania Agricultural Consumptive Water Use. January, 2007. Susquehanna River Basin Commission, Website: http://www.srbc.net/pubinfo/docs/Agricultural%20Water%20Use%20(1_07).pdf, Date accessed: May 5, 2008.

SRBC, 2008a. Middle Susquehanna Subbasin, Susquehanna River Basin Commission, Website: http://www.srbc.net/subbasin/middlsus.htm, Date accessed: February 19, 2008.

SRBC, 2008b. Susquehanna River Basin Commission, Information Sheet, Website: http://www.srbc.net/pubinfo/docs/Susq%20River%20Basin%20General%20(11_06).PDF, Date accessed: June 19, 2008.

Taylor, 1984. Groundwater Resources of the Upper Susquehanna River Basin, Pennsylvania. Pennsylvania Bureau Topographic and Environmental Survey, Water Resources Report 58, L.E. Taylor, 1984.

Trapp, 1997. Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia, Ground Water Atlas of the United States, U.S. Geological Survey, Hydrologic Investigations Atlas 730-L, H. Trapp and M. Horn.

USEPA, 2008b. U.S. EPA Region 3 Water Protection Division Sole Source Aquifer Program, U.S. Environmental Protection Agency, Website: http://www.epa.gov/reg3wapd/presentations/ssa/index.htm, Date accessed: January 9, 2008.

USEPA, 2008a. PPL Susquehanna, LLC; SSES, Units 1 & 2; Draft Environmental Assessment and Finding of No Significant Impact Related to the Proposed License Amendment to Increase Maximum Reactor Power Level. U.S. Environmental Protection Agency, Website: http://www.epa.gov/fedrgstr/EPA-IMPACT/2007/December/Day-05/i23537.htm , Date accessed: February 5, 2008.

USGS, 2008. Estimated Water Withdrawals and Use in Pennsylvania, 1995. U.S. Geological Survey, Website: http://pa.water.usgs.gov/reports/fs174-99.html Date accessed: June 11, 2008.

USNRC,2006. Liquid Radioactive Release Lessons Learned Task Force, Final Report, U.S. Nuclear Regulatory Commission, Sept. 1, 2006.

Williams, 1987. Groundwater Resources of the Berwick-Bloomsburg-Danville Area, East-Central Pennsylvania. Pennsylvania Bureau of Topographic and Geologic Survey, Water Resource Report 61, J.H. Williams and D.A. Eckhardt, 1987

2.3.3 Water Quality

This section describes the site-specific water quality characteristics that could directly be affected by plant construction and operation or that could affect plant water use and effluent disposal within the vicinity of the BBNPP site. Site-specific water quality data were obtained through the Susquehanna Steam Electric Station (SSES) annual reports, Ecology III annual reports, and a baseline investigation of BBNPP surface water and groundwater systems that was performed between October 2007 and March 2011.

The BBNPP site is located in Salem Township, Luzerne County, Pennsylvania (PA), on the northwest side of the North Branch of the Susquehanna River (NBSR), as shown on Figure 2.3-1. The BBNPP site is situated in the Walker Run watershed, which has a drainage area of approximately 4.32 mi^2 (11.16 km^2) (Figure 2.3-3). The site is also adjacent to the SSES in an area of open deciduous woodlands, interspersed with cultivated fields and orchards. The site sits on a relatively flat upland area, approximately 219 ft (67 m) above the NBSR water level, as shown in Figure 2.3-2 and Figure 2.3-3. Detailed information about the water bodies nearest to the site is provided in Section 2.3.3.1.

The section on surface water quality (Section 2.3.3.1) includes a presentation of data for the most significant surface water body in the area, the NBSR (Table 2.3-45, Table 2.3-46, Table 2.3-42, and Table 2.3-42). In addition, water quality data for small creeks and ponds in the area are presented in Table 2.3-42, Table 2.3-47, Table 2.3-49, and Table 2.3-50. The section on groundwater quality (Section 2.3.3.2) presents data for the Glacial Outwash aquifer and the Shale Bedrock aquifer in Table 2.3-43, Table 2.3-44, Table 2.3-48, Table 2.3-51, and Table 2.3-52.

Historical Water Quality in the North Branch of the Susquehanna River (NBSR)

Water quality sampling in the NBSR near the SSES began in the 1960's when the area was first being investigated for a NPP. Two sampling locations on the NBSR (SSES and Bell Bend; Figure 2.3-32) were established in 1968 and have been sampled since. Data for these sampling locations are summarized in Table 2.3-45, Table 2.3-46, and Table 2.3-42.

Baseline Water Quality Study for BBNPP

The BBNPP site-specific data were collected during a site baseline investigation, beginning in 2007. The baseline sampling was performed in:

- autumn (October) 2007,
- winter (February), spring (April), summer (July), and autumn (October) 2008,
- summer (June), autumn (September), and winter (December) 2010, and
- spring (March) 2011

Data from this study were developed to serve as a baseline reference so that potential water quality impacts due to the construction and operation of the BBNPP can be assessed.

A one-time analysis of drinking water parameters was performed on groundwater samples collected in February 2008. The Pennsylvania Drinking Water Standards (DWSs) are regulated by PADEP under Title 25 Pa. Code, Chapter 109, Safe Drinking Water (PADEP, 2006b). The standards apply to public water systems and are not applicable to the groundwater or surface water at the BBNPP site. However, these analyses were performed during the February 2008 round of sampling largely to qualify the presence or absence of Volatile Organic Compounds (VOCs) and Synthetic Organic Chemicals (SOCs), including pesticides, at the site.

The chemical, biological, and physical parameters analyzed in samples collected quarterly for the site-specific investigation are listed in Table 2.3-42, Table 2.3-43, and Table 2.3-47 through Table 2.3-52. Additional select parameters analyzed for the one-time analytical event for groundwater in February 2008 are listed in Table 2.3-44.

Water Quality Standards

The language of the Federal and Pennsylvania water quality regulations use the terminology "contaminant," "toxic," or "pollutant" in describing the presence of chemical substances. It must be emphasized that the baseline water quality study described herein examines the presence of known, common parameters corresponding to analytes recommended in guidance documents or reported in other studies. No assumptions were made about the sources, distribution, or dispersion of any of the parameters examined if detected. Nor does the presence of these analytes above the method reporting level imply contamination, health risks, or history of releases at the site.

Parameter Selection Criteria

The analytical parameters and methods used for the BBNPP Baseline Program were selected based upon existing regulations and ongoing SSES monitoring programs:

1. Nuclear Regulatory Commission's NUREG-1555 guidance document (NRC, 1999);

2. The SSES's National Pollutant Discharge Elimination System (NPDES) permit (PADEP, 2008a);

3. Pennsylvania Department of Environmental Protection Specific Water Quality Criteria for the Susquehanna River in the Vicinity of the SSES (PADEP, 2006a);

4. Water quality parameters examined during routine environmental monitoring of water quality and fishes in the NBSR by Ecology III (Ecology III, 2003-2007); and

5. REOR Annual Reports - The SSES regular operational Radiological Environmental Monitoring Program (REMP) of groundwater and surface water as reported in the PPL Annual Radiological Environmental Operating Report (REOR) (PPL, 2003-2007).

2.3.3.1 Surface Water

The most significant surface water body in the area is the NBSR. The NBSR is the source of cooling water for the SSES and the BBNPP. In addition, all surface water and groundwater discharging from the BBNPP will ultimately reach the NBSR. Section 2.3.1.1.1 presents water quality data for the NBSR.

Four very small creeks are located in the immediate vicinity of the BBNPP. Walker Run flows southward along the western side of the BBNPP site and continues southward to the NBSR. Unnamed Tributary No. 1 flows off the ridge located north of BBNPP, enters the Site near monitoring station G3, flows along the northeastern and eastern sides of the site, turns westward and flows along the southern side of the site near G12, and enters Walker Run on the southwestern side of the site (Figure 2.3-3 and Figure 2.3-32). Unnamed Tributary No. 2 discharges as seeps from the small hills located on the northern side of the BBNPP site, passes through an agricultural drainage pipe (surface water monitoring station G11), and then enters Unnamed Tributary No. 1 near station G12 (see Figure 2.3-32). Unnamed Tributary No. 3 (Figure 2.3-3) flows southeastward from the BBNPP site and empties into the NBSR about 0.8 mi (1.3 km) upstream from the Walker Run confluence. A description of the physical and hydrological characteristics of the river and creeks is provided in Section 2.3.1. Analytical data for these four small creeks are presented in Table 2.3-42, Table 2.3-47, Table 2.3-49, and Table 2.3-50 and discussed in Section 2.3.3.1.2. In addition, four small ponds are located on or directly adjacent to the BBNPP site (Figure 2.3-32). Although samples have not been collected

from these ponds for laboratory analyses, field parameters (pH, temperature, specific conductance (SC), oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity) were measured in the ponds quarterly (Table 2.3-50 and Table 2.3-48).

Surface water samples are collected in pre labeled bottles for each location. A clean container without any preservatives is used to fill the sampling bottles at each surface water sampling location.

2.3.3.1.1 The Susquehanna River

The Susquehanna River is approximately 444 miles (715 km) in length and flows from its headwaters at Otsego Lake in Cooperstown, New York, to Havre de Grace, Maryland, where the river meets the Chesapeake Bay (SRBC, 2006).

In Pennsylvania, the NBSR flows south and east before turning southwest above Wilkes-Barre. The West Branch of the Susquehanna River joins the North Branch at Sunbury. From Sunbury, the Susquehanna River (main stem) flows south towards Harrisburg, being joined north of Harrisburg by another large tributary, the Juniata River. South of Harrisburg, the Susquehanna River again turns southeast toward the Mason-Dixon Line, forming the boundary between York and Lancaster counties. It empties into the northern end of the Chesapeake Bay (PADEP, 2008b).

More than three-quarters of the entire Susquehanna River basin lies in Pennsylvania (PADEP, 2008b). The BBNPP is located within the Middle Susquehanna River sub-basin (Figure 2.3-1). Upstream of the SSES and the BBNPP, the NBSR receives acid mine drainage (AMD) from old, abandoned, underground anthracite mine workings and runoff from abandoned surface mine sites and coal refuse piles. Besides AMD, the NBSR receives urban storm runoff, industrial discharges, agricultural runoff, discharges from sewage treatment plants, and discharges from other contaminant sources upstream of the SSES and the BBNPP. Overall, however, the water quality of the NBSR is relatively good and supports a healthy aquatic habitat and fishery (Ecology III, 2003-2007).

The SSES has been collecting water samples from the Susquehanna River at two sites since 1968. The "SSES" sampling site is located 750 ft (230 m) upstream of the SSES intake structure (Figure 2.3-32) and serves as the upstream control sampling site. The "Bell Bend" sampling site (also referred to as "SSES Indicator Site") is located 2,260 ft (690 m) downstream of the SSES blowdown discharge line (Figure 2.3-32). The location of the site was chosen in order to evaluate the impacts to the Susquehanna River due to the SSES blowdown discharge (Ecology III, 2003 - 2007). River samples were collected quarterly. The SSES river data for 1968 through 1977 are summarized in Table 2.3-45. The SSES river data for 2002 through 2006 have been averaged for each year and are presented in Table 2.3-46. The overall average water quality values (averages of the 2002-2006 yearly average data) are presented in Table 2.3-46.

In addition to the data collected by the SSES, the BBNPP site-specific water baseline quality sampling program included two sampling sites on the Susquehanna River. Site SR01 is collocated with the SSES Control sampling site, (upstream of the SSES blowdown discharge line). Site SR02 is located downstream of the BBNPP; downstream of the proposed BBNPP blowdown, discharge line, and downstream of the NBSR confluence with Unnamed Tributary No. 3 and Walker Run (Figure 2.3-32). Thus, SR02 is downstream of all potential surface water and groundwater discharges from the SSES and the BBNPP sites. This sampling site was chosen as a reference point to evaluate potential future impacts to the river due to construction and operation of the BBNPP. Analytical data for samples collected from SR01 and

SR02 are summarized in Table 2.3-42. Field parameters measured in the NBSR at the time of sampling are listed in Table 2.3-47.

pH and Alkalinity

Between 2002 and 2008, the NBSR water has been alkaline (total alkalinity range: 43 - 95 mg/L, as $CaCO_3$), with pH values typically between 7.20 and 7.80 (Table 2.3-42, Table 2.3-46, and Table 2.3-47). Between 1968 and 1977, the average total alkalinity (43.0 mg/L) and pH (7.18) values were on the lower end of the range, respectively (Table 2.3-45). These data suggest that the pH and the alkalinity of the river have increased over the past 30 years. The anthracite mining industry has declined greatly since the 1970s, and the acidity, iron, and sulfate contained in the abandoned mines and mine refuse piles have gradually leached away, resulting in improved river water quality over time.

Specific Conductance (SC), Total Mineral Solids (TMS), Total Dissolved Solids (TDS), and Total Hardness

Between 1968 and 1977, SC in the river ranged from 0.098 to 0.635 mS/cm, and averaged 0.297 mS/cm (Table 2.3-45). Between 2002 and 2004, the annual average SC has ranged from 0.226 to 0.238 mS/cm, and averaged 0.234 mS/cm at the SSES control site(Table 2.3-46). In 2008, the average SC of river water was 0.315 mS/cm (Table 2.3-47). Thus, the SC of the river water is almost identical to what it was in the 1970s.

The TMS, TDS, and total hardness are water quality parameters that are related to SC. Like SC, they reflect the total amount of inorganic constituents that are dissolved in the water. From 1968 to 1977, the average values of these three parameters were 190, 192, and 116 mg/L, respectively (Table 2.3-45). Between 2002 and 2006, the average values of TMS and hardness were 134 and 92 mg/L, respectively (Table 2.3-46). In 2008, TDS and hardness ranged from 110 to 250 mg/L and 65 to 140 mg/L, respectively (Table 2.3-42). Thus, these three water quality parameters have decreased since the 1970s. Again, this long-term improvement in general water quality is pimarily due to the decline of anthracite mining and general improvements of other types of water quality controls upstream of the SSES and BBNPP.

The values of SC, TMS, TDS, and total hardness are also related to flow rate in the river (Figure 2.3-98). As the flow rate increases during storm events and large snowmelt events, more surface runoff and direct precipitation enter the river, thereby diluting groundwater inputs into the river. This causes chemical concentrations to decline due to dilution during large storm and snowmelt events and high river flow. Conversely, surface water runoff and direct precipitation into the river decreases during drought and low-flow conditions. During these times, values of SC, TMS, TDS, and total hardness increase.

Dissolved Oxygen

In 2008, the dissolved oxygen (DO) in the NBSR averaged 12.5 mg/L (Table 2.3-47).

Between 2002 and 2006, the annual average (DO) ranged from 8.9 to 11.0 mg/L (Table 2.3-46). These data suggest that the river is well aerated and near oxygen saturation. Between 1968 and 1977, the average DO was similar (10.1 mg/L), but decreased on at least one occasion to a low of 5.8 mg/L (Table 2.3-45). The low value of DO was likely due to a flush of mineral acidity into the river in the 1970s, which consumes DO and could have caused such a short-term decline.

Dissolved oxygen goes through annual cycles. The solubility of DO is higher in cold water, so DO concentrations can be much higher in winter. As shown on Table 2.3-47, the DO at station SR01 was 21.3 mg/L on February 28, 2008, and was measured to be 7.08 mg/L on July 25, 2008 when the river water temperature was much higher.

Inorganic Nitrogen and Phosphorus Compounds (Nutrients)

Between 2002 and 2006, annual average nitrate (as N), ammonia (as N), and total phosphorus (as PO_4) concentrations have averaged 0.85, <0.10, and 0.19 mg/L, respectively (Table 2.3-46). These levels of nutrients are typical of a river that is slightly affected by agriculture and discharges from sewage treatment plants. The 2008 data ranged from undetectable to 0.73 mg/L for nitrate, and 0.08 to 0.27 mg/L for ammonia, and undetectable for total phosphorous (Table 2.3-42).

Metals

Between 2002 and 2006, monitoring at the two locations on the NBSR indicate that there were no elevated concentrations of minor trace metals, with the exception of total iron, which ranged from 0.57 to 1.43 mg/L (annual averages) (Table 2.3-46). In 2008, total iron ranged from 0.21 to 0.80 mg/L, and dissolved iron from undetectable to 0.28 mg/L (Table 2.3-42). Total and dissolved iron concentrations (average value: 3.2 and 0.42 mg/L, respectively) were much greater between 1968 and 1977 (Table 2.3-45), when the anthracite mining industry was still active and the number, flow rates, and iron concentrations of the AMD discharges were much greater. Total maganese was also noticeably higher in 1968 through 1977 (average value of 0.41 mg/L) (Table 2.3-45) compared to average values measured between 2002-2006 (0.11 mg/L) (Table 2.3-46) and the range measured in 2008 (0.056 to 0.1 mg/L (Table 2.3-42).

Biological Parameters

Fecal coliform bacteria, total coliform bacteria, and fecal streptococci were detected in each river sample in 2008 (Table 2.3-42). Farm animals, septic tanks, and discharges from sewage treatment plants upstream of the SSES likely account for the majority of the microbes detected in the river water.

Radionuclides

No tritium or gamma-emitting radionuclides were detected in the Susquehanna River in 2008 during the BBNPP site-specific sampling program (Table 2.3-42).

2.3.3.1.2 Small Creeks and Ponds

The BBNPP baseline surface water quality monitoring program included the measurement of field water quality parameters in nine small creek locations and four ponds, as shown on Figure 2.3-32. Field parameters were measured at some or all of these locations during six events in 2007 and 2008 , three events in 2010, and one event in 2011. The field data are listed in Table 2.3-47 and Table 2.3-49. Surface water samples were collected from four locations in small creeks (G1, G2, G3, and G5) on four occasions (February, April, July, and October) in 2008. Additionally, surface water samples were collected at three locations (G2, G4, and G11), in June 2010, and three locations (G1, G2, and G11) in September 2010. A surface water sample was collected at G1 rather than G4 in September 2010 due to the monitoring location being dry. Surface water samples at three locations (G2, G4 and G11) were collected in December 2010 and March 2011. These data are summarized in Table 2.3-42 and Table 2.3-50.

Monitoring station G1 is located on Walker Run west of the BBNPP Power Block (immediately downstream of the bridge where Walker Run flows under North Market Street). Station G2 is located on Walker Run downstream of the BBNPP site and downstream of where Unnamed Tributary No. 1 and the Pond G8 discharge enter Walker Run (Figure 2.3-32). Sampling Station G2 was selected to be far enough downstream of the BBNPP site such that any surface water runoff or groundwater seepage from the BBNPP site will enter Walker Run and pass beneath the bridge next to monitoring station G2. Thus, G2 is in an excellent position to monitor for any contaminant migration that could originate from the BBNPP site in the future.

Monitoring Station G3 is located on Unnamed Tributary No. 1 just before it passes beneath Beach Grove Road north of (and upstream of) the BBNPP site (Figure 2.3-32). Unnamed Tributary No. 1 currently flows south and west before it enters Walker Run (Figure 2.3-3). G11 is located at the end of Tributary No. 2, which is an agricultural drain that conveys groundwater discharging from wetlands located east of the Power Block area and north-northwest of the ESWEMS Pond area (Figure 2.3-3 and Figure 2.3-32). From G11, Unnamed Tributary No. 2 flows south and enters Unnamed Tributary No. 1, just west of Monitoring Station G12.

The source of Unnamed Tributary No. 3 is located in a small wetland area immediately south of the Unnamed Tributary No. 1 watershed (Figure 2.3-3). This creek flows intermittently southeastward, enters an oval, man-made pond, and then flows southward to a confluence with the NBSR (Figure 2.3-3). Monitoring Station G5 is located where Unnamed Tributary No. 3 passes beneath U.S. Route 11.

pH and Alkalinity

In 2007 and 2008, the pH values of the small creeks ranged between 6.41 and 8.30, but were typically between 7.0 and 7.9 (Table 2.3-47). In a period between 2010 and 2011, the pH values of the creeks ranged between 6.23 and 8.24, but were typically between 7.50 and 8.00 (Table 2.3-47). Overall, the small creeks have slightly alkaline water. The alkalinity of the creek waters ranged between 5.9 and 38 mg/L (as $CaCO_3$) in 2008 (Table 2.3-42). In a period between 2010 and 2011, the alkalinity of creek samples ranged between 0 and 30 mg/L (Table 2.3-50). These alkalinity values are lower than alkalinities found in the NBSR. The lower alkalinities of the small creeks, however, are to be expected since the specific conductance and TDS of the water in the small creeks are also low; hence, there is less buffering capacity in the small creeks (see discussion below).

The pH values of the ponds in 2007 and 2008 ranged between 5.97 and 8.20 (Table 2.3-47). In 2010, the pH in the four ponds ranged between 7.46 and 8.78 (Table 2.3-49). The pH values of ponds G8 and G9 are slightly lower than ponds G6 and G7. This might be attributed to a larger proportion of slightly acidic groundwater feeding ponds G8 and G9. As discussed in Section 2.3.3.2, the pH of groundwater in the Glacial Outwash aquifer is typically less than 7.00 (Table 2.3-43).

Specific Conductance (SC), Total Dissolved Solids (TDS), and Total Hardness

Except for monitoring station G12 on Unnamed Tributary No. 1, the SC of all creek waters was less than 0.193 mS/cm during both the 2007-2008 and 2010-2011 monitoring periods (Table 2.3-42 and Table 2.3-50). These values are at least 30 percent less than SC values detected in the NBSR.

In 2008, the TDS of four creek monitoring stations (G1, G2, G3, and G5) ranged from 45 to 180 mg/L (Table 2.3-42). In 2010, the TDS measured at four creek locations (G1, G2, G4 and G11) ranged from 15 to102 mg/L (Table 2.3-49). These values are significantly lower than historical levels of TDS and TMS measured in the NBSR, which averaged 192.2 and 190.3 mg/L, respectively between 1968 and 1977 (Table 2.3-45). Overall, the concentrations of total dissolved inorganic constituents in the four creeks and ponds (using TDS data and SC as a surrogate) are relatively low.

Dissolved Oxygen

In 2008 and 2010, the concentrations of DO in creek waters have typically been 6.08 mg/L or greater (Table 2.3-42 and Table 2.3-47), especially in winter months when the water temperatures are colder and DO is more soluble. DO concentrations were lower at creek stations G5 (7.70 mg/L) and G12 (7.79 mg/L) in July 2008, when creek water temperatures were higher. In general, waters in Walker Run and the tributaries appear to be well aerated and saturated with DO.

DO was generally above 7.09 mg/L in ponds G6 and G7 in 2008 and 2010 (Table 2.3-42 and Table 2.3-47, respectively). On occasion, DO fell below 3.0 mg/L in ponds G8 and G9. This occurred when water levels were very low and the water was stagnant in late summer and fall, or in winter when pond G9 was frozen over.

Inorganic Nitrogen and Phosphorus Compounds (Nutrients)

Nitrate, ammonia, total Kjeldahl nitrogen, organic nitrogen and total nitrogen were detected in the creeks, but at concentrations less than 1.5 mg/L in 2008 (Table 2.3-42) and and less than 5.1 mg/L in 2010-2011 (Table 2.3-49). Ammonia nitrogen was somewhat elevated (up to 0.43 mg/L) in Walker Run and the tributary creeks during both the 2008 and 2010 monitoring periods (Table 2.3-42 and Table 2.3-49). Orthophosphate was detected at 0.125 mg/L in one sample collected at Station G5 in October 2008 (Table 2.3-42).

Metals

All of the metal concentrations measured in the four small creeks were either low or not detectable (Table 2.3-42 and Table 2.3-49). Metal concentrations in the creeks were similar to concentrations measured in the NBSR, except for dissolved and total manganese, which commonly exceeded concentrations in the river. The creeks contain discharges from springs and wetlands (groundwater discharges) which commonly contain more manganese and iron than surface waters. Thus, the slightly higher concentrations of manganese in the creeks relative to the Susquehanna River is expected.

Biological Parameters

Fecal coliform bacteria and total coliform bacteria were detected in all creek samples in 2008 , 2010 and 2011 (Table 2.3-42 and Table 2.3-50, respectively). Fecal streptococci were detected in most samples. The maximum concentrations of these three parameters were above concentrations detected in the NBSR. Farm animals and septic tanks located in each watershed probably account for the majority of these detections. There is also a variety of wildlife in the area whose feces may be deposited in or drain into the creeks (USEPA, 2003; USEPA, 2008c).

Radionuclides

No tritium or gamma-emitting radionuclides were detected in the creeks in 2008, 2010 and 2011 during the BBNPP site-specific sampling program (Table 2.3-42 and Table 2.3-50).

2.3.3.1.3 Wastewater Treatment

All sanitary wastewaters will be sent to the Berwick Area Sewer Authority. Pipelines will be constructed and connected with the existing sanitary sewer systems.

This treatment of other wastewater effluents at BBNPP is limited to non-radioactive wastewater. Sources of non-radioactive effluents include plant blowdown, floor and equipment drains, and storm water runoff outside the radiological control areas of the power block. Wastewater treatment will employ mechanical, chemical, and/or biological processes. The treated effluent will be discharged to the Susquehanna River. The discharge quality will be in accordance with local and state safety codes, and comply with the site's NPDES permit limitations.

The BBNPP wastewater treatment operations will follow standard practices and use processes that are identical to wastewater treatment plants throughout the U.S. The BBNPP system may consist of all or many of the following components: a holding/debris tank, macerating pumps, oil/water separator, clarifiers, aeration blowers, diffusers, pre-treatment tanks, sludge holding tanks or lagoons, and the associated piping, instrumentation, and controls necessary for proper operation. The wastewater treatment piping, tanks, venting, and valving arrangements will be separated from the plant's radiological operation and treatment processes by appropriate isolation devices.

The plant's treatment systems will be sized to have sufficient capacity to hold or process treated effluent under peak anticipated demand or operational transitional conditions. The treated wastewater will meet all applicable health standards, regulations, and total maximum daily loads (TMDLs) set by PADEP and the USEPA.

For more in-depth details regarding the wastewater treatment, refer to Section 3.6.

2.3.3.2 Groundwater

No onsite groundwater will be used for actual operation of BBNPP. Susquehanna River water will be used to meet the cooling water demand requirements. Potable water will be purchased from a public water supplier and will be a source for drinking water and water for other non-cooling purposes during plant operation. A pipeline will be constructed to bring the potable water into the BBNPP facility.

The SSES, located adjacent to BBNPP, provides potable water for drinking, pump seal cooling, sanitation, and fire protection through its own onsite groundwater well system. This system consists of two wells (TW-1 and TW-2) which are located approximately 1,200 ft (366 m) northeast of the SSES reactor building. Three additional wells routinely provide water for drinking and/or sanitary use for SSES-owned buildings. Local groundwater use is discussed in Section 2.3.2.

Groundwater samples were collected from 11 monitoring wells around the BBNPP site. Five of the wells (MW301A, MW302A1, MW304A, MW305A1, and MW306A) are shallow and installed in the Glacial Outwash aquifer. The total depths of these wells range from approximately 35 to 43 ft (11 to 13 m) bgs. Six other wells, (MW301B1, MW304B, MW305B, MW405, MW407, and

MW409) are deeper and were installed in the shale bedrock (Shallow Bedrock aquifer). The total depth of these wells range from approximately 75 to 180 ft (23 to 55 m) bgs (Table 2.3-18).

Monitoring wells MW405, MW407, and MW409 are screened in shallow bedrock and are located on the hillside around the southern and southwestern sides of the Power Block area. Monitoring wells MW301A, MW301B1, and MW306A are located south and southwest of the Power Block area. The locations of the other wells that were sampled range from approximately 1,800 to 3,000 ft (549 to 915 m) from the approximate center of the BBNPP (Figure 2.3-31). MW302A1 is located on the east-central side, MW304A and MW304B are located on the far eastern side, and MW305A and MW305B are located on the north-northeastern side of the site. All monitoring well locations are shown on Figure 2.3-31.

Groundwater samples are collected in pre labeled bottles for each location. Groundwater samples are collected by way of pre-installed tubes in the wells which are connected to ground flux pumps and the required sample volume is pumped out.

2.3.3.2.1 Glacial Outwash Aquifer

Field parameters measured in the BBNPP monitoring wells are tabulated in Table 2.3-48 and Table 2.3-51. Laboratory analytical data are summarized in Table 2.3-43 and Table 2.3-52. There were no groundwater samples collected for laboratory analysis in the Glacial Outwash aquifer during 2010.

pH and Alkalinity

The pH values measured in groundwater samples collected from the Glacial Outwash wells ranged between 5.40 and 7.50 but were generally less than 7.00 (Table 2.3-48 and Table 2.3-51). The pH values in 6 out of 15 of these wells were consistently below 6.0 (Table 2.3-48 and Table 2.3-51). Only one of the wells (MW307A) had a pH value consistently above 7.0. The total alkalinity measured in five Glacial Outwash wells, for which laboratory analyses were performed, ranged from non-detect to 52 mg/L (Table 2.3-43). Overall, the shallow groundwater in the Glacial Outwash aquifer ranges from neutral to moderately acidic.

Specific Conductance (SC), Total Dissolved Solids (TDS), and Total Hardness

The SC of groundwater from the Glacial Outwash aquifer ranged from 0.048 mS/cm in well MW302A4 to 0.469 mS/cm in well MW309A, with a median value of 0.181 mS/cm for all wells in the Glacial Outwash aquifer (Table 2.3-48 and Table 2.3-51). The highest SC values were encountered in wells MW309A, MW307A, MW305A2, and MW304A (Table 2.3-48 and Table 2.3-51). The lowest SC values were encountered in wells MW301A, MW302A1, MW302A4, MW305A1, MW308A, and MW310A this group.

The TDS in the Glacial Outwash aquifer ranged from 85 to 170 mg/L, which is similar to the TDS range detected in the creeks (Table 2.3-42). The total hardness measured in the groundwater from the Glacial Outwash aquifer ranged from 49 to 100 mg/L, which is greater than the values typically measured in the creeks (22 to 50 mg/L) but similar to the concentrations detected in the Susquehanna River (65 to 140 mg/L)(Table 2.3-42, Table 2.3-45, Table 2.3-46, Table 2.3-50).

Dissolved Oxygen

The DO measured in the Glacial Outwash aquifer wells ranged from 0.0 to 8.30 mg/L; however, most values were less than 6.0 mg/L (Table 2.3-48 and Table 2.3-51). The lowest values occurred in wells MW302A1, MW302A2, MW410, MW305A1, MW305A2, and MW308A. The highest values occurred in wells MW301A, MW302A4, MW303A, MW306A, MW309A, and MW310A (Table 2.3-48 and Table 2.3-51). Overall, the Glacial Outwash aquifer has much greater DO concentrations when compared to the Bedrock aquifer (discussed below). This suggests that the upward flow of groundwater from the shale bedrock is low in most places relative to the lateral flow of groundwater in the Glacial Outwash aquifer or the rate of recharge from the ground surface.

Inorganic Nitrogen and Phosphorus Compounds (Nutrients)

Nitrate and ammonia were detected in some or all of the Glacial Outwash wells at low to moderate concentrations (Table 2.3-43). The maximum concentration of ammonia (0.22 mg/L as N) was detected in well MW301A. The maximum concentration of nitrate (5.82 mg/L as N) was detected in well MW306A in February 2008, but dropped to 0.75 mg/L in July 2008. Nitrite and orthophosphate were not detected in any of the Glacial Outwash wells. Total phosphorus was detected in one Glacial Outwash well (MW305A1) in October 2008 at 0.12 mg/L.

Metals

The concentrations of metals detected in the Glacial Outwash wells were relatively low (Table 2.3-43) and were similar to concentrations detected in the small creeks (Table 2.3-42 and Table 2.3-50), except for iron and manganese, which were slightly elevated in a few wells.

Iron was detected in more than half of the well samples. The maximum concentration detected was 2.5 mg/L in well MW302A1 in October 2008.

Manganese was detected in all Glacial Outwash wells. The maximum concentration detected was 0.72 mg/L in well MW304A in April 2008.

Biological Parameters

Total coliform bacteria were detected at 4 counts/100mL in MW301A (Table 2.3-43) in July 2008. Fecal coliform bacteria and fecal streptococci were not detected in any sample collected from the Glacial Outwash Aquifer.

Organic Chemicals

The Pennsylvania Drinking Water Standards (DWS) list contains volatile organic compounds (VOCs), synthetic organic chemicals (SOCs), and a short list of radiological parameters Table 2.3-44). The testing for these compounds in groundwater was limited to a single sampling event. Groundwater samples from three Glacial Outwash wells (MW301A, MW304A, MW305A) were collected in February 2008 (winter) and were analyzed for VOCs, SOCs, and the radiological parameters listed in Table 2.3-44. None of the listed VOCs or SOCs were detected in the three groundwater samples analyzed.

Radionuclides

Groundwater data collected from the SSES Glacial Outwash wells indicate that the average tritium level in 1981 and 1982 (pre-operational) was 101 pCi/L (PPL, 2007). The average tritium level between 1982 and 2006 has been 53 pCi/L (PPL, 2007). This tritium is not site related. It

was likely introduced to groundwater in the U.S. from rainfall recharge during the 1950s and 1960s (i.e. bomb tritium and fallout). The background tritium concentrations in groundwater have been decreasing since 1963, the year of peak releases to the atmosphere due to nuclear weapons testing.

No beta-emitting (including tritium) or gamma-emitting radionuclides were detected in the BBNPP Glacial Outwash wells in 2008 during the site-specific sampling program (Table 2.3-43 and Table 2.3-44). Glacial Outwash wells were not sampled in 2010.

2.3.3.2.2 Shallow Bedrock Aquifer

Field parameters measured in the BBNPP Bedrock monitoring wells are tabulated in Table 2.3-48 and Table 2.3-51 for 2008 and 2010, respectively. Laboratory analytical data for samples collected from the Bedrock aquifer wells are summarized in Table 2.3-43 and Table 2.3-52 for 2008 and 2010, respectively.

pH and Alkalinity

The pH values of the Bedrock wells ranged between 6.4 and 11.18 (Table 2.3-48 and Table 2.3-51). Many of these pH values are high and indicate that carbonate mineral dissolution, sulfate reduction, or other geochemical process may be affecting the pH value in the Bedrock aquifer. Only five pH readings in four different wells (MW308B, 7/24/2008; MW404, 7/1/2010; MW 405, 12/15/2010 and 3/22/2011; MW408, 7/1/2010) were less than 7.00 (Table 2.3-48 and Table 2.3-51). Conversely, 37 out of 82 pH readings (45 percent) in the Bedrock aquifer were above 8.00 (Table 2.3-48 and Table 2.3-51), which indicates that the groundwater in this aquifer is alkaline.

The total alkalinity values measured in the six Bedrock wells ranged between 34 and 110 mg/L (Table 2.3-43 and Table 2.3-52), which are much higher than alkalinities detected in the Glacial Outwash wells (Table 2.3-43) and similar to the alkalinity concentrations measured in the NBSR (Table 2.3-42, Table 2.3-45, and Table 2.3-46).

Specific Conductance (SC), Total Dissolved Solids (TDS), and Total Hardness

SC values in the Bedrock wells range from 0.055 to 0.580 mS/cm (Table 2.3-48 and Table 2.3-51). The highest values were measured in wells MW304B, MW304C, MW306C, MW308B, and MW309B. Bedrock wells with the lowest SC values were MW301B1, MW303B, MW310B, MW303C, MW404, MW405, MW406, MW407, and MW408 (Table 2.3-48 and Table 2.3-51).

Dissolved Oxygen

The DO concentrations measured in the Bedrock wells were much lower than concentrations measured in the Glacial Outwash wells. Values in the Bedrock wells ranged from 0.0 to 10.17 mg/L; however, in general, most values were less than 1.0 mg/L (Table 2.3-48 and Table 2.3-51) . The lower concentrations of dissolved oxygen in the bedrock indicate that the groundwater in the bedrock is part of a deeper groundwater flow system, the water has been in the ground much longer than the groundwater in the Glacial Outwash aquifer, and most dissolved oxygen in the Bedrock aquifer has been consumed by reactions with mineral and/or organic matter in the shale.

Inorganic Nitrogen and Phosphorus Compounds (Nutrients)

The highest nitrate concentration (2.0 mg/L) was detected in a sample from MW304B in July 2008. Nitrite was not detected in the Bedrock aquifer (Table 2.3-43 and Table 2.3-52). However, ammonia was detected in every sample collected from the six bedrock wells that were sampled (Table 2.3-43 and Table 2.3-52). The highest ammonia concentration detected was 0.99 mg/L (as N). The presence of ammonia, and the general lack of nitrate in the Bedrock aquifer samples indicates that the aquifer has reducing properties. Orthophosphate and total phosphorus were not detected in the Bedrock aquifer.

Metals

All of the metal concentrations measured in the Bedrock aquifer are low or not detectable. The only metals in the bedrock aquifer which appear to be greater than concentrations in the Glacial Outwash aquifer were calcium, barium, sodium, potassium, and strontium (Table 2.3-43 and Table 2.3-52).

Biological Parameters

Fecal coliform bacteria were not detected in any of the six Bedrock wells sampled (Table 2.3-43 and Table 2.3-52). Total coliform bacteria were detected in three of the wells, with a maximum detection of 22 coliform/100mL Table 2.3-52). Fecal Streptococci ranged from not detected to 2 CFU/100mL (Table 2.3-43 and Table 2.3-52)

Organic Chemicals

The Pennsylvania Drinking Water Standards (DWS) list contains volatile organic compounds (VOCs), synthetic organic chemicals (SOCs), and a short list of radiological parameters that were not included in the seasonal sampling program. The testing for these compounds in groundwater was limited to a single sampling event. A groundwater sample from one Bedrock well (MW304B) was collected in February 2008 (winter) and was analyzed for VOCs, SOCs, and select radionuclide parameters listed in Table 2.3-44. None of the analytes tested were detected in the single groundwater sample from the Bedrock aquifer.

Radionuclides

No gamma-emitting radionuclides were detected in the Bedrock well samples collected in 2008, 2010, or 2011 during the BBNPP site-specific sampling program (Table 2.3-43, Table 2.3-44, and Table 2.3-52).

Tritium was detected at a concentration of 1,020 ± 260 pCi/L (38 ± 9.6 Bq/L) in one sample from a bedrock well (MW305B) collected in February 2008 (winter) (Table 2.3-43). In addition, a gross beta value of 6.5 pCi/L was detected in MW304B in February 2008 (winter). Tritium was not detected in any of the other Bedrock aquifer samples.

2.3.3.3 References

CFR, 2007a. U.S. Environmental Protection Agency, Title 40 Code of Federal Regulations, Part 141, "National Primary Drinking Water Regulations," Revised as of July 1, 2007.

CFR, 2007b. U.S. Environmental Protection Agency, Title 40 Code of Federal Regulations, Part 142, "National Primary Drinking Water Regulations Implementation," Revised as of July 1, 2007.

CFR, 2007c. U.S. Environmental Protection Agency, Title 40 Code of Federal Regulations, Part 143, "National Secondary Drinking Water Regulations," Revised as of July 1, 2007.

Ecology III, 2003-2007. Environmental Studies in the Vicinity of the Susquehanna Steam Electric Station, Water Quality and Fishes. Prepared for PPL Susquehanna, LLC.

NRC, 1981. Final Enviromental Statement Related to the Operation of Susquehanna Steam Electric Station, Unit 1 and 2, Docket Nos. 50-388, Pennsylvania Power and Light Company and Allegheny Electric Cooperative Inc. U.S. Nuclear Regulatory Commision Office of Nuclear Reactor Regulation, June 1981.

NRC, 1999. Nuclear Regulatory Commission, NUREG-1555, "Standard Review Plans for Environmental Reviews for Nuclear Power Stations", October 1999.

PADEP, 2005. Pennsylvania Department of Environmental Protection, Water Quality Toxics Management Strategy-Statement of Policy, Title 25, Pennsylvania Code, Subchapter A, "Guidelines for Development of Criteria for Toxic Substances and Water Quality Criteria for Toxic Substances," Chapter 16, May 2005.

PADEP, 2006a. Pennsylvania Department of Environmental Protection Specific Water Quality Criteria for the Susquehanna River in the vicinity of the Susquehanna Steam Electric Station, 2006, (Included as Table 3 of Ecology III, 2007).

PADEP, 2006b. Pennsylvania Department of Environmental Protection, Division of Drinking Water Management, Maximum Contaminant Levels (MCLs) & Maximum Residual Disinfectant Levels (MRDLs), Title 25, Pennsylvania Code, Section 109.202, April 2006.

PADEP, 2007. Pennsylvania Department of Environmental Protection, Water Quality Standards, Title 25, Pennsylvania Code, Chapter 93, March 2007.

PADEP, 2008a. Pennsylvania Department of Environmental Protection, Permit List for Susquehanna Steam Electric Station - 250359, Accessed via eFACTS, Website: http://www.dep.state.pa.us/efacts/searchresults.asp?varSiteID=250359&varSearchType=perm&varSearchSubType=site, Access date: June 25, 2008.

PADEP, 2008b. Pennsylvania Department of Environmental Protection, Pennsylvania's Major River Basins, Pennsylvania's Mighty Susquehanna, Website: http://www.dep.state.pa.us/river/basininfo.htm#sus, Access date: June 27, 2008.

PPL, 2003-2007. Radiological Environmental Monitoring Report (REMP), within Annual Radiological Environmental Operating Report (REOR), Susquehanna Steam Electric Station Units 1 & 2, PPL Susquehanna, LLC, Berwick, PA, for years 2002 through 2007.

SRBC, 2006. Susquehanna River Basin Commission, Information Sheet, November 2006. Website: http://www.srbc.net/pubinfo/docs/Susq%20River%20Basin%20General%20(11_06).pdf, Date accessed: June 27, 2008.

USEPA, 2002. United States Environmental Protection Agency, EPA 815-R-02-001, Radionuclides in Drinking Water: A Small Entity Compliance Guide, February 2002.

USEPA, 2003. United States Environmental Protection Agency. EPA 816-F-03-016, National Primary Drinking Water Standards Alphabetical List, June 2003, Website: http://www.epa.gov/safewater/consumer/pdf/mcl.pdf, Accessed: July 11, 2008.

USEPA, 2004a. United States Environmental Protection Agency, Safe Drinking Water Act (SWDA) Basic Information, Website: http://www.epa.gov/safewater/sdwa/basicinformation.html, Accessed: July 10, 2008.

USEPA, 2004b. United States Environmental Protection Agency, Safe Drinking Water Act (SWDA) Basic Information, Website: http://www.epa.gov/safewater/sdwa/30th/factsheets/standard.html, Accessed: July 10, 2008.

USEPA, 2006. United States Environmental Protection Agency, EPA 822-R-06-013, 2006 Edition of the Drinking Water Standards and Health Advisories, August 2006.

USEPA, 2008a. United States Environmental Protection Agency, Drinking Water Contaminants, Website: http://www.epa.gov/safewater/contaminants/index.html, Access date: June 17, 2008.

USEPA, 2008b. United States Environmental Protection Agency, National Secondary Drinking Water Regulations, Website: http://www.epa.gov/safewater/contaminants/index.html#sec, Access date: May 28, 2008.

USEPA, 2008c. United States Environmental Protection Agency, Drinking Water Contaminants, Website: http://www.epa.gov/SAFEWATER/hfacts.html, Access date: June 16, 2008.

Table 2.3-1— Sub-basin Flow Path Length and Slope

Sub-basin	Length of longest flow path (ft)	Slope (ft/mi)
SB1-1	**2791.16**	**189.71**
SB1-2	8365.51	206.19
SB1-3	8691.82	138.80
SB2-1	8949.22	107.26
SB2-2	6626.43	330.33
SB2-3	5689.13	429.71
SB2-4	4744.73	98.13
SB3-1	6685.73	326.30
SB3-2	4170.91	33.19
SB3-3	2862.04	58.10
SB3-4	2779.25	112.14

Table 2.3-2— Annual Peak Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1787 through 2006)

(Page 1 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1787	Oct. 05, 1786	N.A.	189,000
1807	Apr. 1807	N.A.	202,000
1809	Jul. 1809	N.A.	95,200
1833	May 14, 1833	N.A.	176,000
1865	Mar. 18, 1865	33.10	232,000
1891	Jan. 24, 1891	26.80	164,000
1892	Apr. 04, 1892	21.60	112,000
1893	May 05, 1893	22.02	115,000
1894	May 21, 1894	20.00	97,100
1895	Apr. 10, 1895	21.82	113,000
1896	Apr. 01, 1896	24.00	135,000
1897	Oct. 15, 1896	19.00	88,600
1898	Apr. 26, 1898	17.82	78,900
1899	Mar. 06, 1899	18.22	82,100
1900	Mar. 02, 1900	19.70	94,500
1901	Nov. 28, 1900	22.00	115,000
1902	Mar. 02, 1902	31.40	213,000
1903	Mar. 25, 1903	22.40	119,000
1904	Mar. 09, 1904	30.60	204,000
1905	Mar. 26, 1905	23.40	129,000
1906	Apr. 01, 1906	18.10	81,300
1907	Mar. 16, 1907	16.00	65,500
1908	Feb. 17, 1908	23.50	130,000
1909	May 02, 1909	23.00	125,000
1910	Mar. 03, 1910	26.10	157,000
1911	Mar. 29, 1911	19.70	94,500
1912	Apr. 03, 1912	23.20	127,000
1913	Mar. 28, 1913	28.50	184,000
1914	Mar. 29, 1914	28.30	182,000
1915	Feb. 26, 1915	23.30	127,000
1916	Apr. 02, 1916	26.50	160,000
1917	Mar. 28, 1917	17.70	75,700
1918	Mar. 15, 1918	23.00	124,000
1919	May 24, 1919	16.60	66,900
1920	Mar. 13, 1920	26.00	155,000
1921	Mar. 10, 1921	19.00	86,600
1922	Nov. 29, 1921	22.30	117,000
1923	Mar. 05, 1923	19.60	91,800
1924	Apr. 08, 1924	23.50	129,000
1925	Feb. 13, 1925	25.10	145,000
1926	Mar. 26, 1926	19.40	90,100
1927	Nov. 17, 1926	22.70	121,000
1928	Oct. 20, 1927	24.70	141,000
1929	Apr. 22, 1929	26.40	159,000
1930	Mar. 09, 1930	16.70	67,600
1931	Mar. 30, 1931	17.60	74,700

Table 2.3-2— Annual Peak Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1787 through 2006)

(Page 2 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1932	Apr. 02, 1932	20.50	107,000
1933	Aug. 25, 1933	19.72	99,800
1934	Mar. 06, 1934	18.00	85,500
1935	Jul. 10, 1935	25.39	151,000
1936	Mar. 20, 1936	33.07	232,000
1937	Jan. 23, 1937	17.15	77,300
1938	Sep. 24, 1938	14.70	64,900
1939	Feb. 22, 1939	23.80	137,000
1940	Apr. 01, 1940	31.53	212,000
1941	Apr. 07, 1941	23.50	138,000
1942	Mar. 11, 1942	20.62	111,000
1943	Jan. 01, 1943	29.37	191,000
1944	May 09, 1944	18.50	90,000
1945	Mar. 05, 1945	21.80	119,000
1946	May 29, 1946	32.01	210,000
1947	Apr. 07, 1947	24.88	151,000
1948	Mar. 23, 1948	28.76	193,000
1949	Dec. 31, 1948	17.39	82,700
1950	Mar. 30, 1950	27.04	172,000
1951	Apr. 01, 1951	22.72	128,000
1952	Mar. 13, 1952	22.39	124,000
1953	Dec. 12, 1952	19.43	98,000
1954	May 5, 1954	16.85	78,900
1955	Mar. 03, 1955	17.80	85,900
1956	Mar. 09, 1956	28.17	186,000
1957	Apr. 07, 1957	20.48	107,000
1958	Apr. 08, 1958	26.80	170,000
1959	Jan. 23, 1959	21.14	113,000
1960	Apr. 02, 1960	29.60	184,000
1961	Feb. 27, 1961	26.20	163,000
1962	Apr. 02, 1962	22.84	128,000
1963	Mar. 28, 1963	22.26	131,000
1964	Mar. 10, 1964	N.A.	188,000
1965	Feb. 14, 1965	11.10	44,600
1966	Feb. 15, 1966	18.25	93,500
1967	Mar. 29, 1967	17.16	84,800
1968	Mar. 24, 1968	19.19	101,000
1969	Apr. 07, 1969	16.57	80,500
1970	Apr. 04, 1970	20.92	115,000
1971	Mar. 17, 1971	20.28	110,000
1972	Jun. 24, 1972	40.91	345,000
1973	Apr. 06, 1973	18.04	91,800
1974	Dec. 28, 1973	18.24	93,400
1975	Sep. 27, 1975	35.06	228,000
1976	Feb. 19, 1976	21.34	118,000
1977	Sep. 26, 1977	21.62	121,000

Table 2.3-2— Annual Peak Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1787 through 2006)

(Page 3 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1978	Jan. 27, 1978	21.08	116,000
1979	Mar. 07, 1979	31.02	192,000
1980	Mar. 23, 1980	19.50	104,000
1981	Feb. 22, 1981	19.57	104,000
1982	Oct. 29, 1981	17.24	86,400
1983	Apr. 16, 1983	23.86	138,000
1984	Dec. 14, 1983	29.76	192,000
1985	Mar. 14, 1985	13.04	55,800
1986	Mar. 16, 1986	27.36	172,000
1987	Apr. 05, 1987	19.22	98,500
1988	May 21, 1988	16.88	82,200
1989	May 12, 1989	21.12	117,000
1990	Feb. 18, 1990	15.75	74,900
1991	Oct. 25, 1990	22.69	134,000
1992	Mar. 28, 1992	18.46	92,000
1993	Apr. 02, 1993	29.87	185,000
1994	Mar. 26, 1994	24.16	148,000
1995	Jan. 22, 1995	15.76	72,100
1996	Jan. 20, 1996	34.45	221,000
1997	Nov. 10, 1996	23.57	128,000
1998	Jan. 09, 1998	24.79	138,000
1999	Jan. 25, 1999	21.59	112,000
2000	Feb. 29, 2000	23.66	129,000
2001	Apr. 11, 2001	19.49	96,800
2002	Mar. 28, 2002	17.02	78,900
2003	Mar. 22, 2003	22.84	122,000
2004	Sep. 19, 2004	34.96	227,000
2005	Apr. 04, 2005	30.88	189,000
2006	Jun. 28, 2006	34.14	218,000

Note: N.A. = Not Available
Source: USGS, 2008b

Table 2.3-3— Monthly Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second													
Year	Monthly Mean in cfs (Calculation Period: 1/04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1899				28,770	8,567	3,378	1,965	1,653	1,140	1,072	7,045	12,680	
1900	18,270	28,220	23,770	26,340	6,583	3,506	2,320	1,635	1,239	1,120	10,850	14,070	11,494
1901	5,532	3,893	32,830	39,250	21,450	15,670	3,065	7,403	4,257	3,570	5,288	25,910	14,010
1902	11,530	7,264	65,710	21,860	4,847	4,968	29,010	10,070	4,917	14,970	8,394	22,930	17,206
1903	13,320	34,970	53,490	23,650	3,388	10,260	7,877	13,070	10,930	27,370	12,570	7,036	18,161
1904	14,090	15,720	52,520	31,290	15,750	11,170	3,636	5,192	4,119	11,250	5,972	7,658	14,864
1905	19,680	5,289	41,070	24,550	5,873	10,750	5,488	5,466	12,650	8,081	5,527	20,020	13,704
1906	15,400	10,690	18,650	37,390	12,100	13,920	6,493	3,662	1,869	5,128	10,070	11,070	12,204
1907	29,450	5,347	24,070	17,920	13,720	4,808	4,367	1,485	5,139	11,100	18,550	30,440	13,866
1908	14,070	21,570	45,190	25,010	25,840	4,471	2,718	1,480	869.3	1,059	1,476	1,357	12,093
1909	14,490	33,760	21,360	27,200	28,210	10,610	2,076	1,451	1,124	1,188	1,206	2,143	12,068
1910	12,730	6,407	51,580	17,050	15,620	10,970	1,946	996.1	1,030	1,117	3,074	2,611	10,428
1911	20,760	7,584	21,620	30,540	5,980	7,086	1,764	1,278	3,637	9,217	8,976	14,310	11,063
1912	6,796	8,097	32,870	46,810	16,450	3,641	1,249	1,817	12,860	9,300	13,080	15,590	14,047
1913	36,070	7,294	40,100	19,960	9,271	4,425	1,359	920.6	1,008	2,992	10,670	5,988	11,671
1914	7,662	14,860	29,750	53,770	26,430	4,183	4,774	5,100	3,800	1,448	1,689	2,130	12,966
1915	25,850	35,260	12,120	13,440	8,379	2,479	26,580	18,630	6,652	10,290	6,982	11,990	14,888
1916	25,390	11,490	18,370	59,300	16,650	22,970	5,886	1,758	2,360	4,871	5,166	6,873	15,090
1917	8,178	4,319	26,620	19,990	13,000	27,230	16,900	14,020	5,403	15,240	13,850	2,499	13,937
1918	1,450	18,650	41,430	27,980	16,850	9,701	3,672	1,480	5,144	9,190	14,180	11,490	13,435
1919	12,130	6,480	20,760	20,690	26,190	4,701	4,576	3,694	1,980	2,577	15,160	9,185	10,677
1920	2,839	2,710	48,990	23,090	9,845	3,896	7,191	7,686	7,497	10,080	13,200	24,170	13,433
1921	8,949	9,669	35,460	16,860	10,450	2,428	3,142	2,557	1,848	2,879	19,960	17,860	11,005
1922	6,303	15,530	32,910	32,310	9,612	24,760	11,890	5,544	4,555	2,056	2,069	2,458	12,500
1923	9,361	6,578	35,250	19,070	15,250	4,580	1,612	1,440	1,887	3,361	4,175	15,860	9,869
1924	19,480	5,369	14,990	40,400	23,830	6,096	3,983	2,554	3,865	16,760	3,658	5,501	12,207
1925	2,912	34,590	22,310	16,390	11,350	3,668	6,191	4,574	5,241	6,519	19,490	16,100	12,445
1926	10,370	14,760	28,820	35,280	8,108	4,088	2,052	5,947	5,990	14,490	30,970	9,160	14,170
1927	11,480	20,860	44,130	16,630	26,190	7,843	2,845	3,210	4,003	24,560	32,130	35,260	19,095
1928	15,090	17,640	21,790	32,330	23,720	23,050	17,160	7,714	2,520	2,090	3,554	7,607	14,522

Table 2.3-3— Monthly Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second													
Year	Monthly Mean in cfs (Calculation Period: 1/04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1929	5,094	5,985	39,710	52,190	29,710	5,257	2,737	1,527	1,284	6,861	9,856	13,970	14,515
1930	21,510	12,780	29,640	18,360	9,824	9,205	3,542	1,105	1,968	1,105	1,089	1,933	9,338
1931	1,386	3,516	20,320	30,170	22,500	7,557	7,231	2,679	1,838	1,248	2,454	10,080	9,248
1932	21,670	20,910	13,790	41,680	16,620	3,803	4,292	2,240	1,116	11,290	23,390	6,096	13,908
1933	8,742	6,148	25,060	33,520	11,260	4,794	2,536	12,160	14,390	6,120	8,315	11,810	12,071
1934	17,540	3,882	20,790	32,410	6,496	4,413	2,050	1,657	7,036	4,734	9,027	13,840	10,323
1935	20,740	7,950	30,980	28,470	17,920	4,142	20,330	4,837	2,348	2,193	22,530	13,280	14,643
1936	8,910	5,233	80,560	26,230	8,509	3,261	1,479	2,132	1,602	3,417	12,630	11,800	13,814
1937	29,760	13,690	12,980	35,000	15,600	8,682	4,684	6,650	5,355	11,910	14,750	13,580	14,387
1938	11,100	21,240	23,240	17,790	7,799	4,326	3,667	4,648	12,470	4,771	7,107	23,010	11,764
1939	8,180	31,060	32,500	27,160	6,113	2,453	1,284	1,225	769.9	1,930	4,473	6,160	10,276
1940	3,523	3,800	16,890	85,900	15,430	8,798	5,736	2,103	4,709	3,159	9,089	15,950	14,591
1941	12,400	6,389	14,030	39,500	5,216	3,904	2,046	2,545	1,059	904.9	2,405	6,802	8,100
1942	6,200	6,554	36,930	20,310	15,050	9,016	4,167	5,583	5,040	12,310	18,120	21,510	13,399
1943	28,000	20,890	36,320	27,250	39,590	12,190	2,910	2,737	1,737	6,640	18,140	5,562	16,831
1944	3,124	6,258	26,340	28,050	20,310	9,326	3,343	1,544	1,882	3,481	5,022	10,100	9,898
1945	10,600	14,070	58,930	17,050	28,990	14,220	8,212	5,731	10,010	17,940	25,280	16,360	18,949
1946	17,750	6,591	33,520	6,918	31,800	21,870	7,571	6,876	3,019	8,004	5,342	4,075	12,778
1947	17,480	11,910	22,990	41,480	36,940	18,130	14,020	7,032	4,295	1,775	6,875	5,935	15,739
1948	3,503	13,100	50,290	32,680	22,200	9,963	5,886	4,287	1,514	1,605	7,474	10,340	13,570
1949	29,220	18,450	15,920	18,500	12,650	3,814	1,671	1,917	3,279	3,651	6,137	13,910	10,760
1950	20,880	11,830	33,230	41,180	14,060	10,620	4,331	4,639	11,120	6,144	18,670	29,980	17,224
1951	22,970	29,250	27,810	32,020	7,077	5,389	7,967	3,039	1,959	1,806	9,802	16,750	13,820
1952	29,560	16,460	32,470	30,100	19,900	6,702	5,783	2,753	2,868	1,681	5,252	20,200	14,477
1953	20,620	18,820	26,870	23,900	21,570	6,924	2,239	1,348	1,143	1,218	3,272	10,020	11,495
1954	7,011	22,010	20,700	23,300	22,120	8,750	2,105	1,133	2,173	1,408	10,730	17,090	11,544
1955	14,140	12,090	42,870	16,500	6,530	3,773	1,409	6,229	2,270	27,750	25,580	9,335	14,040
1956	7,138	14,700	44,380	55,210	17,570	7,812	5,722	2,580	6,346	5,035	7,171	21,930	16,300
1957	13,970	10,900	21,490	36,210	14,820	4,756	3,196	2,186	1,642	1,933	3,910	16,130	10,929
1958	10,880	6,400	27,030	72,870	25,600	11,420	6,419	3,028	4,221	6,490	12,520	8,166	16,254

Table 2.3-3— Monthly Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second													
Year	Monthly Mean in cfs (Calculation Period: 1/04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1959	16,900	14,240	23,870	33,830	9,965	3,041	1,663	1,330	1,735	8,333	24,820	32,810	14,378
1960	18,110	22,090	13,210	57,530	22,600	22,280	5,162	3,425	9,404	3,774	4,878	2,862	15,444
1961	2,044	24,330	32,710	45,110	21,320	11,850	4,647	4,654	2,593	1,449	3,120	5,132	13,247
1962	12,800	5,855	26,660	42,730	9,660	2,519	1,086	1,118	861.7	7,335	11,230	7,981	10,820
1963	6,415	4,752	36,900	24,560	13,120	5,776	2,493	1,674	1,054	816.5	2,444	8,188	9,016
1964	16,260	8,928	55,860	24,200	13,350	2,784	1,452	853.2	636.7	704.7	723.6	2,451	10,684
1965	4,704	15,470	10,250	23,010	10,170	3,688	1,187	1,282	1,634	3,753	6,439	8,566	7,513
1966	7,521	18,240	36,870	16,560	19,580	7,569	1,862	1,260	1,346	1,656	3,552	10,110	10,511
1967	9,553	11,000	24,860	27,530	22,980	6,503	5,145	7,098	3,912	8,988	22,100	18,660	14,027
1968	6,505	13,740	27,100	13,710	18,800	20,470	7,344	2,190	5,413	2,884	22,460	16,070	13,057
1969	10,250	11,090	13,810	29,700	12,250	9,353	4,792	4,988	1,625	1,347	13,830	14,380	10,618
1970	5,874	22,800	17,510	51,580	13,790	4,132	4,021	1,994	2,241	5,925	14,730	11,060	12,971
1971	7,767	19,740	38,400	34,460	18,690	3,699	1,879	3,253	2,307	2,040	3,005	20,400	12,970
1972	16,220	6,116	43,240	38,690	29,620	54,330	14,570	3,648	1,849	2,357	29,280	36,630	23,046
1973	19,470	17,140	26,240	30,490	20,920	10,810	7,681	3,399	3,314	2,356	4,818	32,540	14,932
1974	22,850	18,390	23,190	36,500	14,200	5,423	6,097	2,467	5,865	4,053	11,950	20,440	14,285
1975	20,840	29,320	25,430	18,730	19,580	11,460	3,920	2,762	28,680	25,020	14,030	15,520	17,941
1976	16,160	43,030	30,810	18,630	17,690	12,950	9,978	9,028	4,863	29,510	13,020	9,375	17,920
1977	4,565	9,047	50,960	30,020	13,040	3,763	3,330	3,991	24,940	39,860	27,930	33,670	20,426
1978	33,900	12,740	39,440	39,740	17,690	7,113	2,779	5,043	2,789	4,496	4,799	9,565	15,008
1979	34,360	12,090	53,400	24,870	14,660	6,938	2,444	1,979	3,667	8,481	15,970	14,510	16,114
1980	7,779	3,326	31,090	37,530	11,500	3,701	4,497	1,975	1,152	1,762	4,645	7,363	9,693
1981	2,290	40,790	12,550	11,970	15,020	8,667	3,694	2,535	3,769	14,000	16,970	11,510	11,980
1982	10,240	16,870	32,180	30,600	7,935	20,780	7,588	2,458	1,339	1,267	3,487	8,053	11,900
1983	6,995	18,160	19,070	51,430	31,020	8,614	3,637	1,877	1,171	1,338	5,446	34,770	15,294
1984	5,548	36,800	15,660	50,110	31,200	14,800	10,800	7,481	3,254	1,995	4,493	19,310	16,788
1985	9,432	8,889	21,270	14,260	5,520	3,692	2,828	1,806	4,752	6,413	17,260	17,210	9,444
1986	12,160	18,620	42,820	21,230	10,770	11,930	6,083	8,627	2,581	6,454	21,960	20,430	15,305
1987	8,313	4,682	24,780	35,420	6,451	4,690	5,725	2,001	8,459	5,971	8,365	14,200	10,755
1988	6,334	16,060	19,730	13,220	19,150	4,155	2,357	1,985	3,293	2,888	12,090	5,955	8,935

Table 2.3-3— Monthly Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second													
Year	Monthly Mean in cfs (Calculation Period: 1/04/1899 to 9/30/2006)												Average Yearly Discharge
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1989	5,107	7,206	13,360	25,890	38,140	24,420	6,988	2,695	3,167	8,989	14,190	5,239	12,949
1990	14,550	37,320	17,650	22,600	21,320	6,815	5,823	3,874	2,957	24,180	22,160	28,540	17,316
1991	20,800	19,540	27,590	21,420	10,990	2,712	1,311	1,346	1,209	1,919	5,246	11,190	10,439
1992	12,460	8,367	24,330	26,780	14,270	10,660	6,203	10,040	7,683	9,541	22,580	15,820	14,061
1993	23,150	5,857	22,170	100,000	12,800	4,445	2,039	1,589	2,166	3,162	16,940	19,600	17,827
1994	6,917	17,430	43,670	61,030	11,450	11,680	9,344	19,560	7,105	5,358	10,760	18,080	18,532
1995	19,380	8,199	20,670	14,180	6,508	4,091	1,841	1,352	1,079	9,809	15,750	10,600	9,455
1996	40,740	19,470	21,020	32,350	36,730	8,321	8,785	4,846	4,778	13,040	29,540	44,610	22,019
1997	12,780	14,640	28,580	20,490	14,800	7,063	2,680	1,809	1,813	1,912	7,600	10,970	10,428
1998	36,890	21,510	41,770	32,420	20,380	13,140	13,990	2,388	1,781	2,354	2,078	2,997	15,975
1999	19,670	18,000	23,070	22,980	6,720	2,137	1,850	977.2	5,629	5,660	6,522	12,500	10,476
2000	14,040	21,930	35,820	42,570	32,330	18,920	6,466	5,308	3,217	5,470	5,309	14,310	17,141
2001	6,057	14,130	20,660	42,310	5,076	9,479	3,451	1,497	3,100	2,123	2,043	9,778	9,975
2002	5,599	20,470	18,500	20,520	31,090	23,330	4,078	1,387	2,146	10,330	15,860	17,870	14,265
2003	16,060	9,674	43,550	31,090	13,520	28,280	10,210	11,860	15,980	17,550	26,180	34,030	21,499
2004	16,350	6,844	33,800	26,890	22,110	9,290	13,870	18,180	37,600	10,400	13,250	30,870	19,955
2005	30,770	18,550	24,500	47,890	7,532	4,134	3,076	1,317	2,284	17,970	20,430	22,730	16,765
2006	35,210	21,190	13,930	13,280	9,054	31,720	23,620	8,361	12,880				
Mean of Monthly Discharge	14,300	14,900	30,100	31,200	16,400	9,490	5,640	4,150	4,700	7,110	11,300	14,400	13,641

Table 2.3-4— Mean Daily Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

Discharge, cubic feet per second												
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	15,700	13,300	23,200	40,600	20,400	11,500	8,600	4,510	4,240	6,340	8,680	15,000
2	15,200	12,800	23,600	40,300	19,900	11,300	8,440	4,540	4,330	6,170	8,270	15,300
3	15,200	13,300	22,900	40,800	18,800	11,200	7,740	4,500	4,680	5,780	8,730	15,200
4	15,000	14,000	22,600	40,100	18,100	11,300	7,130	4,360	4,840	5,430	8,910	14,900
5	14,800	13,200	23,700	39,800	17,600	10,700	6,460	4,470	4,430	5,040	8,850	15,000
6	14,700	12,100	24,700	41,200	17,100	10,300	6,080	4,260	4,070	4,900	9,000	14,800
7	15,000	11,300	26,300	41,500	16,900	10,900	6,100	4,360	3,770	5,450	8,720	14,600
8	15,400	10,900	25,700	39,600	17,400	10,400	5,910	4,080	3,390	5,250	8,970	14,700
9	15,500	10,800	26,000	37,700	17,300	9,740	6,970	4,000	3,190	5,480	10,900	14,800
10	15,000	10,300	25,800	35,700	17,200	9,150	7,850	4,210	3,440	6,590	11,700	14,300
11	13,600	11,700	24,600	35,100	18,000	8,590	6,740	4,100	3,390	6,690	11,500	15,100
12	12,800	13,300	26,100	33,000	18,600	8,370	5,690	3,960	3,480	6,180	11,000	15,700
13	12,500	12,900	27,400	31,800	19,300	8,380	5,310	3,970	3,830	5,860	10,300	15,200
14	12,400	12,900	27,800	31,200	19,200	8,480	5,260	3,850	3,880	5,620	10,700	15,800
15	12,500	13,800	29,300	31,200	17,900	9,040	5,000	4,050	3,710	5,820	11,100	17,100
16	12,100	15,500	30,800	31,400	16,500	9,220	4,780	4,080	3,890	6,390	10,700	16,900
17	11,800	15,400	31,500	31,100	15,600	9,140	4,530	3,740	4,120	6,720	12,000	15,400
18	11,200	15,100	32,300	29,300	15,100	9,340	4,290	3,930	5,230	7,030	12,600	14,100
19	11,900	14,700	32,000	27,000	14,700	8,910	4,240	4,810	5,900	7,460	12,800	13,700
20	13,400	14,700	30,300	25,300	14,800	8,120	4,180	4,040	5,310	8,660	12,800	13,000
21	13,800	16,700	30,200	25,200	15,400	8,160	4,330	3,730	4,830	9,230	12,700	12,800
22	14,900	17,500	31,400	25,700	15,800	8,910	4,740	3,890	4,770	8,890	12,200	12,900
23	15,800	18,000	33,100	25,300	15,600	10,700	5,080	4,080	4,830	8,380	12,000	12,700
24	15,900	18,800	33,100	24,000	14,800	11,000	5,270	4,270	4,780	8,490	11,600	12,800
25	16,300	20,300	33,500	24,000	14,800	10,100	5,420	4,630	5,310	8,750	11,600	13,600
26	17,100	21,500	34,300	24,200	14,600	8,310	5,140	4,230	6,550	8,740	12,300	13,400
27	16,800	20,700	36,900	22,500	13,900	7,510	4,610	3,680	7,710	8,770	13,600	13,100
28	15,900	20,400	40,300	21,000	13,600	8,490	4,790	3,900	7,180	8,640	14,600	12,600
29	14,700	17,500	42,400	20,400	14,300	8,730	4,880	3,770	5,910	9,240	15,500	12,500
30	13,700		41,300	20,000	14,100	8,550	4,620	4,330	5,870	9,390	15,400	13,300
31	13,600		40,500		12,400		4,540	4,330		8,910		15,000

Table 2.3-5— Maximum Daily Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

Discharge, cubic feet per second												
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	180,000	68,900	193,000	206,000	97,200	64,100	120,000	47,100	47,600	111,000	66,900	99,100
2	111,000	59,500	206,000	199,000	118,000	76,800	94,000	36,500	38,400	107,000	50,900	70,700
3	103,000	50,500	198,000	181,000	103,000	72,600	59,100	34,500	39,700	70,000	39,000	124,000
4	90,900	77,900	149,000	187,000	77,800	64,200	39,500	27,200	50,200	41,500	60,300	99,000
5	61,900	84,500	112,000	157,000	74,700	54,600	34,500	49,200	44,900	35,100	47,900	113,000
6	54,800	66,100	166,000	170,000	54,700	38,400	28,300	46,300	33,300	29,400	52,500	95,000
7	77,300	48,100	202,000	178,000	59,600	67,400	42,300	55,300	35,000	45,800	42,500	63,600
8	73,600	36,600	150,000	167,000	78,100	65,900	49,900	36,000	27,700	50,300	53,800	83,900
9	123,000	51,600	179,000	141,000	81,200	50,000	99,700	28,600	17,600	40,300	68,400	78,100
10	126,000	38,800	139,000	137,000	66,300	39,000	142,000	51,500	51,600	89,400	123,000	65,200
11	103,000	62,400	187,000	167,000	84,200	35,900	115,000	32,300	56,500	107,000	92,600	71,100
12	85,700	130,000	129,000	174,000	111,000	38,400	56,200	32,800	36,400	106,000	80,500	89,600
13	70,300	138,000	182,000	132,000	120,000	36,900	37,400	25,900	28,700	79,200	61,200	81,100
14	93,200	95,400	150,000	97,500	101,000	36,400	35,300	27,200	33,600	47,100	58,600	157,000
15	132,000	108,000	131,000	89,900	76,300	44,600	35,500	27,400	26,500	44,500	68,700	184,000
16	92,500	179,000	169,000	115,000	64,000	61,600	26,900	31,000	26,600	151,000	61,900	166,000
17	66,900	133,000	136,000	125,000	67,800	55,900	21,400	22,500	43,300	144,000	95,400	122,000
18	48,500	102,000	192,000	123,000	56,200	59,600	22,200	32,700	122,000	109,000	112,000	59,500
19	97,300	115,000	229,000	93,000	57,500	52,000	23,400	95,300	204,000	99,800	84,900	58,300
20	210,000	110,000	221,000	69,600	56,400	35,300	16,500	64,600	125,000	130,000	70,800	50,400
21	193,000	113,000	184,000	98,100	77,200	41,700	39,400	46,800	67,000	120,000	70,500	45,000
22	128,000	129,000	144,000	148,000	68,500	81,200	57,800	38,900	57,900	70,700	61,400	73,700
23	99,400	84,700	180,000	141,000	68,500	272,000	48,100	38,200	57,000	63,500	47,100	75,100
24	82,300	88,400	162,000	94,500	77,800	329,000	45,900	59,500	64,100	69,900	39,900	65,000
25	110,000	144,000	134,000	100,000	70,000	275,000	48,300	90,400	58,200	126,000	42,000	86,100
26	92,300	154,000	139,000	136,000	100,000	128,000	54,700	65,800	126,000	80,400	81,700	69,300
27	101,000	158,000	155,000	115,000	80,000	73,500	37,400	38,000	244,000	79,700	110,000	54,900
28	103,000	123,000	178,000	91,800	149,000	184,000	63,500	37,600	201,000	58,600	102,000	88,300
29	73,100	127,000	179,000	66,100	206,000	179,000	72,100	30,600	80,300	73,700	107,000	79,200
30	54,500		168,000	64,600	138,000	151,000	60,500	90,000	50,000	69,600	96,300	75,200
31	66,100		173,000		87,900		42,300	68,700		78,200		176,000

Table 2.3-6— Minimum Daily Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

Discharge, cubic feet per second												
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	1,090	1,300	2,100	8,050	6,230	2,000	1,330	787	725	681	699	992
2	1,090	1,300	2,200	8,390	5,910	2,000	1,320	836	746	674	664	984
3	1,160	1,280	2,300	7,590	5,340	2,000	1,280	808	706	658	642	992
4	1,110	1,280	2,200	7,140	5,070	1,810	1,280	774	708	729	632	1,140
5	1,060	1,220	2,200	6,750	4,800	1,810	1,280	780	712	722	627	1,190
6	1,060	1,160	2,100	6,470	4,540	1,810	1,210	768	704	722	642	1,220
7	1,160	1,160	2,100	6,780	4,280	1,810	1,150	732	675	720	637	1,240
8	1,160	1,160	2,600	7,660	4,280	1,810	1,110	808	670	720	627	1,230
9	1,060	1,110	2,820	7,600	4,280	2,000	1,090	720	675	699	637	1,090
10	1,060	1,060	2,820	7,380	3,780	2,000	1,070	722	670	693	653	860
11	1,010	1,060	2,600	7,100	3,540	1,810	995	716	637	687	653	1,090
12	1,160	1,110	2,390	6,930	3,540	1,970	983	799	627	675	653	1,060
13	1,390	1,340	2,390	6,280	3,300	1,840	990	842	597	675	653	1,060
14	1,340	1,800	3,270	6,280	3,070	1,840	969	822	588	670	637	1,060
15	1,300	1,530	3,400	6,540	3,070	1,840	924	815	588	664	627	1,060
16	1,290	1,530	3,300	6,540	3,070	1,720	909	801	583	670	632	1,060
17	1,300	1,950	3,300	5,660	2,840	1,790	872	780	578	681	653	1,060
18	1,320	2,100	3,600	5,660	2,840	1,960	1,040	774	569	681	653	1,060
19	1,410	2,200	4,200	7,100	2,620	1,880	1,020	810	552	693	653	1,090
20	1,660	2,100	5,340	6,540	2,620	1,810	986	787	548	716	710	1,220
21	1,530	2,470	4,800	6,000	2,620	1,700	920	794	544	722	681	1,340
22	1,300	2,290	4,800	5,730	2,660	1,670	920	822	544	700	681	1,400
23	1,210	2,200	4,280	5,690	2,620	1,570	928	836	552	700	681	1,090
24	1,220	2,000	4,280	5,470	2,620	1,480	986	836	569	720	704	970
25	1,230	2,000	4,540	5,210	2,200	1,440	942	818	548	722	761	1,490
26	1,310	2,000	4,800	5,210	2,200	1,400	920	785	536	722	913	1,490
27	1,410	2,000	5,070	5,210	2,200	1,350	944	795	532	710	992	1,490
28	1,530	2,000	6,440	5,470	2,200	1,350	878	805	578	704	1,100	1,220
29	1,470	2,200	7,070	5,470	2,000	1,470	843	785	699	704	1,080	1,360
30	1,400		7,450	6,000	2,000	1,400	815	735	684	710	1,040	1,090
31	1,360		7,660		2,000		787	725		710		1,090

Table 2.3-7— Annual Peak Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

(Page 1 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1865	Mar. 18, 1865	28.00	N.A.
1900	Mar. 02, 1900	15.90	105,000
1901	Nov. 28, 1900	18.50	135,000
1902	Mar. 03, 1902	26.90	243,000
1903	Mar. 25, 1903	18.20	132,000
1904	Mar. 27, 1904	19.62	148,000
1905	Mar. 26, 1905	18.62	136,000
1906	Apr. 01, 1906	15.40	99,500
1907	Mar. 17, 1907	13.00	73,400
1908	Feb. 17, 1908	17.40	122,000
1909	May 2, 1909	18.40	134,000
1910	Mar. 03, 1910	21.00	165,000
1911	Mar. 29, 1911	15.20	97,300
1912	Apr. 03, 1912	17.91	129,000
1913	Mar. 28, 1913	23.11	192,000
1914	Mar. 29, 1914	22.60	186,000
1915	Feb. 26, 1915	19.00	141,000
1916	Apr. 02, 1916	21.80	175,000
1917	Mar. 29, 1917	14.80	92,900
1918	Mar. 16, 1918	18.60	139,000
1919	May 24, 1919	13.70	80,800
1920	Mar. 14, 1920	20.90	170,000
1921	Mar. 10, 1921	15.50	101,000
1922	Nov. 30, 1921	18.10	133,000
1923	Mar. 05, 1923	15.80	105,000
1924	Apr. 08, 1924	18.80	142,000
1925	Feb. 13, 1925	20.30	162,000
1926	Mar. 27, 1926	15.50	101,000
1927	Nov. 17, 1926	18.80	142,000
1928	Oct. 21, 1927	19.90	156,000
1929	Apr. 23, 1929	20.35	163,000
1930	Mar. 09, 1930	13.50	78,700
1931	Mar. 30, 1931	14.35	88,500
1932	Apr. 02, 1932	17.05	119,000
1933	Aug. 25, 1933	17.04	119,000
1934	Mar. 06, 1934	14.50	98,600
1935	Jul. 11, 1935	20.00	153,000
1936	Mar. 20, 1936	27.42	250,000
1937	Jan. 23, 1937	15.20	93,400
1938	Oct. 24, 1937	13.80	79,400
1939	Feb. 22, 1939	19.20	139,000
1940	Apr. 02, 1940	25.25	222,000
1941	Apr. 07, 1941	19.45	142,000
1942	Mar. 11, 1942	17.08	116,000
1943	Jan. 01, 1943	24.00	204,000
1944	May 9, 1944	15.48	97,600

Table 2.3-7— Annual Peak Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

(Page 2 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1945	Mar. 05, 1945	17.55	121,000
1946	May 26, 1946	25.98	234,000
1947	Apr. 07, 1947	19.95	150,000
1948	Mar. 24, 1948	22.63	184,000
1949	Jan. 01, 1949	15.16	89,600
1950	Mar. 30, 1950	21.81	168,000
1951	Dec. 05, 1950	19.02	131,000
1952	Mar. 13, 1952	18.84	127,000
1953	Dec. 13, 1952	16.80	103,000
1954	May 5, 1954	14.71	82,100
1955	Mar. 03, 1955	15.09	85,900
1956	Mar. 09, 1956	22.47	175,000
1957	Apr. 08, 1957	17.78	114,000
1958	Apr. 08, 1958	21.87	169,000
1959	Jan. 24, 1959	17.45	112,000
1960	Apr. 02, 1960	23.92	198,000
1961	Feb. 28, 1961	21.72	167,000
1962	Apr. 02, 1962	19.38	136,000
1963	Mar. 29, 1963	18.89	130,000
1964	Mar. 11, 1964	25.13	261,000
1965	Feb. 14, 1965	N.A	44,900
1966	Feb. 15, 1966	16.26	98,900
1967	Mar. 30, 1967	15.23	87,500
1968	Mar. 24, 1968	16.75	104,000
1969	Apr. 07, 1969	14.67	81,700
1970	Apr. 04, 1970	18.24	122,000
1971	Mar. 17, 1971	17.34	111,000
1972	Jun. 25, 1972	32.16	363,000
1973	Dec. 08, 1972	15.96	99,600
1974	Dec. 29, 1973	16.39	103,000
1975	Sep. 28, 1975	27.52	257,000
1976	Feb. 19, 1976	18.13	120,000
1977	Sep. 27, 1977	18.04	122,000
1978	Mar. 23, 1978	17.98	116,000
1979	Mar. 07, 1979	23.93	188,000
1980	Mar. 23, 1980	16.65	104,000
1981	Feb. 22, 1981	16.95	105,000
1982	Oct. 30, 1981	14.61	83,300
1983	Apr. 17, 1983	20.53	149,000
1984	Apr. 07, 1984	24.14	194,000
1985	Mar. 14, 1985	11.77	55,300
1986	Mar. 16, 1986	22.68	173,000
1987	Apr. 06, 1987	16.74	104,000
1988	May 21, 1988	14.81	83,500
1989	May 15, 1989	17.70	116,000
1990	Feb. 18, 1990	13.51	70,900

Table 2.3-7— Annual Peak Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

(Page 3 of 3)

Water Year	Date	Gage Height (ft)	Streamflow (cfs)
1991	Oct. 25, 1990	18.51	124,000
1992	Mar. 29, 1992	15.37	89,200
1993	Apr. 03, 1993	23.97	187,000
1994	Mar. 26, 1994	20.15	139,000
1995	Jan. 22, 1995	13.81	73,700
1996	Jan. 21, 1996	25.96	209,000
1997	Dec. 03, 1996	19.06	130,000
1998	Jan. 10, 1998	20.43	143,000
1999	Jan. 25, 1999	17.81	116,000
2000	Feb. 29, 2000	19.24	132,000
2001	Apr. 11, 2001	15.95	97,800
2002	May 15, 2002	14.84	84,700
2003	Mar. 22, 2003	18.81	130,000
2004	Sep. 19, 2004	26.22	220,000
2005	Apr. 04, 2005	24.28	202,000
2006	Jun. 28, 2006	28.19	260,000
Note: N.A. = Not Available			

Table 2.3-8— Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

(Page 1 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1905				26,690	6,975	11,620	6,260	6,885	15,520	10,060	6,878	22,370	
1906	18,760	13,000	22,820	44,750	14,010	18,240	8,100	5,331	3,203	7,000	12,300	13,950	15,122
1907	32,910	5,861	26,290	20,100	15,810	6,923	6,359	2,296	6,974	12,670	22,020	35,290	16,125
1908	16,680	25,740	51,260	27,780	31,220	5,752	3,637	1,960	1,016	1,346	1,935	1,602	14,161
1909	16,220	38,830	23,740	31,820	32,710	11,850	2,798	1,852	1,437	1,545	1,593	2,584	13,915
1910	12,070	7,473	55,380	20,850	17,720	14,050	2,864	1,486	1,566	1,636	4,058	3,169	11,860
1911	23,580	9,125	23,720	34,140	7,699	8,713	2,594	2,343	5,892	12,700	11,550	16,960	13,251
1912	7,800	10,780	38,270	53,280	21,170	5,148	2,088	3,116	15,420	11,570	16,190	19,600	17,036
1913	43,230	9,358	45,020	24,970	12,600	6,498	2,440	1,318	1,540	4,069	11,870	8,030	14,245
1914	8,545	18,160	34,920	64,170	31,080	5,310	6,131	6,258	4,822	2,159	2,400	2,742	15,558
1915	33,090	42,620	14,230	14,970	10,860	4,194	28,490	23,110	8,444	10,920	7,879	13,260	17,672
1916	28,700	13,950	22,340	71,860	18,850	27,360	10,610	3,262	3,701	6,272	6,212	9,144	18,522
1917	16,300	6,172	31,350	23,400	14,130	31,190	19,040	17,000	7,562	17,750	18,310	3,981	17,182
1918	2,347	25,200	49,110	34,650	18,290	12,060	5,111	2,849	6,956	11,030	16,260	12,810	16,389
1919	14,250	7,635	23,630	24,330	31,250	6,039	5,546	4,664	2,473	3,100	17,670	13,300	12,824
1920	4,013	2,841	60,370	26,320	11,050	5,347	8,229	8,514	7,688	11,500	14,870	29,340	15,840
1921	9,878	11,120	42,470	19,140	12,590	3,280	3,948	3,594	2,664	3,542	20,660	22,200	12,924
1922	7,430	18,650	37,800	38,940	11,050	28,690	14,460	5,834	4,916	2,402	2,329	2,821	14,610
1923	10,690	7,754	41,870	21,040	17,200	5,029	2,908	2,134	2,489	4,246	4,884	18,240	11,540
1924	23,650	6,335	16,110	46,590	27,550	7,487	6,139	3,030	4,367	21,010	4,001	6,196	14,372
1925	3,600	42,760	23,410	17,220	13,090	4,436	6,850	5,852	5,555	7,076	21,570	18,530	14,162
1926	11,030	17,380	32,950	37,850	8,879	4,755	2,623	6,863	7,270	16,560	38,540	9,884	16,215
1927	13,620	24,310	49,610	17,990	28,470	9,109	3,675	3,729	4,692	27,320	34,140	41,170	21,486
1928	15,980	19,430	23,570	35,390	26,120	25,300	22,670	8,542	3,481	2,541	3,878	7,904	16,234
1929	5,729	6,196	43,640	57,570	34,080	6,229	3,345	2,015	1,802	7,475	11,290	15,510	16,240
1930	23,530	14,160	32,470	21,570	10,890	10,450	4,406	1,318	2,093	1,186	1,169	2,215	10,455
1931	1,853	4,309	22,200	34,740	25,440	8,604	7,905	3,169	2,181	1,501	2,730	10,830	10,455
1932	23,410	22,480	14,430	45,700	19,010	4,794	4,662	2,627	1,279	12,850	26,930	7,636	15,484
1933	10,230	7,600	29,370	38,910	13,080	5,651	3,423	14,990	18,410	6,982	8,904	12,650	14,183
1934	19,520	4,192	21,120	37,360	7,989	5,057	2,447	1,979	8,769	6,301	11,070	18,820	12,052

Table 2.3-8— Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

(Page 2 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1935	22,380	9,110	35,520	33,970	21,640	5,199	22,850	5,455	2,698	2,206	25,460	17,460	16,996
1936	11,610	6,014	91,900	30,280	9,428	4,058	1,738	2,352	1,768	3,523	14,260	14,800	15,978
1937	36,760	17,490	16,090	41,430	19,630	9,863	5,218	7,180	5,984	14,650	17,010	15,760	17,255
1938	13,430	25,760	26,470	20,810	9,120	5,055	5,117	5,448	13,280	5,505	8,292	27,460	13,812
1939	9,322	34,870	36,540	32,930	7,258	2,803	1,605	1,662	911.5	2,139	5,257	7,104	11,867
1940	3,911	4,176	20,620	97,110	18,020	10,990	6,578	2,343	6,115	3,741	10,950	18,200	16,896
1941	14,990	7,337	16,390	43,570	5,643	4,415	2,465	3,132	1,457	1,127	2,712	8,076	9,276
1942	7,613	8,429	41,600	24,080	20,540	10,580	4,605	6,132	4,972	13,660	20,190	23,630	15,503
1943	33,560	22,900	40,340	29,810	44,980	14,600	3,654	2,941	2,011	8,207	23,310	6,597	19,409
1944	3,754	7,272	30,950	32,900	24,280	11,170	4,149	1,845	2,161	3,931	5,461	11,790	11,639
1945	11,520	14,770	66,550	19,050	32,990	15,570	10,140	7,149	12,030	19,910	27,540	18,900	21,343
1946	20,490	7,163	38,140	7,664	37,300	25,600	7,933	7,651	3,090	8,306	5,702	4,394	14,453
1947	18,590	13,560	24,790	43,390	41,620	20,500	18,230	8,488	4,690	1,941	8,676	6,634	17,592
1948	4,121	14,370	54,340	37,420	24,970	10,650	6,838	4,418	1,623	1,734	8,543	11,810	15,070
1949	35,400	21,690	18,290	22,480	15,480	4,502	1,971	2,173	3,479	3,987	6,451	16,140	12,670
1950	24,950	15,360	36,690	45,660	16,260	13,770	4,992	4,979	11,580	6,291	21,130	35,330	19,749
1951	27,270	35,210	31,730	36,270	7,972	6,465	8,685	3,544	2,209	2,206	12,090	19,780	16,119
1952	34,060	19,190	35,650	34,000	23,940	7,858	7,143	3,423	4,159	1,829	7,034	23,580	16,822
1953	23,490	21,100	29,130	26,670	24,500	8,629	2,608	1,589	1,653	1,477	3,817	12,460	13,094
1954	7,151	23,560	24,230	25,310	25,180	9,309	2,410	1,380	2,335	1,642	11,060	17,820	12,616
1955	15,950	13,270	44,810	17,850	7,356	4,393	1,708	8,922	3,071	30,330	29,280	9,984	15,577
1956	7,694	16,860	45,600	56,540	20,630	9,339	7,264	3,276	7,350	6,066	8,861	24,810	17,858
1957	15,940	12,210	23,660	41,090	15,530	5,294	3,321	2,268	1,836	2,209	4,507	18,600	12,205
1958	13,370	7,872	29,950	75,350	28,060	12,570	7,421	3,451	4,858	7,035	13,690	8,810	17,703
1959	18,280	16,340	25,170	36,320	11,630	3,675	2,289	1,514	2,188	9,127	25,600	35,820	15,663
1960	20,550	23,580	12,950	61,820	24,610	23,230	5,934	4,531	12,430	4,796	5,715	3,983	17,011
1961	3,274	25,900	37,090	47,330	23,860	12,710	5,200	5,043	3,096	1,546	3,461	5,740	14,521
1962	13,180	6,175	28,160	46,910	10,470	2,923	1,359	1,675	1,339	8,947	14,020	9,736	12,075
1963	8,029	6,514	43,000	26,730	14,650	6,684	2,889	1,934	1,241	984.3	2,717	9,145	10,376
1964	20,300	10,970	61,210	29,170	14,840	3,420	1,745	1,091	740.3	867.7	852.4	2,786	12,333

Table 2.3-8— Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

(Page 3 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	5,624	17,150	11,740	24,410	11,850	4,189	1,308	1,625	2,080	4,580	6,735	9,639	8,411
1966	8,595	20,440	39,060	17,930	22,370	8,552	2,165	1,613	1,574	2,083	3,854	11,340	11,631
1967	10,160	12,080	27,270	29,710	25,990	7,602	5,666	8,076	4,438	9,505	23,460	20,470	15,369
1968	7,423	15,990	28,220	15,440	20,160	23,070	8,742	2,452	6,052	3,334	23,610	16,750	14,270
1969	10,890	11,890	14,670	31,140	14,180	10,920	5,906	6,460	1,892	1,787	14,840	15,540	11,676
1970	7,226	26,450	19,530	55,460	15,920	5,449	4,482	2,666	2,633	6,641	16,550	12,700	14,642
1971	9,125	23,530	42,660	35,140	20,990	4,894	2,298	4,425	2,944	2,684	4,070	23,410	14,681
1972	18,110	7,645	46,580	41,550	33,120	62,370	17,240	4,701	2,416	2,947	31,840	42,700	25,935
1973	22,360	20,490	28,310	34,380	23,570	12,670	9,428	4,203	4,500	3,078	5,471	37,380	17,153
1974	26,780	20,990	26,140	40,960	16,070	6,803	7,448	3,229	8,007	4,983	12,400	23,030	16,403
1975	23,040	31,680	28,960	20,670	22,150	13,790	5,816	3,435	30,900	29,060	16,280	15,570	20,113
1976	18,760	46,420	32,500	20,480	19,450	14,540	11,430	10,040	5,698	35,080	15,240	11,090	20,061
1977	5,187	11,250	57,620	34,250	14,000	4,443	4,050	4,237	25,450	43,890	30,970	37,730	22,756
1978	37,030	13,910	44,050	43,570	21,820	8,738	3,502	5,632	3,754	5,335	5,659	11,440	17,037
1979	40,070	15,070	55,340	27,040	17,820	8,873	3,034	2,615	5,315	10,040	17,240	15,760	18,185
1980	8,755	4,010	32,190	40,040	13,140	3,984	4,474	2,226	1,417	1,796	4,388	7,380	10,317
1981	2,729	43,290	13,240	12,120	16,410	9,403	4,523	2,874	3,893	13,080	17,500	12,120	12,599
1982	11,490	18,030	33,400	33,170	8,892	23,790	8,542	3,128	1,816	1,783	4,192	8,903	13,095
1983	8,560	19,620	20,320	56,670	34,060	10,080	4,799	2,358	1,588	1,799	6,226	39,040	17,093
1984	6,461	38,810	18,270	55,060	34,360	18,060	12,910	8,550	3,356	2,417	5,029	22,070	18,779
1985	11,380	10,600	23,500	16,570	7,275	5,319	3,657	2,811	5,619	7,923	19,850	20,260	11,230
1986	12,640	21,340	46,380	24,880	12,940	14,110	6,766	10,080	3,082	7,225	24,780	24,530	17,396
1987	10,160	5,771	28,000	40,150	7,786	5,250	7,155	2,550	13,140	7,070	10,590	16,850	12,873
1988	8,529	18,380	21,940	15,350	23,100	5,380	3,434	2,732	4,601	3,266	14,130	6,839	10,640
1989	6,531	8,508	14,050	28,440	44,090	27,710	8,753	3,365	3,641	11,060	16,660	6,548	14,946
1990	16,500	40,980	20,070	25,260	25,800	8,817	7,579	5,668	4,079	26,710	25,310	32,050	19,902
1991	24,930	22,320	30,730	24,190	13,420	3,435	1,729	1,715	1,480	2,220	6,080	13,280	12,127
1992	13,760	9,441	27,960	30,280	16,710	12,410	7,591	10,980	8,582	10,860	25,470	18,250	16,025
1993	26,550	6,229	21,870	106,900	16,290	4,904	2,365	2,081	2,733	3,898	18,800	24,950	19,798
1994	8,276	20,330	48,400	68,430	14,580	12,630	11,290	21,810	8,567	6,622	12,100	21,680	21,226

Table 2.3-8— Monthly Streamflow for Wilkes-Barre, PA USGS Station No. 01536500, (1899 through 2006)

(Page 4 of 4)

Discharge, cubic feet per second													
Year	Monthly mean in cfs (Calculation Period: 4/01/1905 - 9/30/2006)												Average Yearly
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1995	22,830	9,418	23,150	16,080	7,515	4,984	2,527	1,937	1,605	10,850	18,460	12,560	10,993
1996	44,410	21,470	25,310	36,640	40,940	9,710	10,710	5,867	5,504	14,980	31,230	49,410	24,682
1997	14,240	15,160	29,850	21,720	16,010	7,591	2,972	2,166	2,306	2,072	7,568	11,440	11,091
1998	39,690	24,400	44,160	36,060	22,520	13,560	14,090	2,745	2,003	2,797	2,327	3,303	17,305
1999	21,190	19,580	24,940	26,100	7,587	2,427	1,961	1,087	6,046	6,697	6,917	14,520	11,588
2000	14,310	21,490	40,550	45,100	32,860	21,720	7,803	7,372	4,247	7,028	5,771	15,200	18,621
2001	6,745	15,660	22,020	46,520	6,408	10,530	4,397	2,154	3,849	2,856	2,552	10,170	11,155
2002	6,552	23,180	20,410	20,610	34,040	23,660	4,578	1,795	2,543	13,030	17,810	20,840	15,754
2003	18,500	12,350	48,140	33,290	14,250	32,960	11,420	13,990	17,460	18,550	28,830	37,990	23,978
2004	19,150	7,373	34,870	27,970	23,720	10,630	13,780	19,720	40,630	12,380	14,500	35,800	21,710
2005	36,310	21,020	26,950	54,720	8,578	4,813	3,675	1,591	2,374	18,200	21,280	25,800	18,776
2006	40,330	24,280	14,620	15,360	10,930	36,060	28,330	8,739	14,520				
Mean of Monthly Discharge	16,500	16,900	32,500	35,000	19,300	11,100	6,590	4,830	5,580	8,000	13,000	16,500	15,483

Table 2.3-9— Mean Daily Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second												
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	17,600	14,900	24,000	44,800	23,200	13,400	9,900	5,270	4,540	7,300	10,100	17,700
2	17,900	14,500	23,900	44,700	22,600	13,100	9,740	5,300	4,610	7,320	9,860	17,700
3	18,100	14,600	23,800	44,800	21,700	12,800	9,220	5,180	5,070	6,860	9,800	18,200
4	17,800	15,700	24,100	44,600	20,900	12,900	8,560	5,100	5,580	6,400	10,300	17,900
5	17,000	15,000	25,000	44,100	20,500	13,100	7,830	5,240	5,570	6,140	10,100	17,900
6	16,900	13,800	26,700	45,300	19,700	12,200	7,380	5,120	4,910	5,800	10,200	17,400
7	17,100	12,900	28,300	46,200	19,800	12,600	6,910	4,990	4,790	6,040	10,400	17,300
8	17,800	12,400	28,800	44,500	20,300	12,300	6,670	4,810	4,310	6,370	10,200	17,100
9	18,400	12,000	28,100	41,700	20,300	11,500	6,910	4,580	3,990	6,260	11,800	17,100
10	17,800	11,700	28,300	39,400	20,100	10,700	8,840	4,850	3,950	6,800	13,400	17,100
11	16,400	12,900	27,800	38,100	20,600	9,860	8,400	4,870	4,230	6,840	13,500	17,700
12	15,200	14,800	27,900	36,600	21,700	9,620	7,060	4,800	4,100	6,420	13,000	18,200
13	15,000	14,800	29,100	35,200	22,300	9,710	6,270	4,610	4,590	6,060	12,200	18,000
14	14,700	14,300	30,000	34,600	22,800	9,890	6,270	4,680	4,780	6,190	12,200	18,200
15	14,600	15,400	32,000	35,100	21,600	10,000	6,180	4,530	4,650	6,210	12,900	18,800
16	14,400	17,500	34,000	35,600	20,200	10,700	5,860	4,950	4,540	6,990	13,000	18,100
17	14,000	17,600	34,700	35,400	19,000	10,600	5,600	4,770	5,090	7,590	13,900	17,000
18	13,500	17,500	36,300	33,900	17,900	10,800	5,290	4,550	5,700	7,760	14,400	15,900
19	13,900	17,200	36,100	31,100	17,600	11,100	5,180	5,470	7,020	8,350	14,400	15,500
20	15,100	17,000	34,000	29,100	17,100	9,990	5,090	5,200	6,600	9,450	14,900	15,100
21	15,700	18,500	33,000	28,300	17,300	9,620	4,990	4,610	6,080	10,300	14,800	14,700
22	16,700	19,900	33,700	28,400	18,200	10,700	5,100	4,430	5,810	10,200	14,500	14,800
23	17,400	20,400	35,600	28,300	18,800	12,200	5,540	4,700	5,970	9,660	14,100	14,600
24	17,200	21,000	35,600	27,300	17,800	12,500	5,810	5,020	5,880	9,490	13,600	14,500
25	18,000	22,700	34,900	26,800	17,500	12,100	6,070	5,300	6,160	9,730	13,500	15,200
26	19,000	24,800	35,900	27,400	17,400	10,200	6,060	4,940	7,440	9,820	14,000	15,300
27	19,400	25,200	37,400	26,100	16,700	8,980	5,540	4,400	8,430	10,200	14,400	15,100
28	18,600	24,200	41,300	24,700	16,200	10,100	5,410	4,240	8,710	10,000	15,600	14,600
29	17,100	19,900	45,200	23,700	16,500	10,500	5,840	4,560	7,280	10,100	17,500	14,000
30	15,900		45,700	23,200	16,500	10,300	5,520	4,260	6,930	10,700	17,800	14,700
31	14,900		44,900		14,700		5,230	4,360		10,700		16,200

Table 2.3-10— Maximum Daily Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second												
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	201,000	82,200	124,000	205,000	91,900	76,600	147,000	44,400	40,000	129,000	94,200	93,600
2	161,000	77,600	144,000	219,000	126,000	75,500	117,000	44,800	27,800	126,000	72,500	92,400
3	102,000	54,300	160,000	187,000	116,000	75,800	82,200	31,400	38,400	96,500	52,700	116,000
4	106,000	83,000	154,000	199,000	86,300	84,400	50,600	24,400	47,300	60,800	59,200	120,000
5	74,300	70,600	127,000	188,000	76,900	66,100	44,100	55,000	50,200	41,100	56,000	125,000
6	61,600	59,000	128,000	168,000	64,500	49,200	45,800	58,500	42,200	33,100	50,800	115,000
7	85,000	54,400	182,000	191,000	68,100	72,500	36,900	66,500	39,700	41,200	52,800	82,500
8	81,300	43,900	166,000	160,000	82,800	69,000	35,000	49,900	37,400	57,200	52,900	91,100
9	115,000	43,800	163,000	161,000	95,400	57,700	51,300	35,100	24,400	48,400	62,500	85,400
10	138,000	40,600	158,000	146,000	73,400	46,800	138,000	39,100	26,200	93,600	113,000	77,900
11	117,000	78,700	203,000	140,000	90,900	40,800	134,000	47,600	63,300	106,000	113,000	94,100
12	98,400	147,000	185,000	177,000	98,000	40,800	80,600	43,500	43,200	76,200	85,400	99,900
13	80,300	159,000	186,000	154,000	114,000	45,000	45,800	31,100	35,400	50,900	72,500	98,100
14	73,400	131,000	179,000	110,000	112,000	49,200	41,300	27,800	38,400	37,500	55,400	131,000
15	142,000	93,900	125,000	106,000	99,000	42,500	39,600	30,300	33,800	43,600	73,400	189,000
16	126,000	159,000	170,000	112,000	75,500	54,500	33,000	40,800	31,800	123,000	77,400	154,000
17	85,600	149,000	148,000	144,000	76,700	60,200	25,200	30,800	69,400	164,000	128,000	102,000
18	63,500	114,000	190,000	119,000	76,300	69,300	21,800	27,500	74,600	117,000	134,000	68,600
19	98,000	117,000	241,000	113,000	56,800	82,900	25,300	78,500	205,000	106,000	112,000	57,600
20	155,000	116,000	245,000	85,200	63,700	47,600	25,700	82,100	179,000	131,000	93,000	64,600
21	205,000	107,000	210,000	84,100	73,200	40,800	19,100	56,900	93,500	152,000	73,500	51,000
22	155,000	133,000	157,000	131,000	72,400	91,200	21,800	47,900	61,000	110,000	69,600	84,400
23	103,000	101,000	160,000	158,000	87,900	262,000	24,100	45,800	54,200	72,100	55,800	78,700
24	101,000	89,400	181,000	121,000	98,000	328,000	38,800	53,000	67,800	69,500	51,000	69,600
25	100,000	112,000	135,000	92,300	82,800	335,000	39,200	114,000	62,400	116,000	46,100	88,400
26	110,000	154,000	138,000	119,000	105,000	188,000	50,100	88,500	112,000	99,300	80,700	85,100
27	91,600	166,000	118,000	135,000	90,800	96,300	26,600	53,600	217,000	82,500	114,000	64,200
28	112,000	152,000	187,000	109,000	131,000	206,000	30,900	34,600	236,000	70,400	94,800	90,200
29	90,900	127,000	216,000	82,600	226,000	234,000	76,500	47,200	124,000	59,000	105,000	97,400
30	67,300		212,000	75,600	200,000	180,000	66,500	26,000	65,300	76,800	124,000	78,800
31	61,400		162,000		105,000		50,500	40,000		109,000		175,000

Table 2.3-11— Minimum Daily Streamflow for Danville, PA USGS Station No. 01540500, (1905 through 2006)

Discharge, cubic feet per second												
Day	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
1	1,300	1,850	2,400	7,730	6,370	3,250	1,760	974	880	980	842	1,310
2	1,300	1,800	2,600	8,630	6,940	3,420	1,720	924	860	916	842	1,220
3	1,500	1,800	3,000	8,810	6,750	3,170	1,660	940	860	931	813	1,240
4	1,500	1,800	3,400	8,460	6,180	3,000	1,600	920	840	978	784	1,400
5	1,280	1,750	4,000	8,010	5,800	2,920	1,560	894	840	978	755	1,450
6	1,430	1,700	3,600	7,660	5,250	3,000	1,480	888	857	886	755	1,420
7	1,700	1,700	3,440	7,570	5,250	2,900	1,420	921	857	857	742	1,500
8	1,920	1,700	3,530	8,100	5,440	2,790	1,380	974	813	842	742	1,420
9	1,850	1,750	3,600	8,540	6,030	2,720	1,280	940	770	857	755	1,250
10	1,800	1,700	3,600	8,440	5,920	2,600	1,230	876	755	842	742	1,100
11	1,810	1,600	4,360	8,130	6,110	2,500	1,270	880	770	799	742	1,350
12	1,850	1,550	4,260	7,730	5,760	2,400	1,210	860	755	813	755	1,300
13	1,550	1,650	4,050	7,530	5,540	2,300	1,250	860	715	813	742	1,300
14	1,600	1,800	3,800	6,970	5,260	2,200	1,190	1,140	674	799	742	1,650
15	1,700	1,900	3,680	6,930	4,820	2,200	1,270	1,090	661	799	742	1,700
16	1,700	2,100	3,680	7,140	4,700	2,100	1,100	1,020	647	799	742	1,600
17	1,750	2,700	3,710	6,750	4,540	2,100	1,040	1,020	634	828	728	1,530
18	1,800	3,200	3,770	6,560	4,470	2,300	1,180	1,000	634	857	728	1,700
19	1,900	3,000	4,190	7,140	4,380	2,400	1,150	1,000	647	891	755	1,500
20	2,100	3,000	5,480	7,340	4,200	2,300	1,170	1,020	634	889	799	1,400
21	1,900	2,900	7,220	6,750	4,000	2,000	1,150	1,020	595	871	813	1,600
22	1,800	2,800	7,350	6,180	3,980	1,900	1,130	993	595	871	828	1,600
23	1,750	2,600	7,150	5,990	3,820	1,800	1,090	1,010	595	871	784	1,430
24	1,700	2,600	6,800	5,990	3,940	1,800	1,090	1,020	558	869	799	1,250
25	1,700	2,600	6,960	5,800	3,790	1,700	1,140	1,040	558	842	842	1,700
26	1,800	2,400	6,720	5,620	3,640	1,700	1,120	993	595	850	1,100	1,700
27	1,950	2,300	6,530	5,620	3,700	1,600	1,060	993	558	839	1,200	1,700
28	2,100	2,300	6,940	5,620	3,610	1,500	1,010	978	595	857	1,180	1,500
29	2,100	2,600	6,790	5,620	3,610	1,600	978	947	770	842	1,150	1,700
30	2,050		6,980	5,800	3,390	1,760	947	947	952	871	1,290	1,500
31	1,900		7,610		3,170		900	900		846		1,300

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

(Page 1 of 8)

NAME OWNER PURPOSE STATUS (DATE)	TIOGA[1,2] (PA) CENAB FLOOD CONTROL / RECREATION COMPLETE (1980)	HAMMOND[1,2] (PA) CENAB FLOOD CONTROL / RECREATION COMPLETE (1980)	STILLWATER [1,2] (PA) CENAB FLOOD CONTROL / WATER SUPPLY COMPLETE (1960)	AYLESWORTH CREEK[4] (PA) CENAB FLOOD CONTROL / WATER SUPPLY COMPLETE (1970)	COWANESQUE[1,2] (PA) CENAB FLOOD CONTROL / RECREATION / WATER SUPPLY COMPLETE (1980)
Stream	Tioga River	Crooked Creek	Lackawanna River	Aylesworth Creek	Cowanesque River
River Mile	350	350	234	-	341
Drainage Area (sq. mi)	280	122	37.1	6	298
Structure Type	Earth Fill	Earth Fill	Earth Fill	Earth Fill	Rolled Earth / Rock Fill
Dam Crest Length (ft)	2,710	6,450	1,700	1,270	3,100
Height of Dam (ft)	140	122	77	90	151
Design Freeboard (ft)	5.2	5.3	4.9	-	5.7
Spillway Crest Length (ft)	312	312	264	80	400
Design Discharge (Cfs)	-	215,500	37,780	10,000	224,000
Elevations (ft MSL)					
Gate Sill	-	-	-	-	-
Conservation Pool	-	-	-	-	-
Recreation Pool	1,081.00	1,086.00	-	-	1,080.00
Flood Control Pool	1,131.00	1,131.00	1,621.00	-	1,117.00
Maximum Pool	-	-	-	-	-
Top of Dam	1.171.00	1,168.50	-	-	1,154.00
Storage Volumes (Acre-ft)					
Conservation Pool	-	-	-	-	-
Recreation Pool	9,500	8,850	-	-	32,600
Flood Control Pool	62,000	63,000	12,000	-	89,110
Maximum Pool	143,200	136,000	17,000	3,040	171,000
Reservoir Areas (Acres)					
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

(Page 2 of 8)

NAME OWNER PURPOSE STATUS (DATE)	EAST SIDNEY[1,3] (NY) CORPS OF ENGINEERS - BALTIMORE DISTRICT FLOOD CONTROL / RECREATION COMPLETE (1950)	WHITNEY POINT[1,3] (NY) CENAB FLOOD CONTROL / RECREATION COMPLETE (1942)	ALMOND[1, 3] (NY) CORPS OF ENGINEERS - BALTIMORE DISTRICT FLOOD CONTROL / RECREATION COMPLETE (1949)	MILL BROOK SITE 2 DAM[4] (NY) TOWN OF NEW BERLIN FLOOD CONTROL COMPLETE (1986)	PATTERSON BRIXUS GREY WATERSHED[4] (NY) BROOME COUNTY FLOOD CONTROL COMPLETE (1966)
Stream	Ouleout Creek	Otselic River	Canacadea Creek	Tr-Unadilla River	Patterson Creek
River Mile	405	331	373	-	-
Drainage Area (sq. mi)	103	257	55.8	1.35	4.4199
Structure Type	Concrete Dam / Rock Fill Dike	Earth Fill	Earth Fill	Earth Fill	Earth Fill
Dam Crest Length (ft)	750 (concrete) 2,010 (earth)	4,900	1,260	730	1,300
Height of Dam (ft)	130	95	90	87	65
Design Freeboard (ft)	6	8.7	5.5	-	-
Spillway Crest Length (ft)	240	220	285	190	355
Design Discharge (Cfs)	81,000	75,000	54,000	5,617	17,500
Elevations (ft MSL)					
Gate Sill	1,115.00	950	1,229.00	-	-
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	1,203.00	1,010.00	1,300.00	-	-
Maximum Pool	-	-	-	-	-
Top of Dam	1,228.50	1,039.50	1,320.00	-	-
Storage Volumes (Acre-ft)					
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	33,606	86,468	14,800	-	-
Maximum Pool	58,350	176,000	22,600	1,065	1,280
Reservoir Areas (Acres)					
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

NAME OWNER PURPOSE STATUS (DATE)	FINCH HOLLOW SITE 2[4] (NY) BROOME COUNTY FLOOD CONTROL COMPLETE (1973)	NANTICOKE CREEK SITE 13[4] (NY) BROOME COUNTY FLOOD CONTROL COMPLETE (1967)	NANTICOKE CREEK SITE 7A[4] (NY) BROOME COUNTY FLOOD CONTROL COMPLETE (1981)	ARKPORT[4] (NY) CENAB FLOOD CONTROL COMPLETE (1940)	NEWTOWN HOFFMAN SITE 3A[4] (NY) CHEMUNG COUNTY FLOOD CONTROL / RECREATION COMPLETE (1976)
Stream	Little Choconut Creek	Bradley Creek	Tr-Nanticoke Creek	Canisteo River	Newton Creek
River Mile	-	-	-	-	-
Drainage Area (sq. mi)	11.72	6.0999	5	30	2.6699
Structure Type	Earth Fill	Earth Fill	Earth Fill	Earth Fill	Earth Fill
Dam Crest Length (ft)	1,050	700	1,300	1,200	800
Height of Dam (ft)	57	57	67	113	53
Design Freeboard (ft)	-	-	-	-	-
Spillway Crest Length (ft)	107	331	500	160	200
Design Discharge (Cfs)	31,403	12,600	19,084	29,100	7,155
Elevations (ft MSL)					
Gate Sill	-	-	-	-	-
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-
Maximum Pool	-	-	-	-	-
Top of Dam	-	-	-	-	-
Storage Volumes (Acre-ft)					
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-
Maximum Pool	1,480	1,395	1,475	10,800	1,191
Reservoir Areas (Acres)					
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

(Page 4 of 8)

NAME OWNER PURPOSE STATUS (DATE)	NEWTON HOFFMAN SITE 12E[4] (NY) CHEMUNG COUNTY FLOOD CONTROL COMPLETE (1989)	NEWTON HOFFMAN SITE 5A[4] (NY) CHEMUNG COUNTY FLOOD CONTROL COMPLETE (1999)	EATON BROOK RESERVOIR[4] (NY) NYS CANAL CORP NAVIGATION / RECREATION COMPLETE (1893)	KINGSLEY BROOK RESERVOIR[4] (NY) NYS CANAL CORP RECREATION COMPLETE (1867)	LAKE MORAIN[4] (NY) NYS CANAL CORP NAVIGATION / RECREATION / OTHER COMPLETE (1836)
Stream	N Branch Newton Crk.	Jackson Creek	Eaton Brook	Kingsley Brook	Payne Brook
River Mile	-	-	-	-	-
Drainage Area (sq. mi)	18.09	1977	7.96	5.21	8.21
Structure Type	Earth Fill	Earth Fill	Earth Fill	Earth Fill	Earth Fill
Dam Crest Length (ft)	2,250	315	820	900	1,400
Height of Dam (ft)	71	58	58	63	57
Design Freeboard (ft)	-	-	-	-	-
Spillway Crest Length (ft)	166	0	41	16	35
Design Discharge (Cfs)	47,919	21,243	3,060	671	1,070
Elevations (ft MSL)					
Gate Sill	-	-	-	-	-
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-
Maximum Pool	-	-	-	-	-
Top of Dam	-	-	-	-	-
Storage Volumes (Acre-ft)					
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-
Maximum Pool	8,081	1,469	7,886	2,260	2,850
Reservoir Areas (Acres)					
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

(Page 5 of 8)

NAME	BROWNEL RESERVOIR[4] (PA)	ELMHURST[4] (PA)	WILLIAMS BRIDGE RESERVOIR[4] (PA)	LAKE SCRANTON[4] (PA)	NESBITT[4] (PA)
OWNER	PENNSYLVANIA - AMERICAN WATER COMPANY	PENNSYLVANIA - AMERICAN WATER COMPANY	PENNSYLVANIA - AMERICAN WATER COMPANY	PENNSYLVANIA - AMERICAN WATER COMPANY	PENNSYLVANIA - AMERICAN WATER COMPANY
PURPOSE	WATER SUPPLY	WATER SUPPLY	WATER SUPPLY	WATER SUPPLY	HYDROELECTRIC / WATER SUPPLY
STATUS (DATE)	COMPLETE (1908)	COMPLETE (1889)	COMPLETE (1893)	COMPLETE (1898)	COMPLETE (1903)
Stream	Racket Brook	Roaring Brook	Stafford Meadow Brook	Stafford Meadow Brook	Spring Brook
River Mile	-	-	-	-	-
Drainage Area (sq. mi)	4	37.2999	5.4	7.0499	37.1
Structure Type	Concrete	Earth Fill	Earth Fill	Earth Fill	Earth Fill
Dam Crest Length (ft)	613	380	810	460	267
Height of Dam (ft)	64	64	54	60	101
Design Freeboard (ft)	-	-	-	-	-
Spillway Crest Length (ft)	0	0	0	0	0
Design Discharge (Cfs)	0	0	0	0	0
Elevations (ft MSL)					
Gate Sill	-	-	-	-	-
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-
Maximum Pool	-	-	-	-	-
Top of Dam	-	-	-	-	-
Storage Volumes (Acre-ft)					
Conservation Pool	-	-	-	-	-
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-
Maximum Pool	2,995	3,744	1,276	8,397	5,034
Reservoir Areas (Acres)					
Recreation Pool	-	-	-	-	-
Flood Control Pool	-	-	-	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

(Page 6 of 8)

NAME OWNER PURPOSE STATUS (DATE)	WATRES[4] (PA) PENNSYLVANIA - AMERICAN WATER COMPANY WATER SUPPLY COMPLETE (1925)	LACKAWANNA[4] (PA) DCNR RECREATION COMPLETE (1971)	BEECHWOOD LAKE[4] (PA) PA FISH AND BOAT COMMISSION FLOOD CONTROL / RECREATION COMPLETE (1963)	MILL CREEK[4] (PA) PENNSYLVANIA - AMERICAN WATER COMPANY WATER SUPPLY COMPLETE (1898)
Stream	Spring Brook	S Branch Tunkhannock Ck.	E Beech Wood Creek	Mill Creek
River Mile	-	-	-	-
Drainage Area (sq. mi)	15.4	44.8999	3.2999	3
Structure Type	Earth Fill	Rock Fill	Earth Fill	Earth Fill
Dam Crest Length (ft)	1,406	350	1,030	1,345
Height of Dam (ft)	135	69	63	74
Design Freeboard (ft)	-	-	-	-
Spillway Crest Length (ft)	0	0	0	0
Design Discharge (Cfs)	0	0	0	0
Elevations (ft MSL)				
Gate Sill	-	-	-	-
Conservation Pool	-	-	-	-
Recreation Pool	-	-	-	-
Flood Control Pool	-	-	-	-
Maximum Pool	-	-	-	-
Top of Dam	-	-	-	-
Storage Volumes (Acre-ft)				
Conservation Pool	-	-	-	-
Recreation Pool	-	-	-	-
Flood Control Pool	-	-	-	-
Maximum Pool	8,241	14,200	2,400	2,350
Reservoir Areas (Acres)				
Recreation Pool	-	-	-	-
Flood Control Pool	-	-	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

(Page 7 of 8)

NAME OWNER PURPOSE STATUS (DATE)	FRANCES SLOCUM[4] (PA) DCNR FLOOD CONTROL / RECREATION COMPLETE (1965)	PIKES CREEK[4] (PA) PENNSYLVANIA - AMERICAN WATER COMPANY WATER SUPPLY COMPLETE (1911)
Stream	Abrahams Creek	Pikes Creek
River Mile	-	-
Drainage Area (sq. mi)	6.0999	10.5
Structure Type	Earth Fill	Earth Fill
Dam Crest Length (ft)	935	2,360
Height of Dam (ft)	51	65
Design Freeboard (ft)	-	-
Spillway Crest Length (ft)	0	0
Design Discharge (Cfs)	0	0
Elevations (ft MSL)		
Gate Sill	-	-
Conservation Pool	-	-
Recreation Pool	-	-
Flood Control Pool	-	-
Maximum Pool	-	-
Top of Dam	-	-
Storage Volumes (Acre-ft)		
Conservation Pool	-	-
Recreation Pool	-	-
Flood Control Pool	-	-
Maximum Pool	5,340	10,556
Reservoir Areas (Acres)		
Recreation Pool	-	-
Flood Control Pool	-	-

Table 2.3-12— {Susquehanna River Basin Upstream Dam Information}

Sources: **USGS, 2002; USGS, 2008c through g; PPL, 1999a; USACE, 2007**

[1]Dam information obtained from **PPL, 1999a.**

[2]Dam information obtained from **USGS, 2008c through g**

[3]Dam information obtained from **USGS, 2002**

[4]Dam information obtained from **USACE, 2007**

Table 2.3-13— Physical Characteristics of Groundwater Wells in the North Branch Susquehanna River Basin, Pennsylvania

Geologic Unit	Well Type (1)	Well Depth (ft)				Casing Length (ft)				Depth to Water (ft)			
		No. of Wells	Percentile (2)			No. of Wells	Percentile (2)			No. of Wells	Percentile (2)		
			25th	50th	75th		25th	50th	75th		25th	50th	75th
Alluvium, Glacial Outwash	D	56	42	56	88	54	44	57	90	45	10	18	24
	N	71	35	68	97	43	28	51	83	37	8	17	30
Catskill Formation	D	950	145	198	275	918	30	42	80	737	7	55	101
	N	247	194	293	438	182	37	62	100	155	25	60	120
Trimmers Rock Formation	D	84	117	199	255	78	20	22	40	58	20	31	58
	N	11	197	300	395	8	-	60	-	7	-	35	-
Mahantango and Marcellus Formations (Hamilton Group)	D	124	75	120	155	106	21	30	45	95	15	23	36
	N	29	150	300	500	24	25	39	46	20	7	16	30
Onondaga and Old Port Formations	D	6	-	147	-	5	-	22	-	5	-	30	-
	N	11	90	218	420	11	35	47	77	11	15	25	34
Keyser and Tonoloway Formations	D	17	75	150	185	17	35	45	95	13	10	35	71
	N	9	-	205	-	8	-	55	-	9	-	19	-

Notes:
(1) D = Domestic, N = Nondomestic
(2) N = Percent of wells that have values less than or equal to the value shown
Reference: Taylor, 1984

Table 2.3-14— Yields and Specific Capacities of Wells in the North Branch Susquehanna River Basin, Pennsylvania

Geologic Unit	Well Type (1)	Reported Well Yield (gpm)				Specific Capacity (gpm/ft)			
		No. of Wells	Percentile (2)			No. of Wells	Percentile (2)		
			25th	50th	75th		25th	50th	75th
Alluvium, Glacial Outwash	D	56	12	18	22	10	0.34	0.8	2
	N	60	50	164	500	20	7	20	43
Catskill Formation	D	931	7	12	20	352	0.16	0.5	1.0
	N	215	17	35	85	82	0.3	0.7	1.9
Trimmers Rock Formation	D	79	3	6	10	18	0.03	0.06	0.17
	N	11	10	15	30	5	-	0.10	-
Mahantango and Marcellus Formations (Hamilton Group)	D	103	6	10	17	53	0.06	0.18	0.69
	N	29	20	65	175	15	0.23	1.1	2.5
Onondaga and Old Port Formations	D	6	-	10	-	4	-	0.16	-
	N	9	-	122	-	6	-	3.5	-
Keyser and Tonoloway Formations	D	16	10	14	28	7	-	0.53	-
	N	7	-	80	-	6	-	2.1	-

Notes:
(1) D = Domestic, N = Nondomestic
(2) Percent of wells that have values less than or equal to the value shown
Reference: Taylor, 1984

Table 2.3-15— Specific Capacities of Wells in the Berwick-Bloomsburg-Danville Area, Pennsylvania

Geologic Unit	No. of Wells	Median Well Depth (ft) [1]	Specific Capacity (gpm/ft)			
			Percentile [2]			Range
			25th	50th	75th	
Glacial outwash	10	66	3.7	11	19	1.4-84
Catskill Formation	15	165	0.16	0.39	1.2	0.08-3.8
Trimmers Rock Formation	8	200	0.06	0.13	0.37	0.03-0.55
Harrell and Mahantango Formations	16	263	0.06	0.27	0.79	0.03-2.5
Marcellus Formation	15	255	0.07	0.19	0.5	0.03-18
Onondaga and Old Port Formations	13	259	1.2	3.2	9.3	0.47-350
Keyser and Tonoloway Formations	18	205	1.6	4.6	20	0.35-280
Shale	35	268	0.07	0.23	0.5	0.03-18
Sandstone and shale	23	200	0.12	0.22	0.55	0.03-3.8
Sandstone, limestone, and shale	11	250	0.07	0.13	0.8	0.03-1.4
Carbonate rock and shale	28	202	1.5	3.1	5.5	0.23-250
Carbonate rock	18	205	1.6	4.6	20	0.35-280

Notes:
(1) Feet below ground surface
(2) Percent of wells that have values less than or equal to the value shown
Reference: Williams, 1987

Table 2.3-16— Effect of Lithology on Well Yields, Berwick-Bloomsburg - Danville Area, Pennsylvania

Aquifer	Well Type [1]	No. of Wells	Median Well Depth (ft)[2]	Reported Well Yield (gpm)			
				Percentile [3]			Range
				25th	50th	75th	
Sand and gravel	D	4	44	-	20	-	15-50
	N	8	58	-	40	-	18-100
Shale	D	168	122	5	10	15	0.5-50
	N	31	300	8	15	50	1-225
Sandstone and shale	D	163	150	6	8	10	0.5-60
	N	19	300	20	32	64	3-100
Sandstone, limestone and shale	D	31	191	5	10	20	2-50
	N	7	305	-	93	-	10-300
Carbonate rock and shale	D	63	110	6	12	20	2-100
	N	22	224	23	38	49	20-184
Carbonate rock	D	28	165	10	20	30	3-150
	N	14	280	65	160	383	24-900

Notes:
(1) D = Domestic, N = Nondomestic
(2) Feet below ground surface
(3) Percent of wells that have values less than or equal to the value shown
Reference: Williams, 1987

Table 2.3-17— Computed Water Budget Components for Selected Drainage Basins in the North Branch Susquehanna River Basin, Pennsylvania

Watershed	Period of Data	Water Budget Components (in/yr)				Source of Data
		Precipitation (P)	Surface Runoff (R_s)	Groundwater Discharge (R_g)	Evapotranspiration (ET)	
Towanda Creek Basin	1961-1980	35.10 (26.21-44.47)	7.82 (1.98-16.44)	10.34 (5.05-16.26)	16.94 (10.71-24.28)	Taylor, 1984
Wapwallopen Creek Basin	1961-1980	43.87 (32.04-64.48)	5.94 (3.69-11.77)	14.20 (6.60-21.81)	23.73 (16.57-41.85)	Taylor, 1984
Tunkhannock Creek Basin	1961-1980	42.69 (34.41-52.74)	7.35 (2.14-11.28)	11.98 (5.65-18.43)	23.36 (16.68-28.03)	Taylor, 1984
East Branch Chillisquaque Creek	1963-1966	33.3	11.4(1)		21.9	Williams, 1987
East Branch Chillisquaque Creek	1972-1975	50.3	27.1(1)		22.8	Williams, 1987
Fishing Creek	1963-1966	33.3	17.4(2)		15.9	Williams, 1987
Fishing Creek	1972-1975	50.3	31.9(2)		18.4	Williams, 1987

Notes:
(1) Number represents total runoff (surface water and groundwater combined). Groundwater is approximately 44% of the total runoff.
(2) Number represents total runoff (surface water and groundwater combined). Groundwater is approximately 63% of the total runoff.

Table 2.3-18— BBNPP Monitoring Wells and Construction Details

(Page 1 of 2)

Monitoring Well ID	Corresponding Geotechnical Boring	Northing[1] (ft(ft)	Easting[1](ft) (ft)	Ground Surface Elevation [2](ft)(ft)	Top of Casing Elevation [2](ft)(ft)	Boring Depth (ft bgs)	Well Depth(ft bgs)	Screen Diameter & Slot Size (in)	Screen Interval Depth		Screen Interval Elevation[2]		Filterpack Interval Depth	
									Top (ft bgs)	Bottom (ft bgs)	Top (ft)	Bottom (ft)	Top (ft bgs)	Bottom (ft bgs)
Glacial Overburden Wells														
MW301A	NA	339097.64	2405396.73	662.48	664.54	36.5	36.5	4.0 / 0.01	21.5	36.5	640.98	625.98	13.0	21.5
MW302A1	NA	339410.17	2406939.74	665.18	667.41	35.2	35.15	4.0 / 0.01	20.0	35.0	645.18	630.18	17.0	35.15
MW302A2	NA	339410.07	2406925.67	665.25	667.42	35.3	35.34	4.0 / 0.01	20.0	35.0	645.25	630.25	11.0	35.34
MW302A3	NA	339410.16	2406899.92	665.34	667.70	35.7	35.71	4.0 / 0.01	20.7	35.7	644.64	629.64	11.0	35.71
MW302A4	NA	339495.31	2406939.42	665.56	667.70	39.0	37.6	4.0 / 0.01	22.5	37.5	643.06	628.06	12.0	39.0
MW303A	NA	341504.72	2405505.31	734.13	736.18	28.0	28.0	4.0 / 0.01	18.0	28.0	716.13	706.13	12.0	28.0
MW304A	NA	340228.16	2408455.38	680.61	682.65	37.0	37.0	4.0 / 0.01	17.0	37.0	663.61	643.61	17.0	37.0
MW305A1	NA	341896.43	2407090.85	715.30	717.35	43.0	43.0	4.0 / 0.01	23.0	43.0	692.30	672.30	18.0	43.0
MW305A2	NA	341888.61	2407096.81	714.64	717.01	83.0	76.0	2.0 / 0.01	56.0	76.0	658.64	638.64	51.0	76.0
MW306A	NA	338899.63	2404351.67	662.46	664.67	38.0	38.0	4.0 / 0.01	23.0	38.0	639.46	624.46	11.0	38.0
MW307A	NA	337632.51	2407085.99	688.60	690.96	37.0	37.0	4.0 / 0.01	22.0	37.0	666.60	651.60	12.0	37.0
MW308A	NA	338355.50	2405979.80	661.38	663.42	33.5	33.5	4.0 / 0.01	13.5	33.5	647.88	627.88	12.0	33.5
MW309A	NA	338707.94	2408989.20	673.33	675.62	20.9	20.9	4.0 / 0.01	10.8	20.8	652.53	662.53	6.0	20.9
MW310A	NA	339453.78	2405156.30	674.48	676.73	21.0	19.2	4.0 / 0.01	9.2	19.2	665.28	655.28	8.0	19.2
MW410	NA	339662.11	2406412.50	679.04	680.04	39.00	36.00	4.0/ 0.02	21.00	36.00	658.04	643.04	19.00	39.00
Shallow Bedrock Wells														
MW301B1	NA	339098.94	2405384.28	662.40	664.39	162.0	160.0	4.0 / 0.01	130.0	160.0	532.40	502.40	105.0	162.0
MW301B2	B303	339142.99	2405338.53	664.18	666.48	151.0	150.0	1.5 / 0.01	130.0	150.0	534.18	514.18	126.0	151.0
MW301B3	B308	339069.30	2405288.63	662.41	664.61	100.0	100.0	1.5 / 0.01	80.0	100.0	582.14	562.41	75.0	100.0
MW301B4	B310	338987.79	2405444.97	658.46	660.51	102.0	100.0	1.5 / 0.01	80.0	100.0	578.46	558.46	74.0	100.0
MW303B	NA	341504.61	2405493.42	733.53	735.65	97.0	97.0	2.0 / 0.01	77.0	97.0	656.53	636.53	65.0	97.0
MW304B	NA	340245.01	2408443.45	681.27	683.09	181.0	181.0	2.0 / 0.01	161.0	181.0	520.27	500.27	151.0	181.0
MW305B	NA	341880.51	2407108.09	714.10	716.19	140.0	140.0	2.0 / 0.01	120.0	140.0	574.10	594.10	110.0	140.0
MW308B	NA	338356.71	2405969.62	661.00	663.36	79.4	79.4	2.0 / 0.01	59.0	79.0	602.00	582.00	54.4	79.4
MW309B	NA	338708.71	2408999.09	673.16	675.31	160.0	160.0	2.0 / 0.01	140.0	160.0	533.16	513.16	129.0	160.0
MW310B	B326	339454.71	2405176.41	675.31	678.04	90.4	90.0	2.0 / 0.01	70.0	90.0	605.31	585.31	55.0	90.4
MW311B	B325	339328.29	2405252.94	668.90	671.29	100.5	100.0	1.5 / 0.01	80.0	100.0	588.90	568.90	75.0	100.0
MW312B	B315	338820.62	2405297.70	656.90	659.00	100.0	100.0	1.5 / 0.01	85.0	100.0	571.90	556.90	75.0	100.0

Table 2.3-18— BBNPP Monitoring Wells and Construction Details

(Page 2 of 2)

Monitoring Well ID	Corresponding Geotechnical Boring	Northing[1] (ft(ft)	Easting[1](ft) (ft)	Ground Surface Elevation [2](ft)(ft)	Top of Casing Elevation [2](ft)(ft)	Boring Depth (ft bgs)	Well Depth(ft bgs)	Screen Diameter & Slot Size (in)	Screen Interval Depth		Screen Interval Elevation[2]		Filterpack Interval Depth	
									Top (ft bgs)	Bottom (ft bgs)	Top (ft)	Bottom (ft)	Top (ft bgs)	Bottom (ft bgs)
MW313B	B323	338927.92	2405815.58	657.68	659.97	100.0	100.0	1.5 / 0.01	80.0	100.0	577.68	557.68	70.0	100.0
MW313C[3]	B322	338922.54	2405754.79	657.24	659.42	200.0	200.0	1.0 / 0.01	110.0	130.0	547.24	527.24	100.0	130.0
MW315B	B338	340738.30	2406234.46	720.08	719.82	70.0	70.0	1.5 / 0.01	50.0	70.0	670.08	650.08	45.0	70.0
MW316B	B340	340298.18	2406433.93	702.37	702.08	80.0	80.0	1.0 / 0.01	60.0	80.0	642.37	622.37	55.0	80.0
MW317B	B333	339772.49	2406401.48	681.17	683.30	100.0	70.0	1.0 / 0.01	50.0	70.0	631.17	611.17	45.0	70.0
MW318B	B335	340493.18	2405516.32	801.32	803.79	70.0	70.0	1.0 / 0.01	50.0	70.0	751.32	731.32	40.0	70.0
MW319B	B337	340239.46	2405528.14	790.57	793.04	100.0	100.0	1.0 / 0.01	80.0	100.0	710.57	690.57	60.0	100.0
MW401	NA	340753.25	2405097.68	780.44	782.20	252.10	150.20	4.0/ 0.04	120.00	150.00	660.44	630.44	116.00	153.90
MW402	NA	340870.66	2405855.94	785.24	787.51	151.50	117.20	4.0/ 0.04	87.00	117.00	698.24	668.24	82.00	122.00
MW403	NA	340579.28	2405542.37	801.97	804.23	167.00	167.00	4.0/ 0.04	137.00	167.00	664.97	634.97	132.00	167.00
MW404	NA	340170.50	2404985.30	735.42	738.02	95.00	95.00	4.0/ 0.04	65.00	95.00	670.42	640.42	60.50	95.00
MW405	NA	339970.47	2404646.35	693.84	696.52	76.00	75.85	4.0/ 0.04	45.45	75.45	648.39	618.39	40.00	76.00
MW406	NA	339710.35	2404789.81	712.51	715.04	90.00	90.00	4.0/ 0.04	60.00	90.00	652.51	622.51	55.00	90.00
MW407	NA	339784.93	2405144.25	734.76	737.49	115.00	115.00	4.0/ 0.04	85.00	115.00	649.76	619.76	83.00	115.00
MW408	NA	340342.30	2405819.88	767.00	768.96	238.30	130.20	4.0/ 0.04	100.00	130.00	667.00	637.00	96.10	134.30
MW409	NA	339760.65	2405905.35	720.79	723.57	100.00	100.00	4.0/ 0.04	70.00	100.00	650.79	620.79	65.00	100.00
Deep Bedrock Wells														
MW301C	B301	339151.79	2405430.689	666.38	668.79	400.0	400.0	1.0 /0.01	370.0	400.00	296.38	266.378	375.0	400
MW302B[4]	NA	339409.88	2406954.177	665.29	667.42	215.0	215.0	2.0 / 0.01	195.0	215.0	470.29	450.29	165.0	215.0
MW303C	NA	341503.54	2405483.363	732.94	734.98	250.0	250.0	2.0 / 0.01	230.0	250.0	502.94	482.94	181.0	250.0
MW304C	NA	340236.49	2408449.592	680.57	682.44	600.0	400.0	2.0 / 0.01	360.0	400.0	320.57	280.57	340.0	400.0
MW306C	NA	338889.03	2404353.483	662.47	664.70	335.0	330.0	2.0 / 0.01	280.0	330.0	382.47	332.47	270.0	330.0
MW307B[4]	NA	337632.75	2407096.694	688.33	690.85	270.0	270.0	2.0 / 0.01	250.0	270.0	438.33	418.33	200.0	270.0
MW310C	B327	339452.09	2405233.062	675.38	678.35	201.0	199.5	2.0 / 0.01	169.5	199.5	505.88	475.88	159.5	199.5
MW311C	B306	339313.21	240.00	669.07	671.18	203.0	203.0	1.5 / 0.01	183.0	203.0	486.07	466.07	178.0	203.0

(1) Horizontal Datum NAD83 State Plane feet

(2) Vertical Datum NAVD88 feet

(3) Well MW313C grouped with Shallow Bedrock Wells because well screen is only 130 ft bgs.

(4) Wells MW302B and MW307B were grouped with Deep Bedrock Wells because water-producing zones were not detected in shallow bedrock and, as a result, the wells were installed deeper than originally planned.

Table 2.3-19— Monthly Groundwater Elevation Measurements, 2007-2008, BBNPP

(Page 1 of 3)

Monitoring Well ID	Elevation (ft)[1]														
	Ground Surface	Top of Riser Pipe Reference Point	November 1, 2007	November 29, 2007	December 13, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008	October 1-2, 2008
Glacial Outwash Wells															
MW301A	662.48	664.54	655.71	657.66	657.53	657.68	658.76	659.33	658.08	657.38	656.86	655.79	655.67	655.03	654.58
MW302A 1	665.18	667.41	658.38	660.74	660.81	661.57	662.95	663.85	662.09	660.87	660.12	658.56	658.36	657.86	657.65
MW302A 2	665.25	667.42	658.38	660.75	660.82	661.58	662.95	663.84	662.10	660.85	660.12	658.56	658.36	657.86	657.66
MW302A 3	665.34	667.70	658.37	660.73	660.80	661.53	662.91	663.79	662.03	660.80	660.07	661.51	658.31	657.81	657.59
MW302A 4	665.56	667.70	658.37	660.75	660.80	661.57	662.97	663.86	661.71	660.86	660.13	658.57	658.37	657.87	657.67
MW303A	734.13	736.18	713.33	714.62	714.18	714.32	715.96	717.11	714.82	714.93	714.41	713.54	713.79	713.13	712.64
MW304A	680.61	682.65	668.74	670.32	670.59	671.05	671.73	672.16	671.41	670.92	670.08	669.07	669.00	668.27	668.53
MW305A 1	715.30	717.35	704.70	705.94	706.11	706.86	708.43	708.01	706.96	706.75	705.96	704.86	704.81	704.30	704.60
MW305A 2	714.64	717.01	704.63	705.76	705.90	706.44	707.65	707.23	706.41	706.20	705.48	704.58	704.58	704.05	704.39
MW306A	662.46	664.67	655.09	656.66	656.22	655.93	656.85	657.07	655.92	655.67	655.10	654.41	654.45	653.83	654.29
MW307A	688.60	690.96	684.75	686.10	686.01	684.65	685.55	685.82	685.83	686.50	684.22	684.04	683.34	681.80	683.23
MW308A	661.38	663.42	655.35	656.79	656.52	656.21	656.93	657.02	656.40	656.31	655.63	655.03	654.96	654.12	654.70
MW309A	673.33	675.62	667.23	669.84	669.62	669.25	670.57	670.57	669.25	669.01	667.19	664.26	665.08	664.64	664.89
MW310A	674.48	676.73	657.40	659.51	659.18	659.25	660.64	661.09	659.37	658.37	657.90	656.89	656.76	656.40	657.40
Shallow Bedrock Wells															
MW301B1	662.40	664.39	657.47	659.77	659.44	659.37	660.43	660.62	659.29	658.93	658.36	657.50	657.46	656.93	657.38
MW301B2	664.18	666.48	656.13	657.71	657.58	660.69	658.76	659.28	657.92	657.38	656.86	655.83	655.70	655.05	655.29

Table 2.3-19— Monthly Groundwater Elevation Measurements, 2007-2008, BBNPP

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Monitoring Well ID	Elevation (ft)[1]												
	Ground Surface	Top of Riser Pipe Reference Point	November 1, 2007	November 29, 2007	December 13, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008	October 1-2, 2008
MW301B3	662.41	664.61	654.20	657.40	657.23	657.22	658.22	658.64	657.45	657.04	656.52	658.63	655.51	654.86	655.18
MW301B4	658.46	660.51	649.70	657.84	657.59	657.80	659.16	658.98	657.82	657.37	656.76	655.85	655.78	655.10	655.46
MW303B	733.53	735.65	717.15	720.17	718.55	717.64	720.11	720.27	717.89	718.67	716.81	715.68	716.09	715.16	714.76
MW304B	681.27	683.09	668.61	670.07	670.24	670.60	670.95	671.56	670.93	670.49	669.66	668.49	669.27	668.75	668.32
MW305B	714.10	716.19	704.62	705.68	705.82	706.35	707.54	707.09	706.30	706.12	705.40	704.55	704.52	704.00	704.36
MW308B	661.00	663.36	594.86	596.91	597.79	600.48	594.13	588.69	589.96	587.38	588.51	590.84	587.64	588.78	590.03
MW309B	673.16	675.31	665.56	667.47	667.16	666.61	667.15	667.33	666.57	666.10	664.98	663.87	664.52	663.17	663.61
MW310B	675.31	678.04	661.69	664.23	664.03	664.81	666.33	666.24	664.71	664.36	663.75	662.82	662.89	662.57	662.85
MW311B	668.90	671.29	656.95	659.58	659.31	659.47	660.75	661.17	659.56	658.68	658.16	656.89	656.71	656.10	656.08
MW312B	656.90	659.00	650.12	656.60	656.47	656.99	657.70	658.20	656.70	656.39	655.83	655.00	654.98	654.34	654.80
MW313B	657.68	659.97	655.82	657.77	657.63	658.24	659.32	659.97	657.99	657.61	656.87	655.93	655.81	655.07	655.37
MW313C	657.24	659.42	NA	657.87	658.77	658.24	657.76	658.01	657.84	657.44	656.76	655.91	655.80	655.12	655.48
MW315B	720.09	719.82	NA	717.67	717.65	718.67	719.27	719.79	718.05	717.75	717.09	716.06	715.98	715.65	715.22
MW316B	702.37	702.08	NA	692.24	692.10	693.54	694.72	693.78	693.12	694.27	693.21	691.36	691.31	690.65	690.58
MW317B	681.17	683.30	NA	660.06	660.10	660.78	662.07	662.91	661.20	659.97	659.40	657.88	657.70	657.15	656.94
MW318B	801.32	803.79	NA	750.22	750.28	759.15	761.39	761.04	758.43	758.61	757.18	754.29	755.57	751.19	750.91
MW319B	790.57	793.04	NA	705.90	709.38	719.19	722.66	721.71	718.85	718.27	716.62	713.52	713.19	712.02	710.71
Deep Bedrock Wells															
MW301C[2]	666.38	668.79	(2)	(2)	(2)	(2)	(2)	(2)	(2)	662.01	664.76	663.97	663.75	663.38	663.49
MW302B[3,4]	665.29	667.42	666.68	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
MW303C	732.94	734.98	703.90	706.34	705.08	704.18	705.71	704.70	702.00	701.34	699.76	698.08	699.12	698.72	698.22

Table 2.3-19— Monthly Groundwater Elevation Measurements, 2007-2008, BBNPP

(Page 3 of 3)

Monitoring Well ID	Elevation (ft)[1]														
	Ground Surface	Top of Riser Pipe Reference Point	November 1, 2007	November 29, 2007	December 13, 2007	January 26, 2008	February 25, 2008	March 24, 2008	April 14, 2008	May 20, 2008	June 9, 2008	July 23, 2008	August 12, 2008	September 4, 2008	October 1-2, 2008
MW304C	680.57	682.44	NA	666.97	668.69	670.43	670.72	671.14	670.59	670.43	669.87	668.63	667.93	667.25	668.46
MW306C	662.47	664.70	655.70	657.30	656.90	656.79	657.72	657.82	656.69	657.15	657.23	656.48	656.48	656.06	656.34
MW307B[3]	688.33	690.85	611.55	618.73	621.15	626.86	635.13	637.52	626.94	622.27	620.23	612.25	612.33	610.95	611.32
[4]	675.38	678.35	NA	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
MW311C1*	669.07	671.18	NR	523.54	524.84	528.81	531.51	534.15	535.98	539.27	541.08	545.07	NR	549.10	551.58

(1) Vertical datum NAVD88 feet
(2) Monitoring well MW301C was installed on May 20, 2008; water level monitoring was not performed prior to this date.
(3) Monitoring wells MW302B and MW307B were drilled deeper than originally planned in order to intersect a water-bearing zone. These wells are therefore classified as Deep Bedrock wells because their screens are deeper than 175 ft bgs.
(4) Flowing artesian groundwater conditions encountered. Groundwater elevation was set equal to the top of the PVC riser pipe (reference point).
NA = Not Applicable
NR = Not Recorded
* = Groundwater elevations are considered anomalous. Data are not used to construct potentiometric contours (when applicable).

Table 2.3-20— Monthly Groundwater Elevation Measurements, BBNPP, 2010-2011

(Page 1 of 3)

Monitoring Well ID	Elevation (ft msl) [1]		Groundwater Elevation (ft) [1]											
	Ground Surface	Top of Riser Reference Point	May 6-7, 2010	May 20, 2010	June 29, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 24, 2011	December 14, 2010	January 13, 2011	February 22, 2011	March 21, 2011	April 20, 2011
Glacial Outwash Wells															
MW301A	662.48	664.54	656.81	NM	NM	654.77	654.37	653.90	654.98	655.36	656.63	655.82	656.63	659.21	660.36
MW302A1	665.18	667.41	660.24	NM	658.47	657.67	657.15	656.86	657.56	657.97	659.61	658.82	659.32	663.73	665.04
MW302A2	665.25	667.42	660.22	NM	658.44	657.65	657.11	656.84	657.53	657.95	659.58	658.79	659.29	663.69	665.01
MW302A3	665.34	667.70	660.14	NM	658.38	657.58	657.06	656.77	657.46	657.88	659.50	658.72	659.22	663.61	664.94
MW302A4	665.56	667.70	660.27	NM	658.49	657.70	657.17	656.89	657.58	658.00	659.57	658.84	659.33	663.74	665.07
MW303A	734.13	736.18	713.99	NM	713.22	712.68	712.46	712.12	713.76	714.02	715.07	713.82	715.34	716.41	721.17
MW304A	680.61	682.65	670.45	NM	668.92	668.16	667.75	667.16	668.18	668.51	669.50	669.13	669.81	671.98	672.81
MW305A1	715.30	717.35	706.02	NM	704.50	704.02	703.73	703.29	704.20	704.40	705.26	704.78	705.80	708.39	710.33
MW305A2	714.64	717.01	705.57	NM	704.24	703.76	703.57	703.15	704.05	704.23	705.00	704.54	705.45	707.40	708.89
MW306A	662.46	664.67	655.05	NM	653.98	653.59	653.48	653.06	654.28	654.65	655.73	654.57	655.65	657.41	658.37
MW307A	688.60	690.96	684.69	NM	682.22	680.55	679.40	678.72	683.01	684.58	685.34	682.81	685.48	685.19	686.37
MW308A	661.38	663.42	655.69	NM	654.45	653.88	653.70	653.13	654.60	655.00	656.02	655.08	656.04	657.19	658.19
MW309A	673.33	675.62	667.44	NM	665.33	664.47	664.00	662.13	665.62	666.70	669.12	667.37	669.53	671.14	672.31
MW310A	674.48	676.73	657.83	NM	NM	655.86	655.57	655.54	655.73	656.84	658.20	657.21	658.50	661.05	662.65
MW410	679.04	680.04	NM	658.91	657.55	656.58	655.95	655.66	656.46	656.91	658.69	657.93	658.44	662.44	663.91
Shallow Bedrock Wells															
MW301B1	662.40	664.39	659.05	NM	654.94	656.99	656.72	656.30	657.48	657.91	659.23	658.07	659.30	661.35	662.78
MW301B2	664.18	666.48	656.83	NM	655.50	654.78	654.42	653.89	654.98	655.36	656.62	655.79	656.60	659.18	660.42
MW301B3	662.41	664.61	656.38	NM	655.16	654.58	654.28	653.79	654.88	655.23	656.39	655.56	656.38	658.62	659.76
MW301B4	658.46	660.51	656.90	NM	NM	654.94	654.66	654.16	655.37	655.76	656.99	656.09	656.98	658.99	660.01
MW303B	733.53	735.65	717.48	NM	715.85	715.28	715.07	714.54	716.81	717.67	719.23	716.57	720.19	720.64	724.03
MW304B	681.27	683.09	669.58	NM	668.55	667.48	667.42	666.77	668.05	668.37	669.26	668.59	669.62	671.41	672.29
MW305B	714.10	716.19	705.48	NM	704.20	703.71	703.55	703.15	704.05	704.19	704.85	704.47	705.42	707.21	708.90

Table 2.3-20— Monthly Groundwater Elevation Measurements, BBNPP, 2010-2011

(Page 2 of 3)

Monitoring Well ID	Elevation (ft msl) [1]		Groundwater Elevation (ft) [1]											
	Ground Surface	Top of Riser Reference Point	May 6-7, 2010	May 20, 2010	June 29, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 24, 2011	December 14, 2010	January 13, 2011	February 22, 2011	March 21, 2011	April 20, 2011
MW308B*	661.00	663.36	606.77	NM	607.24	610.66	611.96	612.84	614.26	615.85	616.74	617.89	619.42	620.54	621.66
MW309B	673.16	675.31	665.17	NM	663.52	662.79	662.54	661.84	664.09	664.25	665.81	664.29	665.25	666.28	667.28
MW310B	675.31	678.04	668.54	NM	667.17	666.40	665.96	665.61	666.68	667.25	669.01	667.94	669.63	671.72	673.84
MW311B	668.90	671.29	658.25	NM	NM	656.02	655.58	655.24	656.03	656.40	658.06	657.18	658.18	661.24	662.79
MW312B	656.90	659.00	655.77	NM	654.65	654.12	653.89	653.36	654.56	654.95	655.94	655.11	655.94	657.45	658.35
MW313B	657.68	659.97	656.89	NM	655.55	654.84	654.49	654.01	655.18	655.59	656.87	656.01	656.83	659.10	(2)
MW313C	657.24	659.42	656.84	NM	655.54	654.84	654.53	654.03	655.14	655.60	657.01	655.91	656.92	658.82	(2)
MW315B	720.08	719.82	717.15	NM	715.42	714.83	714.37	714.02	714.31	714.61	716.33	716.24	717.22	719.78	719.39
MW316B	702.37	702.08	696.68	NM	692.84	691.55	690.62	690.07	691.68	692.12	695.45	694.67	696.54	699.20	699.62
MW317B	681.17	683.30	659.47	NM	657.79	656.92	656.37	656.08	656.83	657.23	658.91	658.17	658.66	662.63	664.06
MW318B*	801.32	803.79	757.47	NM	754.66	751.35	751.07	750.64	754.74	755.02	760.41	756.36	763.04	761.25	764.51
MW319B*	790.57	793.04	715.06	NM	709.51	707.11	705.54	704.48	704.24	704.81	712.16	711.21	715.26	720.54	724.11
MW401	780.44	782.20	NM	696.70	693.78	692.47	691.58	691.05	691.54	692.61	694.55	694.76	694.87	700.10	702.22
MW402	785.24	787.51	NM	720.59	719.54	718.79	718.29	717.96	719.72	720.49	723.02	721.11	724.30	724.74	726.40
MW403	801.97	804.23	NM	700.27	699.08	696.65	695.64	694.74	696.25	696.85	699.80	698.56	700.94	703.52	705.26
MW404	735.42	738.02	NM	700.16	696.92	695.55	694.70	693.96	695.89	696.93	700.75	699.35	702.62	705.30	709.46
MW405	693.84	696.52	NM	680.51	680.08	679.99	680.08	679.49	680.30	680.67	681.84	680.77	682.34	682.16	682.99
MW406	712.51	715.04	NM	669.70	668.99	668.36	668.09	667.79	668.98	669.64	671.46	670.47	672.25	674.08	676.33
MW407	734.76	737.49	NM	697.34	693.99	692.59	691.81	691.14	692.84	693.74	696.90	695.66	698.47	700.79	704.40
MW408	767.00	768.96	NM	705.86	703.68	702.25	701.18	700.36	700.99	701.82	705.30	704.96	707.05	709.89	712.03
MW409	720.79	723.57	NM	696.92	693.64	692.23	691.40	690.73	692.47	693.31	696.32	695.04	697.79	699.93	703.30
Deep Bedrock Wells															
MW301C	666.38	668.79	667.28	NM	665.47	664.49	664.06	663.75	664.84	665.36	666.99	666.17	666.79	(2)	(2)
MW302B	665.29	667.42	666.95	NM	665.19	664.42	664.16	663.52	665.48	666.12	667.10	665.52	667.22	(2)	(2)

Table 2.3-20— Monthly Groundwater Elevation Measurements, BBNPP, 2010-2011

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Monitoring Well ID	Elevation (ft msl) [1]		Groundwater Elevation (ft) [1]											
	Ground Surface	Top of Riser Reference Point	May 6-7, 2010	May 20, 2010	June 29, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 24, 2011	December 14, 2010	January 13, 2011	February 22, 2011	March 21, 2011	April 20, 2011
MW303C	732.94	734.98	698.39	NM	698.59	697.65	697.74	697.35	698.87	699.61	700.98	699.33	701.39	703.19	705.22
MW304C	680.57	682.44	670.45	NM	669.26	668.23	667.82	667.54	668.94	669.17	670.09	669.64	670.12	671.94	672.26
MW306C	662.47	664.70	657.42	NM	656.40	655.84	655.60	655.26	656.54	656.96	657.95	656.95	657.55	659.51	659.91
MW307B	688.33	690.85	625.42	NM	616.57	613.54	611.69	610.89	613.45	614.31	620.25	618.54	618.69	644.40	641.84
MW310C	675.38	678.35	(2)	NM	(2)	(2)	(2)	683.06	(2)	684.53	678.37	NA	NA	NM	(2)
MW311C1*	669.07	671.18	597.64	NM	600.54	601.99	603.44	604.45	606.11	608.92	611.42	612.95	614.90	616.25	617.67

(1) Vertical datum NAVD88 feet
(2) Flowing artesian groundwater conditions encountered. Groundwater elevation was set equal to the top of PVC riser pipe (reference point).
NM = Not measured
NA = Groundwater elevation is not available - groundwater frozen at top of PVC riser pipe
* = Groundwater elevations are considered to be anomalous. Data are not used to construct potentiometric contours (when applicable)

Table 2.3-21— Monthly Surface Water Elevation Measurements, 2007-2008, BBNPP

Gauging Station ID	Elevation (ft)												
	Surveyed Reference Point	November 1, 2007	November 29, 2007	December 13, 2007	January 28, 2008	February 29, 2008	March 25, 2008	April 15, 2008	May 21, 2008	June 10, 2008	July 23, 2008	August 12, 2008	September 4, 2008
Stream Gauging Station													
G1	670.97	663.30	662.20	659.39	659.39	662.09	662.30	662.28	662.24	662.24	661.98	662.04	661.85
G2	656.81	NM	647.25	647.21	646.57	646.98	647.00	646.18	646.89	646.24	646.53	646.38	646.04
G3	729.20	NM	722.50	722.45	722.47	722.49	719.54	722.45	722.60	722.45	722.45	722.42	(1)
G5	608.10	601.57	NM	601.70	601.77	601.95	601.90	601.85	601.77	601.66	604.75	601.80	(1)
G10	529.77	NM	NM	518.39	520.77	521.02	NM	518.20	518.35	518.27	518.27	518.25	518.16
G12	661.25	NM	NM	NM	NM	NM	638.82	628.62	638.71	638.23	638.88	638.36	638.08
G13	649.12	NM	NM	NM	NM	NM	NM	658.46	658.53	658.31	659.29	658.39	658.29
Pond Gauging Station													
G6	714.27	711.97	711.77	713.07	713.29	713.47	713.79	713.41	713.03	712.71	712.14	712.05	711.65
G7	687.52	685.04	685.00	684.93	684.58	684.52	684.66	685.12	685.36	685.30	685.17	685.48	684.62
G8	656.62	653.86	654.16	654.31	654.04	653.41	654.30	654.54	654.72	654.72	653.41	654.12	653.90
G9	667.75	665.48	666.03	666.04	666.02	666.55	666.63	666.45	666.47	666.19	665.85	665.87	665.56

Vertical datum NAVD88
(1) dry conditions, no measurement
NM = no measurement

Table 2.3-22— Monthly Surface Water Elevation Measurements 2010-2011, BBNPP

Gauging Station ID	Elevation (ft)											
	Surveyed Reference Point	June 30, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 23-24, 2010	December 14, 2010	January 12, 2011	February 22, 2011	March 21, 2011	April 20, 2011
Stream Gauging Station												
G1	670.97	661.76	661.72	661.75	661.69	662.18	662.10	662.17	662.12	662.29	662.52	662.77
G2	656.81	646.01	646.04	646.11	645.92	646.42	646.55	647.31	646.39	647.22	647.64	647.86
G3	729.20	722.53	722.45	722.50	(1)	722.51	722.49	722.65	722.49	722.64	722.71	722.82
G5	608.10	601.65	601.82	601.62	NM	601.75	601.65	602.00	601.87	601.90	602.20	602.09
G10	529.77	518.32	518.47	518.52	518.37	518.54	518.48	518.56	518.69	518.61	518.46	518.37
G12	661.25	NM	(1)	NM	NM	NM	NM	NM	NM	NM	NM	NM
G13	649.12	638.01	637.99	638.02	637.94	638.27	638.34	638.59	638.26	638.88	639.27	639.44
Pond Gauging Station												
G6	714.27	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
G7	687.52	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
G8	656.62	NM	(1)	654.17	(2)	654.26	654.36	654.41	654.53	654.46	654.64	654.88
G9	667.75	NM	665.85	665.83	665.55	665.92	666.95	666.53	666.31	666.67	667.07	667.33

Vertical datum NAVD88
(1) dry conditions, no measurement
(2) water level below bottom of gauge, no measurement
(3) gauge has been removed
(4) pond has been drained
NM = no measurement taken

Table 2.3-23— Horizontal Hydraulic Gradients, 2007-2008

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Groundwater Flow Pathline	Pathline Distance (ft)	Date	Head Loss Along Flow Line (ft)	Horizontal Gradient	Horizontal Hydraulic Conductivity (ft/day)(1)	Effective Porosity (range when applicable) [2][3]		Approximate Linear Groundwater Velocity (ft/day) (range when applicable)	
Glacial Outwash Aquifer									
G01	1665.00	Nov. 2007	44.62	2.68E-02	1.86E+02	0.322		1.55E+01	
	1835.00	Jan. 2008	39.32	2.14E-02		0.322		1.24E+01	
	1835.00	Mar. 2008	47.11	2.57E-02		0.322		1.48E+01	
	1900.00	July 2008	33.54	1.77E-02		0.322		1.02E+01	
G02	665.00	Nov. 2007	5.35	8.05E-03		0.322		4.65E+00	
	600.00	Jan. 2008	5.21	8.68E-03		0.322		5.02E+00	
	665.00	Mar. 2008	6.79	1.02E-02		0.322		5.90E+00	
	700.00	July 2008	3.48	4.97E-03		0.322		2.87E+00	
G03	2300.00	Nov. 2007	35.94	1.56E-02		0.322		9.03E+00	
	2335.00	Jan. 2008	36.86	1.58E-02		0.322		9.13E+00	
	2465.00	Mar. 2008	38.01	1.54E-02		0.322		8.91E+00	
	2035.00	July 2008	39.86	1.96E-02		0.322		1.13E+01	
Shallow Bedrock Aquifer						Low	High	Low	High
SB1	1445.00	Nov. 2007	50.00	3.46E-02	1.50E+00	0.01	0.10	5.20E-01	5.20E+00
	1605.00	Jan. 2008	50.00	3.12E-02		0.01	0.10	4.68E-01	4.68E+00
	1000.00	Mar. 2008	40.00	4.00E-02		0.01	0.10	6.01E-01	6.01E+00
	1840.00	July 2008	60.00	3.26E-02		0.01	0.10	4.90E-01	4.90E+00
SB2	1500.00	Nov. 2007	60.00	4.00E-02		0.01	0.10	6.01E-01	6.01E+00
	1315.00	Jan. 2008	60.00	4.56E-02		0.01	0.10	6.85E-01	6.85E+00
	1315.00	Mar. 2008	60.00	4.56E-02		0.01	0.10	6.85E-01	6.85E+00
	1350.00	July 2008	60.00	4.44E-02		0.01	0.10	6.68E-01	6.68E+00
SB3	2870.00	Nov. 2007	60.00	2.09E-02		0.01	0.10	3.14E-01	3.14E+00
	3050.00	Jan. 2008	60.00	1.97E-02		0.01	0.10	2.95E-01	2.95E+00
	2950.00	Mar. 2008	60.00	2.03E-02		0.01	0.10	3.06E-01	3.06E+00
	2950.00	July 2008	60.00	2.03E-02		0.01	0.10	3.06E-01	3.06E+00
Deep Bedrock Aquifer							High	Low	High

Table 2.3-23— Horizontal Hydraulic Gradients, 2007-2008

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DB1	3290.00	Nov. 2007	60.00	1.82E-02	3.35E-01	0.01	0.10	6.11E-02	6.11E-01
	1550.00	Jan. 2008	25.00	1.61E-02		0.01	0.10	5.40E-02	5.40E-01
	1525.00	Mar. 2008	25.00	1.64E-02		0.01	0.10	5.49E-02	5.49E-01
	1025.00	July 2008	15.00	1.46E-02		0.01	0.10	4.90E-02	4.90E-01
DB2	3895.00	Nov. 2007	85.00	2.18E-02		0.01	0.10	7.31E-02	7.31E-01
	3525.00	Jan. 2008	70.00	1.99E-02		0.01	0.10	6.65E-02	6.65E-01
	3580.00	Mar. 2008	60.00	1.68E-02		0.01	0.10	5.61E-02	5.61E-01
	3290.00	July 2008	80.00	2.43E-02		0.01	0.10	8.15E-02	8.15E-01
DB3	3475.00	Nov. 2007	70.00	2.01E-02		0.01	0.10	6.75E-02	6.75E-01
	3970.00	Jan. 2008	70.00	1.76E-02		0.01	0.10	5.91E-02	5.91E-01
	3950.00	Mar. 2008	60.00	1.52E-02		0.01	0.10	5.09E-02	5.09E-01
	3160.00	July 2008	55.00	1.74E-02		0.01	0.10	5.83E-02	5.83E-01

(1) Presented horizontal hydraulic conductivity estimates are the geometric mean values resulting from pumping tests for the Glacial Outwash and Shallow Bedrock aquifers and slug tests for the Deep Bedrock aquifer.
(2) The effective porosity value for the Glacial Outwash aquifer is based upon pumping test data.
(3) Range of effective porosity values for the Shallow and Deep Bedrock aquifers are based upon literature values (Freeze and Cherry, 1979).

Table 2.3-24— - Horizontal Hydraulic Gradients, 2010-2011

(Page 1 of 2)

Groundwater Flow Pathline	Pathline Distance (ft)	Date	Head Loss Along Flow Line (ft)	Horizontal Gradient	Horizontal Hydraulic Conductivity (ft/day) (1)	Effective Porosity (range when applicable) (3)(4)		Approximate Linear Groundwater Velocity (ft/day) (range when applicable)	
Glacial Outwash Aquifer									
G01	1765.00	June 2010	38.22	2.17E-02	1.86E+02	0.322		1.25E+01	
	1900.00	Sep. 2010	37.12	1.95E-02				1.13E+01	
	1795.00	Dec. 2010	40.07	2.23E-02				1.29E+01	
	1805.00	April 2011	46.17	2.56E-02				1.48E+01	
G02(2)	800.00	June 2010	6.59	8.24E-03				4.76E+00	
	665.00	Sep. 2010	2.13	3.20E-03				1.85E+00	
	650.00	Dec. 2010	3.79	5.83E-03				3.37E+00	
	635.00	April 2011	7.77	1.22E-02				7.07E+00	
G03	2235.00	June 2010	34.50	1.54E-02				8.92E+00	
	2265.00	Sep. 2010	33.29	1.47E-02				8.50E+00	
	2365.00	Dec. 2010	35.26	1.49E-02				8.62E+00	
	2500.00	April 2011	40.33	1.61E-02				9.33E+00	
Shallow Bedrock Aquifer						Low	High	Low	High
SB1	1575.00	June 2010	39.92	2.53E-02	1.50E+00	0.01	0.10	3.81E-01	3.81E+00
	1190.00	Sep. 2010	24.74	2.08E-02				3.12E-01	3.12E+00
	400.00	Dec. 2010	18.91	4.73E-02				7.10E-01	7.10E+00
	400.00	April 2011	27.01	6.75E-02				1.01E+00	1.01E+01
SB2	1210.00	June 2010	70.00	5.79E-02				8.69E-01	8.69E+00
	840.00	Sep. 2010	46.11	5.49E-02				8.25E-01	8.25E+00
	850.00	Dec. 2010	43.13	5.07E-02				7.62E-01	7.62E+00
	900.00	April 2011	50.03	5.56E-02				8.35E-01	8.35E+00
SB3	2215.00	June 2010	70.00	3.16E-02				4.75E-01	4.75E+00
	1450.00	Sep. 2010	70.00	4.83E-02				7.25E-01	7.25E+00
	3420.00	Dec. 2010	80.00	2.34E-02				3.51E-01	3.51E+00
	2810.00	April 2011	80.00	2.85E-02				4.28E-01	4.28E+00
Deep Bedrock Aquifer						Low	High	Low	High
DB1	2430.00	June 2010	38.60	1.59E-02	3.35E-01	0.01	0.10	5.32E-02	5.32E-01
	1255.00	Sep. 2010	39.74	3.17E-02				1.06E-01	1.06E+00
	2545.00	Dec. 2010	42.05	1.65E-02				5.54E-02	5.54E-01
	2170.00	April 2011	40.09	1.85E-02				6.19E-02	6.19E-01
DB2	3430.00	June 2010	75.00	2.19E-02				7.33E-02	7.33E-01
	2760.00	Sep. 2010	80.00	2.90E-02				9.71E-02	9.71E-01
	3550.00	Dec. 2010	70.00	1.97E-02				6.61E-02	6.61E-01
	2690.00	April 2011	50.00	1.86E-02				6.23E-02	6.23E-01
DB3	3920.00	June 2010	75.00	1.91E-02		0.01	0.10	6.41E-02	6.41E-01
	4485.00	Sep. 2010	82.35	1.84E-02				6.15E-02	6.15E-01
	4075.00	Dec. 2010	70.00	1.72E-02				5.75E-02	5.75E-01
	3360.00	April 2011	50.00	1.49E-02				4.99E-02	4.99E-01

Table 2.3-24— - Horizontal Hydraulic Gradients, 2010-2011

(Page 2 of 2)

(1) Surface water elevations were not measured at the Pond G8 gauging station during June and September 2010 due to dry conditions. The present horizontal hydraulic gradient was calculated using the lowest measured value for the Pond G8 water level elevations (653.41 ft NAVD 88, December 2007); therefore, the calculated horizontal hydraulic gradient represents the lowest possible value. True G02 gradients for June and September are expected to be greater in magnitude.
(2) Presented horizontal hydraulic conductivity estimates are the geometric mean values resulting from pumping tests for the Glacial Outwash and Shallow Bedrock aquifers and slug tests for the Deep Bedrock aquifer.
(3) The effective porosity value for the Glacial Outwash Aquifer is based upon pumping test data.
(4) Range of effective porosity values for the Shallow and Deep Bedrock aquifers are based upon literature values (Freeze and Cherry, 1979).

Table 2.3-25— 2007-2008 Vertical Hydraulic Gradients and Flow Directions

(Page 1 of 2)

Well Pair	Date	Gradient A to B	Gradient A to C	Gradient B to C	Gradient A1 to A2	Flow Direction
MW301A - MW301B1	11/29/2007	-0.0182	-----	-----	-----	upward
	1/26/2008	-0.0330	-----	-----	-----	upward
	3/24/2008	-0.0111	-----	-----	-----	upward
	7/23/2008	-0.0147	-----	-----	-----	upward
MW302A1 - MW302B[1,2]	11/29/2007	-----	-0.0376	-----	-----	upward
	1/26/2008	-----	-0.0330	-----	-----	upward
	3/24/2008	-----	-0.0201	-----	-----	upward
	7/23/2008	-----	-0.0499	-----	-----	upward
MW303A - MW303B	11/29/2007	-0.0860	-----	-----	-----	upward
	1/26/2008	-0.0514	-----	-----	-----	upward
	3/24/2008	-0.0490	-----	-----	-----	upward
	7/23/2008	-0.0332	-----	-----	-----	upward
MW303B - MW303C	11/29/2007	-----	-----	0.0900	-----	downward
	1/26/2008	-----	-----	0.0876	-----	downward
	3/24/2008	-----	-----	0.1013	-----	downward
	7/23/2008	-----	-----	0.1145	-----	downward
MW304A - MW304B	11/29/2007	0.0017	-----	-----	-----	downward
	1/26/2008	0.0031	-----	-----	-----	downward
	3/24/2008	0.0042	-----	-----	-----	downward
	7/23/2008	0.0040	-----	-----	-----	downward
MW304B - MW304C	11/29/2007	-----	-----	0.0148	-----	downward
	1/26/2008	-----	-----	0.0008	-----	downward
	3/24/2008	-----	-----	0.0020	-----	downward
	7/23/2008	-----	-----	0.0007	-----	downward
MW305A1 - MW305B	11/29/2007	0.0026	-----	-----	-----	downward
	1/26/2008	0.0153	-----	-----	-----	downward
	3/24/2008	0.0094	-----	-----	-----	downward
	7/23/2008	0.0032	-----	-----	-----	downward
MW305A2 - MW305B	11/29/2007	0.0012	-----	-----	-----	downward
	1/26/2008	0.0014	-----	-----	-----	downward
	3/24/2008	0.0022	-----	-----	-----	downward
	7/23/2008	0.0005	-----	-----	-----	downward
MW306A - MW306C	11/29/2007	-----	-0.0023	-----	-----	upward
	1/26/2008	-----	-0.0031	-----	-----	upward
	3/24/2008	-----	-0.0027	-----	-----	upward
	7/23/2008	-----	-0.0075	-----	-----	upward
MW307A - MW307B[1]	11/29/2007	-----	0.2921	-----	-----	downward
	1/26/2008	-----	0.2506	-----	-----	downward
	3/24/2008	-----	0.2094	-----	-----	downward
	7/23/2008	-----	0.3113	-----	-----	downward
MW308A - MW308B	11/29/2007	1.3143	-----	-----	-----	downward
	1/26/2008	1.2232	-----	-----	-----	downward
	3/24/2008	1.4998	-----	-----	-----	downward
	7/23/2008	1.4089	-----	-----	-----	downward

Table 2.3-25— 2007-2008 Vertical Hydraulic Gradients and Flow Directions

(Page 2 of 2)

Well Pair	Date	Gradient A to B	Gradient A to C	Gradient B to C	Gradient A1 to A2	Flow Direction
MW309A - MW309B	11/29/2007	0.0176	-----	-----	-----	downward
	1/26/2008	0.0196	-----	-----	-----	downward
	3/24/2008	0.0241	-----	-----	-----	downward
	7/23/2008	0.0029	-----	-----	-----	downward
MW310A - MW310B	11/29/2007	-0.0732	-----	-----	-----	upward
	1/26/2008	-0.0862	-----	-----	-----	upward
	3/24/2008	-0.0799	-----	-----	-----	upward
	7/23/2008	-0.0920	-----	-----	-----	upward
MW310B - MW310C (2)	11/29/2007	-----	-----	-----	-----	upward
	1/26/2008	-----	-----	-0.1300	-----	upward
	3/24/2008	-----	-----	-0.1162	-----	upward
	7/23/2008	-----	-----	-0.1491	-----	upward

Notes:
(1) Monitoring wells MW302B and MW307B were drilled deeper than originally planned; as a result, the wells have been reclassified as a Deep Bedrock wells (i.e., "C" wells)
(2) Monitoring wells MW302B and MW307B are artesian with water flowing from the wells. Hydraulic heads for wells MW302B and MW310C were set at the top of riser pipe for purposes of calculating vertical gradients.

Table 2.3-26— Vertical Hydraulic Gradients and Flow DIrections

(Page 1 of 5)

Well Pair	Date	Gradient A to B	Gradient A to C	Gradient B to C	Gradient A1 to A2	Flow Direction		Gradient A to B	Gradient A to C	Gradient B to C	Gradient A1 to A2	Flow Direction
MW301A - MW301B1	5/6/2010 - 5/7/2010	-0.0193	----	----	----	upward	11/24/2010	-0.0220	----	----	----	upward
	6/29/2010	NA	----	----	----	NA	12/14/2010	-0.0224	----	----	----	upward
	7/27/2010	-0.0191	----	----	----	upward	1/13/2011	-0.0194	----	----	----	upward
	8/24/2010	-0.0202	----	----	----	upward	2/22/2011	-0.0230	----	----	----	upward
	9/14/2010	-0.0207	----	----	----	upward	3/21/2011	-0.0184	----	----	----	upward
	10/15/2010	-0.0215	----	----	----	upward	4/20/2011	-0.0208	----	----	----	upward
MW302A1 - MW302B[1]	5/6/2010 - 5/7/2010	----	-0.0378	----	----	upward	11/24/2010	----	-0.0459	----	----	upward
	6/29/2010	----	-0.0379	----	----	upward	12/14/2010	----	-0.0422	----	----	upward
	7/27/2010	----	-0.0381	----	----	upward	1/13/2011	----	-0.0378	----	----	upward
	8/24/2010	----	-0.0395	----	----	upward	2/22/2011	----	-0.0445	----	----	upward
	9/14/2010	----	-0.0375	----	----	upward	3/21/2011	----	-0.0208	----	----	upward
	10/15/2010	----	-0.0446	----	----	upward	4/20/2011	----	-0.0134	----	----	upward
MW303A - MW303B	5/6/2010 - 5/7/2010	-0.0540	----	----	----	upward	11/24/2010	-0.0565	----	----	----	upward
	6/29/2010	-0.0407	----	----	----	upward	12/14/2010	-0.0644	----	----	----	upward
	7/27/2010	-0.0402	----	----	----	upward	1/13/2011	-0.0426	----	----	----	upward
	8/24/2010	-0.0404	----	----	----	upward	2/22/2011	-0.0751	----	----	----	upward
	9/14/2010	-0.0375	----	----	----	upward	3/21/2011	-0.0655	----	----	----	upward
	10/15/2010	-0.0472	----	----	----	upward	4/20/2011	-0.0443	----	----	----	upward

Table 2.3-26— Vertical Hydraulic Gradients and Flow DIrections

(Page 2 of 5)

MW303B - MW303C	5/6/2010 - 5/7/2010	----	----	0.1243	----	downward	11/24/2010	----	----	0.1176	----	downward
	6/29/2010	----	----	0.1124	----	downward	12/14/2010	----	----	0.1188	----	downward
	7/27/2010	----	----	0.1148	----	downward	1/13/2011	----	----	0.1122	----	downward
	8/24/2010	----	----	0.1128	----	downward	2/22/2011	----	----	0.1224	----	downward
	9/14/2010	----	----	0.1119	----	downward	3/21/2011	----	----	0.1136	----	downward
	10/15/2010	----	----	0.1168	----	downward	4/20/2011	----	----	0.1225	----	downward
MW304A - MW304B	5/6/2010 - 5/7/2010	0.0061	----	----	----	downward	11/24/2010	0.0010	----	----	----	downward
	6/29/2010	0.0026	----	----	----	downward	12/14/2010	0.0017	----	----	----	downward
	7/27/2010	0.0047	----	----	----	downward	1/13/2011	0.0038	----	----	----	downward
	8/24/2010	0.0023	----	----	----	downward	2/22/2011	0.0013	----	----	----	downward
	9/14/2010	0.0027	----	----	----	downward	3/21/2011	0.0040	----	----	----	downward
	10/15/2010	0.0009	----	----	----	downward	4/20/2011	0.0036	----	----	----	downward
MW304B - MW304C	5/6/2010 - 5/7/2010	----	----	-0.0041	----	upward	11/24/2010	----	----	-0.0038	----	upward
	6/29/2010	----	----	-0.0034	----	upward	12/14/2010	----	----	-0.0040	----	upward
	7/27/2010	----	----	-0.0036	----	upward	1/13/2011	----	----	-0.0050	----	upward
	8/24/2010	----	----	-0.0019	----	upward	2/22/2011	----	----	-0.0024	----	upward
	9/14/2010	----	----	-0.0037	----	upward	3/21/2011	----	----	-0.0025	----	upward
	10/15/2010	----	----	-0.0042	----	upward	4/20/2011	----	----	0.0001	----	downward

Table 2.3-26— Vertical Hydraulic Gradients and Flow DIrections

(Page 3 of 5)

MW305A1 - MW305B	5/6/2010 - 5/7/2010	0.0055	----	----	----	downward	11/24/2010	0.0021	----	----	----	downward
	6/29/2010	0.0031	----	----	----	downward	12/14/2010	0.0042	----	----	----	downward
	7/27/2010	0.0032	----	----	----	downward	1/13/2011	0.0032	----	----	----	downward
	8/24/2010	0.0018	----	----	----	downward	2/22/2011	0.0039	----	----	----	downward
	9/14/2010	0.0014	----	----	----	downward	3/21/2011	0.0120	----	----	----	downward
	10/15/2010	0.0015	----	----	----	downward	4/20/2011	0.0146	----	----	----	downward
MW305A2 - MW305B	5/6/2010 - 5/7/2010	0.0014	----	----	----	downward	11/24/2010	0.0006	----	----	----	downward
	6/29/2010	0.0006	----	----	----	downward	12/14/2010	0.0023	----	----	----	downward
	7/27/2010	0.0008	----	----	----	downward	1/13/2011	0.0011	----	----	----	downward
	8/24/2010	0.0003	----	----	----	downward	2/22/2011	0.0005	----	----	----	downward
	9/14/2010	0.0000	----	----	----	NG	3/21/2011	0.0029	----	----	----	downward
	10/15/2010	0.0000	----	----	----	NG	4/20/2011	-0.0002	----	----	----	upward
MW306A - MW306C	5/6/2010 - 5/7/2010	----	-0.0086	----	----	upward	11/24/2010	----	-0.0084	----	----	upward
	6/29/2010	----	-0.0088	----	----	upward	12/14/2010	----	-0.0081	----	----	upward
	7/27/2010	----	-0.0082	----	----	upward	1/13/2011	----	-0.0087	----	----	upward
	8/24/2010	----	-0.0077	----	----	upward	2/22/2011	----	-0.0069	----	----	upward
	9/14/2010	----	-0.0080	----	----	upward	3/21/2011	----	-0.0077	----	----	upward
	10/15/2010	----	-0.0082	----	----	upward	4/20/2011	----	-0.0056	----	----	upward

Table 2.3-26— Vertical Hydraulic Gradients and Flow DIrections

(Page 4 of 5)

MW307A - MW307B[1]	5/6/2010 - 5/7/2010	----	0.2568	----	----	downward	11/24/2010	----	0.3045	----	----	downward
	6/29/2010	----	0.2845	----	----	downward	12/14/2010	----	0.2821	----	----	downward
	7/27/2010	----	0.2904	----	----	downward	1/13/2011	----	0.2785	----	----	downward
	8/24/2010	----	0.2934	----	----	downward	2/22/2011	----	0.2894	----	----	downward
	9/14/2010	----	0.2939	----	----	downward	3/21/2011	----	0.1768	----	----	downward
	10/15/2010	----	0.3014	----	----	downward	4/20/2011	----	0.1930	----	----	downward
MW308A - MW308B	5/6/2010 - 5/7/2010	1.0663	----	----	----	downward	11/24/2010	0.8533	----	----	----	downward
	6/29/2010	1.0290	----	----	----	downward	12/14/2010	0.8561	----	----	----	downward
	7/27/2010	0.9420	----	----	----	downward	1/13/2011	0.8106	----	----	----	downward
	8/24/2010	0.9098	----	----	----	downward	2/22/2011	0.7982	----	----	----	downward
	9/14/2010	0.8782	----	----	----	downward	3/21/2011	0.7988	----	----	----	downward
	10/15/2010	0.8793	----	----	----	downward	4/20/2011	0.7962	----	----	----	downward
MW309A - MW309B	5/6/2010 - 5/7/2010	0.0169	----	----	----	downward	11/24/2010	0.0182	----	----	----	downward
	6/29/2010	0.0135	----	----	----	downward	12/14/2010	0.0246	----	----	----	downward
	7/27/2010	0.0125	----	----	----	downward	1/13/2011	0.0229	----	----	----	downward
	8/24/2010	0.0109	----	----	----	downward	2/22/2011	0.0319	----	----	----	downward
	9/14/2010	0.0022	----	----	----	downward	3/21/2011	0.0362	----	----	----	downward
	10/15/2010	0.0114	----	----	----	downward	4/20/2011	0.0374	----	----	----	downward

Table 2.3-26— Vertical Hydraulic Gradients and Flow DIrections

(Page 5 of 5)

MW310A - MW310B	5/6/2010 - 5/7/2010	-0.1648	----	----	----	upward	11/24/2010	-0.1602	----	----	----	upward
	6/29/2010	NA	----	----	----	NA	12/14/2010	-0.1664	----	----	----	upward
	7/27/2010	-0.1622	----	----	----	upward	1/13/2011	-0.1652	----	----	----	upward
	8/24/2010	-0.1599	----	----	----	upward	2/22/2011	-0.1713	----	----	----	upward
	9/14/2010	-0.1550	----	----	----	upward	3/21/2011	-0.1642	----	----	----	upward
	10/15/2010	-0.1685	----	----	----	upward	4/20/2011	-0.1722	----	----	----	upward
MW310B - MW310C(2)	5/6/2010 - 5/7/2010	----	----	-0.0939	----	upward	11/24/2010	----	----	-0.1655	----	upward
	6/29/2010	----	----	-0.1071	----	upward	12/14/2010	----	----	-0.0896	----	upward
	7/27/2010	----	----	-0.1144	----	upward	1/13/2011	----	----	NA	----	NA
	8/24/2010	----	----	-0.1186	----	upward	2/22/2011	----	----	NA	----	NA
	9/14/2010*	----	----	-0.1671	----	upward	3/21/2011	----	----	NA	----	NA
	10/15/2010	----	----	-0.1117	----	upward	4/20/2011	----	----	-0.0432	----	upward

(1) Monitoring wells MW302B and MW307B were drilled deeper than originally planned; as a result, the wells have been reclassified as Deep Bedrock wells (i.e., "C" wells).

(2) Monitoring well MW310C is artesian with water flowing from the well. Hydraulic head for well MW310C was set at the top of riser pipe for purposes of calculating vertical gradients.

* Actual hydraulic head for well MW310C was measured and incorporated into the vertical gradient calculation.

NA = Not available

NG = No gradient

Table 2.3-27— Hydraulic Conductivity Values Based on Slug Tests

(Page 1 of 2)

Well ID	METHOD OF SLUG TEST	Kh (ft/day)	Kh (ft/s)	Kh (cm/s)
Glacial Outwash Wells				
MW301A	Falling Head	3.39E+01	3.92E-04	1.20E-02
MW302A1	Falling Head	7.36E+01	8.52E-04	2.60E-02
MW302A2	Falling Head	5.69E+01	6.59E-04	2.01E-02
MW302A3	Falling Head	7.25E+01	8.39E-04	2.56E-02
MW302A4	Falling Head	7.92E+01	9.17E-04	2.79E-02
MW303A	Falling Head	3.70E-02	4.28E-07	1.31E-05
MW304A	Falling Head	3.07E+01	3.55E-04	1.08E-02
MW305A1	Falling Head	6.04E+00	6.99E-05	2.13E-03
MW305A2	Falling Head	7.18E+00	8.31E-05	2.53E-03
MW306A	Falling Head	9.63E+01	1.11E-03	3.40E-02
MW307A	Falling Head	3.38E-02	3.91E-07	1.19E-05
MW308A	Falling Head	3.43E+00	3.97E-05	1.21E-03
MW309A	Falling Head	1.51E+01	1.75E-04	5.33E-03
MW310A	Falling Head	2.38E+01	2.75E-04	8.40E-03
MW410	Falling Head	3.80E+00	4.40E-05	1.34E-03
	Rising Sun	5.94E+00	6.88E-05	2.10E-03
	Mean	4.87E+00	5.64E-05	1.72E-03
Geometric mean		9.84E+00	1.14E-04	3.47E-03
Shallow Bedrock Wells				
MW301B1	Falling Head	1.05E+00	1.22E-05	3.70E-04
MW303B	Falling Head	6.99E+00	8.09E-05	2.47E-03
MW304B	Falling Head	3.85E+01	4.46E-04	1.36E-02
MW305B	Falling Head	2.80E+00	3.24E-05	9.88E-04
MW309B	Falling Head	2.23E+00	2.58E-05	7.87E-04
MW310B	Falling Head	2.36E+00	2.73E-05	8.33E-04
MW401	Falling Head	1.57E+00	1.82E-05	5.54E-04
	Falling Head	1.71E+00	1.98E-05	6.03E-04
	Mean	1.64E+00	1.90E-05	5.79E-04
MW402	Falling Head	1.44E-01	1.67E-06	5.08E-05
	Rising Head	1.33E-01	1.54E-06	4.69E-05
	Mean	1.39E-01	1.60E-06	4.89E-05
MW403	Falling Head	2.72E-01	3.15E-06	9.60E-05
	Rising Head	3.53E-01	4.09E-06	1.25E-04
	Mean	3.13E-01	3.62E-06	1.10E-04
MW404	Falling Head	2.50E+00	2.89E-05	8.82E-04
	Rising Head	3.75E+00	4.34E-05	1.32E-03
	Mean	3.13E+00	3.62E-05	1.10E-03
MW405	Falling Head	1.77E+00	2.05E-05	6.24E-04
	Rising Head	1.87E+00	2.16E-05	6.60E-04
	Mean	1.82E+00	2.11E-05	6.42E-04
MW406	Falling Head	1.05E+00	1.22E-05	3.70E-04
	Rising Head	1.19E+00	1.38E-05	4.20E-04
	Mean	1.12E+00	1.30E-05	3.95E-04
MW407	Falling Head	1.26E+00	1.46E-05	4.45E-04
	Rising Head	1.54E+00	1.78E-05	5.43E-04
	Mean	1.40E+00	1.62E-05	4.94E-04

Table 2.3-27— Hydraulic Conductivity Values Based on Slug Tests

(Page 2 of 2)

Well ID	METHOD OF SLUG TEST	Kh (ft/day)	Kh (ft/s)	Kh (cm/s)
MW408	Falling Head	2.70E-01	3.13E-06	9.53E-05
	Rising Head	2.30E-01	2.66E-06	8.11E-05
	Mean	2.50E-01	2.89E-06	8.82E-05
MW409	Falling Head	8.93E-01	1.03E-05	3.15E-04
	Rising Head	1.04E+00	1.20E-05	3.67E-04
	Mean	9.67E-01	1.12E-05	3.41E-04
Geometric Mean		1.54E+00	1.78E-05	5.43E-04
Deep Bedrock Wells				
MW302B	Falling Head	3.94E-01	4.56E-06	1.39E-04
MW302C	Falling Head	1.48E+00	1.71E-05	5.22E-04
MW304C	Falling Head	5.19E-02	6.01E-07	1.83E-05
MW306C	Falling Head	3.25E-02	3.76E-07	1.15E-05
MW307B	Falling Head	4.27E+00	4.94E-05	1.51E-03
Geometric mean		3.35E-01	3.87E-06	1.18E-04

Table 2.3-28— - Hydraulic Properties Based on Pumping Tests

Pumping Well ID	Observation Well ID	Test Type	Transmissivity, T		Hydraulic Conductivity, Kh		Storage Coefficient, S	Specific Yield, Sy
			(ft^2/day)	cm^2/s)	(ft/day)	(cm/s)	(unitless)	(unitless)
Glacial Outwash Pumping Test								
MW302A1	MW302A2	Drawdown	1.98E+03	2.13E+01	1.10E+02	3.88E-02	NA	5.00E-01
		Recovery	3.00E+03	3.23E+01	1.67E+02	5.89E-02	NA	NA
	Arithmetic Mean		2.49E+03	2.68E+01	1.39E+02	4.89E-02	NA	5.00E-01
	MW302A3	Drawdown	1.85E+03	1.99E+01	1.03E+02	3.63E-02	NA	2.53E-01
		Recovery	6.43E+03	6.91E+01	3.57E+02	1.26E-01	NA	NA
	Arithmetic Mean		4.14E+03	4.45E+01	2.30E+02	8.12E-02	NA	2.53E-01
	MW302A4	Drawdown	2.03E+03	2.18E+01	1.13E+02	3.99E-02	NA	3.22E-01
		Recovery	5.26E+03	5.66E+01	2.92E+02	1.03E-01	NA	NA
	Arithmetic Mean		3.65E+03	3.92E+01	2.03E+02	7.15E-02	NA	3.22E-01
Geometric Mean			3.35E+03	3.60E+01	1.86E+02	6.57E-02	NA	3.44E-01
Median			3.65E+03	3.92E+01	2.03E+02	7.15E-02	NA	3.22E-01
Shallow Bedrock Pumping Tests								
MW301B1	MW301B2	Drawdown	1.31E+01	1.41E-01	2.38E-01	8.40E-05	8.37E-05	NA
		Recovery	1.38E+02	1.48E+00	2.51E+00	8.85E-04	5.50E-04	NA
	MW301B3	Drawdown	1.42E+01	1.53E-01	2.58E-01	9.10E-05	5.37E-05	NA
		Recovery	1.13E+02	1.22E+00	2.05E+00	7.23E-04	2.52E-04	NA
	MW301B4	Drawdown	3.01E+00	3.24E-02	5.46E-02	1.93E-05	1.25E-05	NA
		Recovery	3.17E+01	3.41E-01	5.77E-01	2.04E-04	7.41E-05	NA
	Arithmetic Mean		5.22E+01	5.61E-01	9.48E-01	3.34E-04	1.71E-04	NA
MW404	MW405	Drawdown	1.19E+02	1.28E+00	3.45E+00	1.22E-03	2.60E-04	NA
		Recovery	6.02E+01	6.47E-01	1.75E+00	6.17E-04	1.84E-04	NA
	MW407	Drawdown	1.12E+02	1.20E+00	3.25E+00	1.15E-03	1.15E-04	NA
		Recovery	8.36E+01	8.99E-01	2.42E+00	8.54E-04	2.14E-04	NA
	Arithmetic Mean		9.37E+01	1.01E+00	2.72E+00	9.60E-04	1.93E-04	NA
MW405	MW404	Drawdown	8.84E+01	9.51E-01	2.45E+00	8.64E-04	2.88E-04	NA
		Recovery	1.00E+01	1.08E-01	2.78E-01	9.81E-05	1.43E-04	NA
	MW406	Drawdown	5.30E+01	5.70E-01	1.47E+00	5.19E-04	2.33E-04	NA
		Recovery	2.37E+01	2.55E-01	6.59E-01	2.32E-04	1.91E-04	NA
	Arithmetic Mean		4.38E+01	4.71E-01	1.21E+00	4.28E-04	2.14E-04	NA
MW407	MW404	Drawdown	8.10E+01	8.71E-01	2.53E+00	8.93E-04	1.79E-04	NA
		Recovery	3.45E+01	3.71E-01	1.08E+00	3.81E-04	1.76E-04	NA
	MW409	Drawdown	5.24E+01	5.63E-01	1.64E+00	5.79E-04	7.27E-06	NA
		Recovery	4.04E+01	4.34E-01	1.26E+00	4.45E-04	6.42E-06	NA
	Arithmetic Mean		5.21E+01	5.60E-01	1.63E+00	5.75E-04	9.22E-05	NA
Geometric Mean			5.78E+01	6.21E-01	1.50E+00	5.30E-04	1.60E-04	NA
Median			5.21E+01	5.60E-01	1.42E+00	5.01E-04	1.82E-04	NA

Note:

NA = Not Applicable

Table 2.3-29— Hydraulic Conductivity Values of Bedrock (Mahantango Shale) Based on Packer Tests

(Page 1 of 3)

Depth to Top of Test Zone (ft, bgs)	Depth to Bottom of Test Zone (ft, bgs)	Shallow / Deep Bedrock[1]	Hydraulic Conductivity (Kh)[2][3] (ft/day)	Hydraulic Conductivity (Kh)[2][3] (cm/s)
Monitoring Well MW301C tested on 11/6/2007				
55.7	76.7	Shallow	5.99E-02	2.11E-05
76.7	97.7	Shallow	<1.13E-03	<4.00E-07
97.7	118.7	Shallow	<1.13E-03	<4.00E-07
118.7	139.7	Shallow	<1.13E-03	<4.00E-07
139.7	160.7	Shallow	<1.13E-03	<4.00E-07
160.7	181.7	Shallow	<1.13E-03	<4.00E-07
181.7	202.7	Deep	<1.13E-03	<4.00E-07
202.7	223.7	Deep	<1.13E-03	<4.00E-07
223.7	244.7	Deep	<1.13E-03	<4.00E-07
244.7	265.7	Deep	<1.13E-03	<4.00E-07
265.7	286.7	Deep	<1.13E-03	<4.00E-07
286.7	307.7	Deep	5.78E-03	2.04E-06
307.7	328.7	Deep	5.23E-02	1.85E-05
328.7	349.7	Deep	1.05E-01	3.71E-05
349.7	370.7	Deep	5.78E-02	2.04E-05
370.7	391.7	Deep	4.54E-02	1.60E-05
391.7	397.7	Deep	1.43E-01	5.04E-05
Monitoring Well MW304C tested on 11/2/2007 and 11/3/2007				
117.0	140.0	Shallow	<1.13E-03	<4.00E-07
140.0	163.0	Shallow	<1.13E-03	<4.00E-07
163.0	186.0	Shallow	2.95E-03	1.04E-06
230.0	253.0	Deep	2.35E-03	8.30E-07
253.0	276.0	Deep	<1.13E-03	<4.00E-07
290.0	313.0	Deep	<1.13E-03	<4.00E-07
347.0	370.0	Deep	6.93E-02	2.45E-06
370.0	393.0	Deep	1.24E-02	4.36E-06
442.0	465.0	Deep	<1.13E-03	<4.00E-07
522.0	545.0	Deep	3.11E-03	1.10E-06
Monitoring Well MW306C tested on 11/5/2007				
56.5	76.5	Shallow	3.24E-02	1.14E-05
76.5	96.5	Shallow	3.44E-03	1.21E-06
96.5	116.5	Shallow	4.11E-02	1.45E-05
116.5	136.5	Shallow	<1.13E-03	<4.00E-07
136.5	156.5	Shallow	<1.13E-03	<4.00E-07
156.5	176.5	Shallow	5.60E-02	1.98E-05
176.5	196.5	Deep	<1.13E-03	<4.00E-07
196.5	216.5	Deep	<1.13E-03	<4.00E-07
216.5	236.5	Deep	<1.13E-03	<4.00E-07
236.5	256.5	Deep	<1.13E-03	<4.00E-07
256.5	276.5	Deep	4.42E-03	1.56E-06
276.5	296.5	Deep	4.83E-03	1.70E-06
296.5	316.5	Deep	4.50E-03	1.59E-06
317.5	327.5	Deep	<1.13E-03	<4.00E-07

Table 2.3-29— Hydraulic Conductivity Values of Bedrock (Mahantango Shale) Based on Packer Tests

(Page 2 of 3)

Depth to Top of Test Zone	Depth to Bottom of Test Zone	Shallow / Deep Bedrock[1]	Hydraulic Conductivity (Kh)[2][3]	
(ft, bgs)	(ft, bgs)		(ft/day)	(cm/s)
Monitoring Well MW301C tested on 11/6/2007				
Monitoring Well MW310C (geotechnical boring B327) tested on 11/4/2007				
68.5	88.5	Shallow	3.00E-01	1.06E-04
88.5	108.5	Shallow	<1.13E-03	<4.00E-07
108.5	128.5	Shallow	<1.13E-03	<4.00E-07
128.5	148.5	Shallow	1.73E-02	6.09E-06
148.5	168.5	Shallow	<1.13E-03	<4.00E-07
168.5	188.5	Deep	3.12E-01	1.10E-04
178.5	198.5	Deep	3.34E-01	1.18E-04
Monitoring Well MW313C (geotechnical boring B322) tested on 11/9/2007				
72.5	93.5	Shallow	4.63E-01	1.63E-04
93.5	114.5	Shallow	2.40E-02	8.47E-06
107.5	138.5	Shallow	<1.13E-03	<4.00E-07
114.5	135.5	Shallow	8.04E-02	2.84E-05
128.5	149.5	Shallow	<1.13E-03	<4.00E-07
149.5	170.5	Shallow	<1.13E-03	<4.00E-07
170.5	191.5	Deep	<1.13E-03	<4.00E-07
178.5	191.5	Deep	<1.13E-03	<4.00E-07
Monitoring Well MW401 tested on 4/27/2010, 4/28/2010 and 5/5/2010				
120.6	133.2	Shallow	1.12E-01	3.94E-05
131.6	144.2	Shallow	1.35E-01	4.78E-05
141.6	154.2	Shallow	1.08E+00	3.82E-04
152.6	165.2	Shallow	<1.13E-03	<4.00E-07
162.6	175.2	Shallow	1.13E-03	4.00E-07
183.6	196.2	Deep	2.25E-03	7.95E-07
204.6	217.2	Deep	1.69E-03	5.96E-07
225.6	238.2	Deep	1.74E-03	6.14E-07
Monitoring Well MW402 tested on 5/5/2010 and 5/6/2010				
91.1	103.7	Shallow	5.21E-03	1.84E-06
101.1	113.7	Shallow	1.67E-01	5.90E-05
112.1	124.7	Shallow	4.19E-03	1.48E-06
122.1	134.7	Shallow	3.14E-03	1.11E-06
130.2	142.8	Shallow	<1.13E-03	<4.00E-07
Monitoring Well MW403 tested on 4/21/2010 and 4/22/2010				
75.8	89.1	Shallow	<1.13E-03	<4.00E-07
86.8	100.1	Shallow	<1.13E-03	<4.00E-07
96.8	110.1	Shallow	<1.13E-03	<4.00E-07
107.8	121.1	Shallow	<1.13E-03	<4.00E-07
117.8	131.1	Shallow	<1.13E-03	<4.00E-07
128.8	142.1	Shallow	<1.13E-03	<4.00E-07
138.8	152.1	Shallow	3.85E-02	1.36E-05
149.8	163.1	Shallow	7.48E-03	2.64E-06
170.8	184.1	Deep	<1.13E-03	<4.00E-07
180.8	194.1	Deep	<1.13E-03	<4.00E-07

Table 2.3-29— Hydraulic Conductivity Values of Bedrock (Mahantango Shale) Based on Packer Tests

(Page 3 of 3)

Depth to Top of Test Zone (ft, bgs)	Depth to Bottom of Test Zone (ft, bgs)	Shallow / Deep Bedrock[1]	Hydraulic Conductivity (Kh)[2][3] (ft/day)	(cm/s)
Monitoring Well MW301C tested on 11/6/2007				
191.8	205.1	Deep	4.84E-03	1.71E-06
Monitoring Well MW408 tested on 5/6/2010				
70.6	83.2	Shallow	6.60E-03	2.33E-06
91.6	104.2	Shallow	<1.13E-03	<4.00E-07
101.6	114.2	Shallow	4.39E-03	1.55E-06
112.6	125.2	Shallow	2.75E-01	9.70E-05
122.6	135.2	Shallow	5.61E-03	1.98E-06
133.6	146.2	Shallow	4.39E-03	1.55E-06
154.6	167.2	Shallow	<1.13E-03	<4.00E-07
175.6	188.2	Deep	8.95E-03	3.16E-06
196.6	209.2	Deep	4.48E-03	1.58E-06
215.9	228.5	Deep	6.74E-03	2.38E-06
Shallow Bedrock	n		51	
	Minimum Value		<1.13E-03	<4.00E-07
	Maximum Value		1.08E+00	3.82E-04
	Geometric Mean[4]		5.49E-03	1.94E-06
	Median Value [4]		1.13E-03	4.00E-07
Deep Bedrock	n		39	
	Minimum Value		<1.13E-03	<4.00E-07
	Maximum Value		3.34E-01	1.18E-04
	Geometric Mean[4]		4.30E-03	1.52E-06
	Median Value [4]		2.25E-03	7.95E-07

Notes:

(1) The transition from shallow bedrock to deep bedrock occurs at approximately 175 ft bgs at all borehole locations.

(2) Hydraulic Conductivity values reported are arithmetic means of all tests run in each Test Zone.

(3) The lowest accurate estimate of hydraulic conductivity for the shallow and deep bedrock is considered to be 4.0E-07 cm/s (1.13E-03 ft/day). This hydraulic conductivity value is approximately equal to a flow rate of 0.02 g/min, which is considered to be the lowest reliable flow rate that can be measured while performing packer tests. For all tests where either no flow conditions were assigned to an interval, or flow rates of less than 0.02 g/min were measured, hydraulic conductivity values are presented as <4.00E-07 cm/s (<1.13E-03 ft/day).

(4) For zones that were determined to have either no flow or flow less than 4.00E-07 cm/s, the hydraulic conductivity estimate was set equal to 4.00E-07 cm/s (1.13E-03 ft/day) for the purpose of calculating geometric mean and median values.

Table 2.3-30— Summary of Hydraulic Property Testing at the SSES

(Page 1 of 2)

Type of Test	Location of Test(s)	Geologic Material Tested	Hydraulic Conductivity			
			Horizontal		Vertical	
			(ft/day)	(cm/s)	(ft/day)	(cm/s)
Pumping Tests	Wells TW-1, TW2	Kame Terrace Deposits, lower 40 ft	3.3 to 15.0	1.16E-03 to 5.29E-03		
	Well C	Kame Terrace Deposits, lower 43 ft	200 (1)	7.06E-02(1)		
	Well CPW	Kame Terrace Deposits, 37 ft	194 (1)	6.84E-02 (1)		
	Well 1210	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	7.8	2.75E-03		
	Well 1204	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	21.7 to 29.2	7.66E-03 to 1.03E-02		
Slug Tests	Well 1208	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	1.8	6.35E-04		
	Well 1210	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	6.6	2.33E-03		
Packer Tests	Borings 929-935 and 937-940, near railway bridge over Rt. 11	Mahantango siltstone and black shale, upper 50 ft of rock (41 intervals tested)	0.013 to 0.76 (median = 0.22)	4.59E-06 to 2.68E-04 (median = 7.76E-05)		
	Reactor and Retention Pond Areas	Mahantango siltstone, less than 20 ft bgs	0.85	3.00E-04		
		Mahantango siltstone, more than 20 ft bgs	1.00E-06	3.53E-10		
	Boring 305	Mahantango siltstone, 7 to 52 ft bgs	0.0061 to 0.41	2.15E-06 to 1.45E-04		
	Well 1201	Mahantango siltstone, 6.7 to 35.3 ft bgs	0 to 0.063	0 to 2.22E-05		
	Well 1209A	Mahantango siltstone, 5.7 to 34 ft bgs	0 to 0.028	0 to 9.88E-06		
Open-End Tests in Borings	Retention Pond Area	Kame Terrace deposits; tests performed in 29 borings	5.7	0.00201	13 to 63	0.00459 to 2.22E-02
	Spray Pond Area	Kame Terrace deposits; tests performed in 7 borings	0.022 to 11.8+	7.76E-06 to 4.16E-03		
	Spray Pond Area (borings 1113 and 1114)	Kame Terrace Deposits and upper 2 to 3 ft of bedrock	1.0 to 3.8	3.52E-04 to 1.34E-03		
	Spray Pond Area (borings 1117)	Mahantango siltstone, 12 to 20 ft below top of rock	2.5	8.82E-04		

Table 2.3-30— Summary of Hydraulic Property Testing at the SSES

(Page 2 of 2)

Type of Test	Location of Test(s)	Geologic Material Tested	Hydraulic Conductivity			
			Horizontal		Vertical	
			(ft/day)	(cm/s)	(ft/day)	(cm/s)
Laboratory Permeability Tests	Approximately 1,500 ft (460 m) northeast of plant center	Upper Silty Soil			0.028	9.88E-06
	Boring 1200A at 27 ft bgs	Kame Terrace Deposits			2.3	8.11E-04

Notes:
(1) Based on specific capacity data, assuming wells were 85% efficient
bgs = below ground surface

Table 2.3-31— SSES Unit 1 & 2 Monthly Consumptive Water Use

Monthly Total Water Use Rate (Million Gallons per Month)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2001	824	785	569	554	1,011	1,089	1,131	1,157	1,046	1,028	950	894
2002	868	748	436	592	1,030	1,103	1,175	1,173	1,079	770	894	851
2003	986	927	865	625	1,042	1,051	1,145	1,139	931	986	927	865
2004	740	702	503	581	1,081	1,060	1,112	1,129	1,045	985	833	850
2005	791	682	531	870	1,024	1,032	1,145	1,153	1,078	985	757	827
2006	884	744	525	739	974	1,054	1,149	1,138	1,008	685	930	911
Source: PPL (2008)												

Table 2.3-32— Major Public Water Suppliers within Luzerne and Columbia Counties

PWSIS	System Name	County	Source Waterbody Name	Source Pumping Capacity (GPD)	Source Safe Yield (GPD)
4190008	United Water PA Bloomsburg	Columbia	Fishing Creek	5,760,000	5,000,000
2409002	PA American Water Company- Ceasetown	Luzerne	Ceasetown Reservoir	8,300,000	13,200,000
2409002	PA American Water Company- Ceasetown	Luzerne	Harveys Creek	1,300,000	1,300,000
2409003	PA American Water Company- Crystal Lake	Luzerne	Crystal Lake	0	5,000,000
2409003	PA American Water Company- Crystal Lake	Luzerne	Crystal Lake	-	-
2409013	PA American Water Company- Huntsville	Luzerne	Huntsville Reservoir	4,500,000	6,000,000
2409010	PA American Water Company- Nesbitt	Luzerne	Maple Lake	0	0
2409010	PA American Water Company- Nesbitt	Luzerne	Watres Reservoir	-	2,600,000
2409010	PA American Water Company- Nesbitt	Luzerne	Nesbitt	0	0
2409011	PA American Water Company- Watres	Luzerne	Mill Creek Reservoir	-	-
2409011	PA American Water Company- Watres	Luzerne	Gardner Cr. Reservoir	-	-
2409011	PA American Water Company- Watres	Luzerne	Watres Reservoir	0	0
2400148	Stockton Water System	Luzerne	Ponds	-	-
2408001	HCA Roan Filter Plant ID-006	Luzerne	Stony Cabin Creek	0	0
2408001	HCA Roan Filter Plant ID-005	Luzerne	Wolfe's Run	0	0
2408001	HCA Roan Filter PlantID-004	Luzerne	Dreck Creek	0	0
2408001	HCA Roan Filter Plant ID-003	Luzerne	Biesel's Run	0	0
2408001	HCA Roan Filter Plant ID-002	Luzerne	Oberson's Run	0	0
2408001	HCA Roan Filter Plant ID-018	Luzerne	Shaffers Run	0	0
2408001	HCA Roan Filter Plant ID-012	Luzerne	Mt. Pleasant Spring	0	0
2408001	HCA Roan Filter Plant ID-021	Luzerne	Lehigh River	0	0

Source: USEPA (2008b) and PADEP (2010c)
Note: GPD = Gallons per day

Table 2.3-33— SSES Cooling Tower Blowdown Discharge Rate Permit No. PA0047325

Monthly Average and Maximum Discharge Rate (Million Gallons per Day

MONTH	2000		2001		2002		2003		2004		2005		2006		2007	
	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
January	6.86	11.81	11.17	15.55	8.91	10.42	6.58	10.42	11.08	17.72	12.09	17.29	9.41	15.08	10.63	16.92
February	9.68	17.28	10.24	11.88	7.52	10.08	9.22	10.30	12.36	14.36	11.15	17.28	9.72	12.10	11.47	14.69
March	8.26	17.28	6.45	10.94	5.67	9.07	6.70	8.64	8.84	14.44	8.76	17.28	8.16	11.48	9.49	16.48
April	7.80	11.28	6.96	11.52	8.46	10.85	7.28	10.37	11.94	17.28	14.54	17.28	10.93	12.94	13.04	17.28
May	14.37	17.28	15.86	17.28	12.80	17.06	12.84	16.85	11.30	15.88	12.89	14.28	12.01	15.56	14.36	17.22
June	15.19	17.28	17.08	17.28	16.68	17.28	13.64	17.28	14.53	16.98	13.15	17.28	14.33	17.28	17.17	17.28
July	15.66	17.28	15.40	17.28	17.13	17.28	16.79	17.28	16.35	17.28	12.27	16.05	16.15	17.28	17.20	17.28
August	13.51	17.28	16.33	16.70	17.05	17.28	17.13	17.28	15.61	17.28	12.63	17.28	17.01	17.28	17.28	17.28
September	14.40	17.28	16.72	17.28	16.16	17.28	13.26	17.28	16.54	17.28	13.28	17.28	16.35	17.28	15.24	17.28
October	11.12	13.39	13.18	15.26	10.60	15.12	9.56	15.26	11.62	16.72	13.71	17.28	12.83	17.10	13.51	17.28
November	9.36	16.92	13.71	16.18	9.19	12.24	11.57	17.28	9.84	13.61	8.59	13.21	12.74	17.16	10.73	17.28
December	11.46	17.28	11.17	15.55	6.49	11.52	9.73	17.78	13.42	17.28	9.91	16.71	11.75	16.36	9.23	14.33
Source: PPL (2008)																

Table 2.3-34— Water Pollution Control Facilities in Luzerne County

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ORGANIZATION	SITE ID	SUB FACI 2	SITE STATUS
ABC AUTO PARTS INC	620579	DISCHARGE POINT	ACTIVE
ABF FREIGHT SYS INC	535140	DISCHARGE POINT	ACTIVE
ADM COCOA*	672385	DISCHARGE POINT	ACTIVE
AGWAY PETRO CORP	245439	TREATMENT PLANT	ACTIVE
AGWAY PETRO CORP	245439	DISCHARGE POINT	ACTIVE
ALLAN IND	491075	DISCHARGE POINT	ACTIVE
ALLIANCE LDFL	452024	DISCHARGE POINT	ACTIVE
ALTEC IND INC*	253079	DISCHARGE POINT	ACTIVE
AMER ROCK SALT CO LLC	534131	DISCHARGE POINT	ACTIVE
AQUA PA INC	257459	TREATMENT PLANT	ACTIVE
AQUA PA INC	257459	DISCHARGE POINT	ACTIVE
AQUA PA INC	257459	PUMP STATION	ACTIVE
AQUA PA INC*	257459	CONVEYANCE SYSTEM	ACTIVE
BEMIS CO INC	238511	DISCHARGE POINT	ACTIVE
BP PROD NORTH AMER INC	245780	DISCHARGE POINT	ACTIVE
BRIDON AMER CORP	465509	DISCHARGE POINT	ACTIVE
BRUSH WELLMAN CORP	450819	DISCHARGE POINT	ACTIVE
BUTLER PROD	540068	DISCHARGE POINT	ACTIVE
BUTLER TWP LUZERNE CNTY	712713	PUMP STATION	ACTIVE
CABOT CORP*	241624	DISCHARGE POINT	ACTIVE
CABOT CORP	241624	PRODUCTION SERVICE UNIT	ACTIVE
CASTEK INC	515571	DISCHARGE POINT	ACTIVE
CBD ENTERPRISES INC	250561	DISCHARGE POINT	ACTIVE
CELOTEX CORP	513776	TREATMENT PLANT	ACTIVE
CELOTEX CORP	513776	PRODUCTION SERVICE UNIT	ACTIVE
CELOTEX CORP*	513776	DISCHARGE POINT	ACTIVE
CERTAINTEED CORP*	242936	DISCHARGE POINT	ACTIVE
CON WAY FREIGHT INC	534973	DISCHARGE POINT	ACTIVE
CORNELL IRON WORKS INC	510736	DISCHARGE POINT	ACTIVE
DALLAS AREA MUNI AUTH	673977	CONVEYANCE SYSTEM	ACTIVE
DALLAS AREA MUNI AUTH	681690	PUMP STATION	ACTIVE
DIAL CORP*	262476	DISCHARGE POINT	ACTIVE
DOWNS RACING LP	710982	DISCHARGE POINT	ACTIVE
DOWNS RACING LP	710982	LAND DISCHARGE	ACTIVE
DUPONT TERM CORP	245439	TREATMENT PLANT	ACTIVE
DUPONT TERM CORP*	245439	DISCHARGE POINT	ACTIVE
EAGLE ROCK RESORT INC	718816	CONVEYANCE SYSTEM	ACTIVE
EAGLE ROCK RESORT INC	718863	CONVEYANCE SYSTEM	ACTIVE
EDWARD LUKASHEWSKI	532225	DISCHARGE POINT	ACTIVE
EFS INC ED SPENCER AUTO PARTS	540326	DISCHARGE POINT	ACTIVE
ELDORADO PROP CORP*	236472	DISCHARGE POINT	ACTIVE
ENTENMANNS	534395	PRODUCTION SERVICE UNIT	INACTIVE
ENTENMANNS	534395	DISCHARGE POINT	INACTIVE
EXOPACK	519371	PRODUCTION SERVICE UNIT	ACTIVE
EXXON 739 CORP	260255	DISCHARGE POINT	ACTIVE
EXXON 739 CORP	260255	TREATMENT PLANT	ACTIVE
FABRAL INC	607189	DISCHARGE POINT	ACTIVE

Table 2.3-34— Water Pollution Control Facilities in Luzerne County

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ORGANIZATION	SITE ID	SUB FACI 2	SITE STATUS
FAIRCHILD SEMICONDUCTOR INC	471870	DISCHARGE POINT	ACTIVE
FEDEX CORP	533615	PRODUCTION SERVICE UNIT	ACTIVE
FEDEX NATL LTL INC	662274	DISCHARGE POINT	ACTIVE
FLEXTRONICS	547487	DISCHARGE POINT	ACTIVE
GEN MILLS INC	536701	DISCHARGE POINT	ACTIVE
GEORGE WESTON BAKERIES INC	694370	PRODUCTION SERVICE UNIT	ACTIVE
GRAHAM PKG CO LP	635944	DISCHARGE POINT	ACTIVE
GRAHAM PKG CO LP*	637387	DISCHARGE POINT	ACTIVE
GREIF BROS CORP	534867	DISCHARGE POINT	ACTIVE
GRUMA CORP	655837	DISCHARGE POINT	ACTIVE
GSD PKG LLC	670073	PRODUCTION SERVICE UNIT	ACTIVE
GULF OIL LTD PARTNERSHIP	465179	DISCHARGE POINT	ACTIVE
HANOVER TWP LUZERNE CNTY	701190	PUMP STATION	ACTIVE
HAZLETON CASTING CO	647590	DISCHARGE POINT	ACTIVE
HAZLETON CITY WATER AUTH LUZERNE CNTY	447541	DISCHARGE POINT	ACTIVE
HERSHEY FOODS CORP*	481099	DISCHARGE POINT	ACTIVE
HPG INTL INC	248877	DISCHARGE POINT	ACTIVE
HPG INTL INC	248877	PRODUCTION SERVICE UNIT	ACTIVE
HPG INTL INC	248877	TREATMENT PLANT	ACTIVE
IDEAL SLEEVES	709991	PRODUCTION SERVICE UNIT	ACTIVE
INDALEX INC -MOUNTAINTOP DIV	525674	DISCHARGE POINT	ACTIVE
INTERMETRO IND CORP	248955	DISCHARGE POINT	ACTIVE
INTERMETRO IND CORP	527804	DISCHARGE POINT	ACTIVE
INTERSIL CORP	471870	CONVEYANCE SYSTEM	ACTIVE
INTERSIL CORP	471870	PRODUCTION SERVICE UNIT	ACTIVE
INTERSIL CORP	471870	TREATMENT PLANT	ACTIVE
INTERSIL CORP*	471870	DISCHARGE POINT	ACTIVE
IRECO INC	241565	DISCHARGE POINT	ACTIVE
JACOBSON CO INC	699736	PRODUCTION SERVICE UNIT	ACTIVE
JOHNS MANVILLE*	534260	DISCHARGE POINT	ACTIVE
KOEHLER BRIGHT STAR INC	492785	DISCHARGE POINT	ACTIVE
LAKESIDE ENERGY LLC	487450	DISCHARGE POINT	ACTIVE
LEGGETT & PLATT INC	449768	DISCHARGE POINT	ACTIVE
LION INC	535126	DISCHARGE POINT	ACTIVE
LOUIS COHEN & SON INC	534190	DISCHARGE POINT	ACTIVE
M H BRENNER RECYCLING INC	534796	DISCHARGE POINT	ACTIVE
MOUNTAINTOP ANTHRACITE INC*	672278	DISCHARGE POINT	ACTIVE
MULTI-PLASTICS EXTRUSIONS INC	257484	DISCHARGE POINT	ACTIVE
OFFSET PAPERBACK MANUFACTURERS INC	243274	PRODUCTION SERVICE UNIT	ACTIVE
OHIO MATTRESS CO LICENSING & COMPONENTS GROUP INC*	671080	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	243286	PRODUCTION SERVICE UNIT	ACTIVE
PA AMER WATER CO	243286	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	243286	TREATMENT PLANT	ACTIVE
PA AMER WATER CO	446349	DISCHARGE POINT	ACTIVE
PA AMER WATER CO*	449229	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	449233	DISCHARGE POINT	ACTIVE

Table 2.3-34— Water Pollution Control Facilities in Luzerne County

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ORGANIZATION	SITE ID	SUB FACI 2	SITE STATUS
PA AMER WATER CO	452022	DISCHARGE POINT	ACTIVE
PA AMER WATER CO	480951	DISCHARGE POINT	ACTIVE
PA DEP NERO	544343	DISCHARGE POINT	ACTIVE
PA DEPT OF CORR	516545	TREATMENT PLANT	ACTIVE
PA DEPT OF CORR	516545	CONVEYANCE SYSTEM	ACTIVE
PA DEPT OF CORR*	516545	DISCHARGE POINT	ACTIVE
PETRO SVC CORP	547319	DISCHARGE POINT	ACTIVE
PILOT CORP	250389	DISCHARGE POINT	ACTIVE
PITT OHIO EXPRESS LLC	534226	DISCHARGE POINT	ACTIVE
PITTSTON CITY LUZERNE CNTY	694161	CONVEYANCE SYSTEM	ACTIVE
POLYGLASS USA INC*	525105	DISCHARGE POINT	ACTIVE
PPL ELEC UTILITIES CORP	250359	PRODUCTION SERVICE UNIT	ACTIVE
PPL ELEC UTILITIES CORP	250359	TREATMENT PLANT	ACTIVE
PPL ELEC UTILITIES CORP*	250359	DISCHARGE POINT	ACTIVE
PRETIUM PKG*	712248	PRODUCTION SERVICE UNIT	ACTIVE
PUMP N PANTRY INC	580879	DISCHARGE POINT	ACTIVE
R & H MFG INC	258151	PRODUCTION SERVICE UNIT	ACTIVE
ROCK TENN FOLD PAK HAZLETON	712274	PRODUCTION SERVICE UNIT	ACTIVE
SANDUSKY LEWIS METAL PROD INC	236732	TREATMENT PLANT	ACTIVE
SANDUSKY LEWIS METAL PROD INC	236732	DISCHARGE POINT	ACTIVE
SAPA EXTRUDER INC	525674	DISCHARGE POINT	ACTIVE
SCHOTT NORTH AMER INC	256591	DISCHARGE POINT	ACTIVE
SCHOTT NORTH AMER INC	256591	TREATMENT PLANT	ACTIVE
SLUSSER BROS TRUCKING & EXCAV CO INC	513213	DISCHARGE POINT	ACTIVE
SLUSSER BROS TRUCKING & EXCAV CO INC	534045	DISCHARGE POINT	ACTIVE
SMITHS AEROSPACE COMPONENTS	665612	DISCHARGE POINT	ACTIVE
SOUTHERN ALLEGHENIES LDFL INC	803	TREATMENT PLANT	ACTIVE
STAR ENTERPRISE*	248793	DISCHARGE POINT	ACTIVE
STERICYCLE INC	535121	DISCHARGE POINT	ACTIVE
SUNOCO INC	552807	DISCHARGE POINT	INACTIVE
SUNOCO INC	465963	DISCHARGE POINT	ACTIVE
SVC MFG INC*	481491	DISCHARGE POINT	ACTIVE
TECHNEGLAS INC	244619	PRODUCTION SERVICE UNIT	ACTIVE
TECHNEGLAS INC	244619	TREATMENT PLANT	ACTIVE
TECHNEGLAS INC*	244619	DISCHARGE POINT	ACTIVE
THREE SPRINGS WATER CO	261223	DISCHARGE POINT	ACTIVE
TRANSCONTINENTAL GAS PIPE LINE CO LLC	519289	DISCHARGE POINT	ACTIVE
TRANSCONTINENTAL GAS PIPE LINE CO LLC	696904	DISCHARGE POINT	ACTIVE
UGI DEVELOPMENT COMPANY	264295	STORAGE UNIT	ACTIVE
UGI DEVELOPMENT COMPANY	264295	PRODUCTION SERVICE UNIT	ACTIVE
UGI DEVELOPMENT COMPANY *	264295	DISCHARGE POINT	ACTIVE
Unavailable	708836	BIOSOLIDS TREATMENT	ACTIVE
UNISON ENGINE COMPONENTS INC	665612	DISCHARGE POINT	ACTIVE
UNISON ENGINE COMPONENTS INC*	511980	DISCHARGE POINT	ACTIVE
UPS INC	534803	DISCHARGE POINT	ACTIVE
VALMONT NEWMARK INC.	705881	DISCHARGE POINT	ACTIVE
VALMONT NEWMARK INC.*	534220	DISCHARGE POINT	ACTIVE

Table 2.3-34— Water Pollution Control Facilities in Luzerne County

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ORGANIZATION	SITE ID	SUB FACI 2	SITE STATUS
WEIR HAZLETON INC	511126	DISCHARGE POINT	ACTIVE
WEST PITTSTON BORO LUZERNE CNTY	717827	CONVEYANCE SYSTEM	ACTIVE
WILKES BARRE SCRANTON INTL AIRPORT*	489635	DISCHARGE POINT	ACTIVE
WILLIAMS GAS PIPELINE TRANSCO	689478	DISCHARGE POINT	ACTIVE
YRC INC	725319	PRODUCTION SERVICE UNIT	ACTIVE
Source: PADEP (2010b)			
***Denotes multiple discharge points**			

Table 2.3-35— Water Use in the Upper Susquehanna River Basin, Pennsylvania, in 1970

Type of Use	Withdrawals					
	Groundwater		Surface Water		Total	
	million gpd	lpd	million gpd	lpd	million gpd	lpd
Public Supply	13.1	4.95E+07	99.5	3.76E+08	112.6	4.26E+08
Domestic Supply	8.3	3.14E+07	0.0	0.00E+00	8.3	3.14E+07
Industrial	8.1	3.06E+07	34.0	1.29E+08	42.1	1.59E+08
Mineral	10.3	3.89E+07	5.5	2.08E+07	15.8	5.97E+07
Agricultural	3.6	1.36E+07	2.0	7.56E+06	5.6	2.12E+07
Golf Course	0.2	7.56E+05	1.0	3.78E+06	1.2	4.54E+06
Institutional	0.6	2.27E+06	0.4	1.51E+06	1.0	3.78E+06
Power	0.0	0.00E+00	120.9	4.57E+08	120.9	4.57E+08
Totals	44.2	1.67E+08	263.3	9.95E+08	307.5	1.16E+09

million gpd = million gallons per day
lpd = liters per day
Reference: Taylor, 1984

Table 2.3-36— Surface Water Users in Luzerne County

(Page 1 of 2)

ORGANIZATION	SITE_ID	WATER BODY	PRIMARY USE	SITE STATUS
AIRPORT SAND & GRAVEL CO INC	256331	ABRAHAM CREEK DIV	MINERAL USE	ACTIVE
AMER ASPHALT PAVING CO	448323	BROWNS CREEK DIV	MINERAL USE	ACTIVE
APPLEWOOD GC	625899	LEWIS CREEK	COMMERCIAL USE	ACTIVE
BARLETTA BROS	245902	NESCOPECK CREEK	COMMERCIAL USE	ACTIVE
BARLETTA MATERIALS & CONST INC	271224	SUSQUEHANNA RIVER	INDUSTRIAL USE	ACTIVE
BURTAM CORP	491078	POND HOLE 18	COMMERCIAL USE	ACTIVE
CARBON SALES INC	259022	MILL CREEK WITH	MINERAL USE	ACTIVE
CHRISTINE & WILLIAM MISSON	245088	POND A	COMMERCIAL USE	ACTIVE
CHRISTINE & WILLIAM MISSON	245088	POND B	COMMERCIAL USE	ACTIVE
CHRISTINE & WILLIAM MISSON	245088	POND C	COMMERCIAL USE	ACTIVE
CONTINENTIAL ENERGY ASSOC	492489	POND DIV	MINERAL USE	ACTIVE
DIAMOND COAL CO INC	250506	RESERVOIR DIV	MINERAL USE	ACTIVE
DRUE CHAPIN & SONS	662342	INTAKE 1	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662342	INTAKE 2	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662342	INTAKE 3	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	672354	INTAKE 1	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 1	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 2	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 3	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 4	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 5	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 6	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	662343	INTAKE 7	AGRICULTURAL USE	ACTIVE
DRUE CHAPIN & SONS	672341	INTAKE 1	AGRICULTURAL USE	ACTIVE
FRED W ECKEL SONS	677216	SUSQUEHANNA RIVER INTAKE	AGRICULTURAL USE	ACTIVE
GEN CRUSHED STONE CO	258181	POND WITHDRAWAL	MINERAL USE	ACTIVE
GERALD & LEWIS NAUGLE	261815	PIKES CRK DIV	MINERAL USE	ACTIVE
HUNLOCK SAND & GRAVEL CO	450734	ROARING BROOK	MINERAL USE	ACTIVE
HUNLOCK SAND & GRAVEL CO	450734	POND	MINERAL USE	ACTIVE
HUNTSVILLE GC	446924	MARKET STREET IRRIGATION POND	COMMERCIAL USE	ACTIVE
INDIAN SPRINGS SAWMILL	549919	YEAGER RUN	INDUSTRIAL USE	ACTIVE
JA & WA HESS INC	452784	SUSQUEHANNA RVR	MINERAL USE	ACTIVE

Table 2.3-36— Surface Water Users in Luzerne County

(Page 2 of 2)

ORGANIZATION	SITE_ID	WATER BODY	PRIMARY USE	SITE STATUS
JA & WA HESS INC	452784	SUSQUEHANNA WITHDRAWAL	MINERAL USE	ACTIVE
JEAN RUN INC	449143	FARM POND	COMMERCIAL USE	ACTIVE
KAMINSKI BROS INC	442707	POND WITHDRAWAL	MINERAL USE	ACTIVE
KAMINSKI BROS INC	449046	SILT POND	INDUSTRIAL USE	ACTIVE
KELLY INVESTORS INC	445826	RESERVOIR DIV	MINERAL USE	INACTIVE
KEYSTONE COCA COLA BOTTLING CORP	258071	SURFACE WITHDRAW	INDUSTRIAL USE	ACTIVE
NEWBERRY GOLF ESTATE CC	269371	POND	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	COAL CREEK	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	HARVEYS CREEK	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	CAMPBELLS LEDGE	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	LAUREL RUN	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	PINE RUN INTAKE	COMMERCIAL USE	ACTIVE
PG ENERGY INC	494082	WANAMIE	COMMERCIAL USE	ACTIVE
SHIRLEY M RINEHIMER	254432	POND WITHDRAWAL	MINERAL USE	INACTIVE
SUGARLOAF GC INC	243760	POND	COMMERCIAL USE	ACTIVE
SUGARLOAF GC INC	243760	BUCK MOUNTAIN STREAM	COMMERCIAL USE	ACTIVE
Unavailable	259075	SURFACE WITHDRAWAL	AGRICULTURAL USE	ACTIVE
VALLEY CC	243972	PONDS 3, 5, 12, AND 13	COMMERCIAL USE	ACTIVE
WILKES BARRE CITY GEN MUNI AUTH LUZERNE CNTY	243780	FIVE MILE RUN	COMMERCIAL USE	ACTIVE
WYOMING VALLEY CC	260442	POND	COMMERCIAL USE	ACTIVE

Source: PADEP (2010a)

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

(Page 1 of 165)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
7927	12/1/1977	KRUSLICKY, P	40.81528	-75.87333	97	OPEN HOLE	0	20	DOMESTIC
7928	1/1/1905	SUMMIT HILL WATER AUTH	40.81583	-75.85917	242	OPEN HOLE	161	10	PUBLIC SUPPLY
7929		SUMMIT HILL WATER AUTH	40.81611	-75.85833	250	OPEN HOLE	227	6	PUBLIC SUPPLY
7931	5/19/1984	SUMMIT HILL WATER AUTH	40.81667	-75.85778	400	UNKNOWN	0	0	PUBLIC SUPPLY
7933		SUMMIT HILL WATER AUTH	40.81722	-75.85972	335	OPEN HOLE	190	4	PUBLIC SUPPLY
7942	11/1/1979	HORVAT, JOE	40.81972	-75.86083	100	OPEN HOLE	0	20	DOMESTIC
7943	4/1/1980	FOULK, M	40.82056	-75.86000	106	OPEN HOLE	0	30	DOMESTIC
7946	4/1/1969	PETRO , JOHN	40.82167	-75.85750	110	OPEN HOLE	30	50	DOMESTIC
7947	10/1/1968	LANZOS , JOSEPH	40.82194	-75.85778	90	OPEN HOLE	20	40	DOMESTIC
7954	7/1/1980	MAURER, J	40.82250	-75.85667	225	OPEN HOLE	10	32	DOMESTIC
7956	6/16/1976	MILLER, IRVIN	40.82278	-75.85444	105	OPEN HOLE	20	28	DOMESTIC
7957	11/1/1977	BOYLE, BOB	40.82306	-75.85361	95	OPEN HOLE	0	30	DOMESTIC
7958	8/21/1978	ALLESCH, J	40.82306	-75.85500	125	OPEN HOLE	0	57	DOMESTIC
7960		EMBODY	40.82361	-75.85250	75	OPEN HOLE	0	0	DOMESTIC
7966		GORMAN	40.82528	-75.85056	96	OPEN HOLE	0	40	DOMESTIC
8014		PANTHER VALLEY WATER CO	40.84972	-75.87472	600	OPEN HOLE	0	12	PUBLIC SUPPLY
8048	3/2/1984	AMETEK INC	40.86139	-75.84083	550	OPEN HOLE	96	15	INDUSTRIAL
8049	4/18/1975	AMETEK INC	40.86167	-75.83972	600	OPEN HOLE	55	5	INDUSTRIAL
8050	12/30/1974	AMETEK INC	40.86167	-75.84000	600	OPEN HOLE	60	0	INDUSTRIAL
8052		FISH HATCHERY	40.86417	-75.90278	50	OPEN HOLE	0	10	DOMESTIC
8085		GERHARD	40.89667	-75.91694	0		0	25	DOMESTIC
8087		RHOMIG	40.91472	-75.85750	79	OPEN HOLE	0	35	DOMESTIC
8088		PASCOE	40.91611	-75.87500	70	OPEN HOLE	0	30	DOMESTIC
8089	8/1/1966	WALKO , J	40.91694	-75.86250	182	OPEN HOLE	15	40	DOMESTIC
8090	1/1/1900	YACKANICZ	40.92944	-75.91667	27	OPEN HOLE	0	13	DOMESTIC
8091	1/1/1971	WEATHERLY BOROUGH	40.94111	-75.82056	144	OPEN HOLE	411	0	PUBLIC SUPPLY
8091	1/1/1971	WEATHERLY BOROUGH	40.94111	-75.82056	144	OPEN HOLE	411	0	PUBLIC SUPPLY
8092		WEATHERLY BOROUGH	40.94139	-75.84194	225	UNKNOWN	0	0	PUBLIC SUPPLY
8093	9/1/1981	WEATHERLY BOROUGH	40.94361	-75.82917	223	OPEN HOLE	126	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
8096	1/1/1910	BUCHMAN	40.96444	-75.76278	99	OPEN HOLE	0	0	DOMESTIC
8097	9/12/1930	SOURS	40.96472	-75.77806	60	OPEN HOLE	0	36	DOMESTIC
8099	1/1/1923	MILLER	40.96806	-75.76778	75	OPEN HOLE	0	30	DOMESTIC
8102	1/1/1984	GREGORY , WILLIAM	40.97139	-75.77028	365	OPEN HOLE	12	65	DOMESTIC
8103		KENNEDY	40.97722	-75.78278	65	OPEN HOLE	0	30	DOMESTIC
8104	8/16/1974	MOSER , DAVID	40.97889	-75.79167	140	OPEN HOLE	25	40	DOMESTIC
8105	1/1/1978	TULAY , JOSEPH	40.97917	-75.81972	140	OPEN HOLE	25	25	DOMESTIC
8106			40.98139	-75.81361	0		0	0	UNUSED
8107	5/1/1982	WHITE WATER RAFTING	40.98361	-75.78556	569	OPEN HOLE	200	43	OTHER
8108	7/8/1977	YANC , ROBERT	40.98444	-75.78583	225	OPEN HOLE	18	38	PUBLIC SUPPLY
8109	7/7/1977	LESCO , JOSEPH	40.98833	-75.78583	289	OPEN HOLE	12	32	PUBLIC SUPPLY
8112	6/26/1969	US GEOLOGICAL SURVEY	41.02306	-75.71500	125	OPEN HOLE	17	64	UNUSED
8118		MARTINIS J	41.06250	-75.76889	78	OPEN HOLE	0	35	DOMESTIC
8123	5/22/1991	HAZELTON CITY AUTH	40.97056	-75.81389	270	OPEN HOLE	385	3	PUBLIC SUPPLY
8124	11/13/1990	COOPER INDUSTRIES INC	40.94500	-75.83056	39	SCREEN	29	11	OTHER
8125	4/23/1991	COOPER INDUSTRIES INC	40.94500	-75.83056	96	OPEN HOLE	31	11	UNUSED
8126	10/25/1990	COOPER INDUSTRIES INC	40.94417	-75.83139	15	OPEN HOLE	23	9	OTHER
8127		COOPER INDUSTRIES INC	40.94417	-75.83139	105	SCREEN	3	13	UNUSED
8128	11/7/1990	COOPER INDUSTRIES INC	40.94389	-75.82972	39	OPEN HOLE	6	10	OTHER
8129	5/3/1991	COOPER INDUSTRIES INC	40.94389	-75.82972	125	OPEN HOLE	12	20	UNUSED
8130	4/23/1991	COOPER INDUSTRIES INC	40.94472	-75.83028	40	OPEN HOLE	33	21	OTHER
8131	11/2/1990	COOPER INDUSTRIES INC	40.94583	-75.83111	38	OPEN HOLE	0	0	UNUSED
13912	1/5/1978	MERVINE, R.	41.10028	-76.59917	170	OPEN HOLE	6	80	DOMESTIC
13927	1/22/1974	DEPT OF EN VIRON RESO	40.77694	-76.37944	273	OPEN HOLE	0	54	UNUSED
13928		ROARING CK WATER CO.	40.83583	-76.36556	302	UNKNOWN	400	0	PUBLIC SUPPLY
13929		CATAWISSA WATER AUTH	40.95056	-76.44917	0		0	0	PUBLIC SUPPLY
13930	1/1/1968		40.97500	-76.43444	0		0	0	DOMESTIC
13931	8/21/1979	U.S. GEOL. SURVEY	40.98667	-76.47306	0	UNKNOWN	0	0	UNUSED
13932	8/21/1979	U.S. GEOL. SURVEY	40.99000	-76.46889	40	SCREEN	0	12	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
13933			40.99306	-76.41611	0		0	0	DOMESTIC
13934	11/1/1964	BLOOMSBURG MILLS,INC	40.99583	-76.45833	420	OPEN HOLE	620	32	AIR CONDITIONING
13935		MAGEE CARPET CO.	40.99583	-76.46083	202	OPEN HOLE	185	42	INDUSTRIAL
13936	7/1/1940	BLOOMSBURG MILLS,INC	40.99611	-76.45722	498	OPEN HOLE	542	25	AIR CONDITIONING
13937	12/1/1944	BLOOMSBURG MILLS, IN	40.99667	-76.45611	550	OPEN HOLE	0	35	INDUSTRIAL
13938	1/1/1980	ARCO	40.99917	-76.46528	30	UNKNOWN	0	15	OTHER
13939	1/1/1980		40.99917	-76.46528	30	UNKNOWN	0	14	UNUSED
13940	12/3/1974	AMOCO	41.00639	-76.43167	75	OPEN HOLE	0	5	DOMESTIC
13941	3/12/1970	ISOLA	41.01028	-76.40389	75	UNKNOWN	12	20	DOMESTIC
13942	4/10/1976	CRAWFORD, JOE	41.01111	-76.41361	47	OPEN HOLE	10	3	DOMESTIC
13943	7/1/1978	HILL, MARY	41.01167	-76.45778	173	OPEN HOLE	0	33	DOMESTIC
13944	3/4/1970	KOONS, VENICE	41.01222	-76.40111	53	OPEN HOLE	30	15	DOMESTIC
13945	2/1/1979	U.S. RADIUM CORP.	41.01583	-76.37611	37	PERFORATED OR SLOTTED	0	0	UNUSED
13946	1/21/1967	MECKLEY, DONALD	41.01944	-76.43139	280	OPEN HOLE	8	60	DOMESTIC
13947	10/1/1974	KREAMER, JIM	41.01972	-76.46778	125	OPEN HOLE	10	100	DOMESTIC
13948	5/30/1980	YORTY, CINDY	41.02111	-76.35750	175	OPEN HOLE	0	13	DOMESTIC
13949	8/15/1972	WAGNER, CLAIRE	41.02139	-76.35472	60	OPEN HOLE	14	0	DOMESTIC
13950	10/6/1980	U.S. GEOLOGICAL SURVEY	41.02222	-76.35861	125	OPEN HOLE	25	0	DOMESTIC
13951	1/1/1977	BLOOMSBURG CARPET IN	41.02306	-76.37417	40	UNKNOWN	0	10	INDUSTRIAL
13952	8/21/1967	MARTZ, ALLEN	41.02306	-76.50667	120	OPEN HOLE	5	25	DOMESTIC
13953	8/17/1966	HOLDREN, ROBERT	41.02389	-76.37417	95	UNKNOWN	12	1	DOMESTIC
13954	10/9/1972	JOHNSON, J.	41.02417	-76.35278	70	OPEN HOLE	30	0	DOMESTIC
13955	1/1/1980		41.02556	-76.45444	0		0	0	DOMESTIC
13956			41.02556	-76.45556	0		0	0	DOMESTIC
13957	9/29/1966	YOUNG, GERALD B	41.02611	-76.33722	63	OPEN HOLE	0	25	DOMESTIC
13958	18800101	WOLF JOHN	41.02611	-76.37222	25	UNKNOWN	0	13	UNUSED
13959	6/1/1981	RUPERT, HELEN	41.02722	-76.33806	106	OPEN HOLE	5	30	DOMESTIC
13960	7/1/1981	RUPERT, HELEN	41.02722	-76.33806	90	OPEN HOLE	3	34	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
13961	9/1/1967	COL-MONT VO-TECH	41.02889	-76.36222	155	OPEN HOLE	0	53	PUBLIC SUPPLY
13962	7/18/1970	POLORON	41.02917	-76.34639	300	OPEN HOLE	0	34	INDUSTRIAL
13963	9/10/1975	BELLES DAVID	41.02944	-76.33611	80	OPEN HOLE	10	0	DOMESTIC
13964	4/11/1967	WELLIVER, CARL	41.02972	-76.47639	175	OPEN HOLE	0	44	DOMESTIC
13965	4/22/1976	HUBER, RICHARD	41.03028	-76.33806	225	OPEN HOLE	0	31	DOMESTIC
13966	10/1/1977	COLUMBIA DEV. AUTH.	41.03083	-76.33028	25		0	0	UNUSED
13967	1/1/1930		41.03111	-76.42472	145	OPEN HOLE	20	30	DOMESTIC
13968	10/9/1980	U.S. GEOL. SURVEY	41.03250	-76.30250	68	PERFORATED OR SLOTTED	0	33	UNUSED
13969	6/13/1979	HAUSE, WALTER	41.03250	-76.32528	80	OPEN HOLE	0	50	DOMESTIC
13970	10/23/1973	HORECK, JOHN	41.03306	-76.32417	100	OPEN HOLE	7	0	DOMESTIC
13971	8/31/1966	TURNER, CHARLES A	41.03444	-76.47528	255	OPEN HOLE	2	67	DOMESTIC
13972	10/7/1980	U.S. GEOL. SURVEY	41.03667	-76.29722	200	OPEN HOLE	0	28	OTHER
13973	1/1/1978	BAFILE, BENARD	41.03778	-76.37917	174	OPEN HOLE	4	37	DOMESTIC
13975		BOTKE, WILLIAM	41.04083	-76.41472	200	UNKNOWN	70	0	DOMESTIC
13976	10/13/1980	U.S. GEOL. SURVEY	41.04167	-76.27083	53	PERFORATED OR SLOTTED	6	0	UNUSED
13977		WERTMAN HAROLD	41.04222	-76.28889	30	UNKNOWN	0	18	DOMESTIC
13978	10/10/1980	U.S. GEOL. SURVEY	41.04333	-76.27139	300	OPEN HOLE	0	38	OTHER
13979	2/18/1976	BRIAR HTS. LODGE	41.04389	-76.30722	414	OPEN HOLE	200	19	COMMERCIAL
13980	1/1/1971	MIFFLIN TWP WATER	41.04500	-76.29306	62	GRAVEL PACK W/ SCREEN	0	30	PUBLIC SUPPLY
13980	1/1/1971	MIFFLIN TWP WATER	41.04500	-76.29306	62	OPEN HOLE	0	30	PUBLIC SUPPLY
13981	4/9/1970	SITLER, ARDEN	41.04917	-76.34056	175	OPEN HOLE	8	0	DOMESTIC
13982	1/1/1977	PENNDOT	41.05167	-76.23111	0		0	0	UNUSED
13983	1/1/1977	PENNDOT	41.05167	-76.23111	0		0	0	UNUSED
13984	1/1/1977	PENNDOT	41.05194	-76.23139	0	UNKNOWN	0	0	UNUSED
13985	1/1/1977	PENNDOT	41.05222	-76.23167	0	UNKNOWN	0	0	UNUSED
13986	1/1/1977	PENNDOT	41.05222	-76.23167	0	UNKNOWN	0	0	UNUSED
13987	11/28/1972	ALLEY, JOSEPH E	41.05222	-76.26722	75	OPEN HOLE	0	22	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
13988	1/1/1977	PENNDOT	41.05250	-76.23194	0	UNKNOWN	0	0	UNUSED
13989	1/1/1977	PENNDOT	41.05278	-76.23222	0	UNKNOWN	0	0	UNUSED
13990	1/1/1977	PENNDOT	41.05333	-76.23278	0	UNKNOWN	0	0	UNUSED
13991	1/1/1977	PENNDOT	41.05361	-76.23278	0	UNKNOWN	0	0	UNUSED
13992	1/1/1977	PENNDOT	41.05389	-76.23306	0	UNKNOWN	0	0	UNUSED
13993	1/1/1977	PENNDOT	41.05417	-76.23333	0	UNKNOWN	0	0	UNUSED
13994	1/1/1977	PENNDOT	41.05417	-76.23333	0	UNKNOWN	0	0	UNUSED
13995	1/1/1971	POWLUS	41.05556	-76.32722	40	OPEN END	0	9	DOMESTIC
13996	2/7/1971	HORNBERGER C.	41.05611	-76.32917	50	OPEN HOLE	20	0	DOMESTIC
13997	2/16/1971	POWLUS, JAMES	41.05667	-76.32917	50	UNKNOWN	20	12	DOMESTIC
13998	10/17/1967	TRAUGH JESSE G	41.05806	-76.30167	93	OPEN HOLE	0	7	DOMESTIC
13999	1/1/1958	STRAUSSER CARL	41.05889	-76.30167	85	OPEN HOLE	0	16	DOMESTIC
14000	4/28/1975	DIBATTISTA JOHN	41.06028	-76.25000	100	OPEN HOLE	10	36	DOMESTIC
14001	5/6/1967	KULF, NELSON	41.06028	-76.32861	65	UNKNOWN	10	28	DOMESTIC
14002	8/13/1974	ROBBINS, LILLIAN	41.06111	-76.30250	75	OPEN HOLE	20	15	DOMESTIC
14003	5/10/1967	DENNIS, BERTIE	41.06194	-76.31889	46	UNKNOWN	9	7	DOMESTIC
14004	11/4/1972	KELCHNER, RALPH H	41.06306	-76.30056	75	OPEN HOLE	14	23	DOMESTIC
14005	4/21/1976	SHEATLER	41.06417	-76.32861	150	OPEN HOLE	15	0	DOMESTIC
14006	1/1/1971	SHEATLER, CHARLES	41.06444	-76.33083	100	OPEN HOLE	0	27	UNUSED
14007	1/1/1976	SHEATLER CHARLES L	41.06444	-76.33083	200	OPEN HOLE	0	36	DOMESTIC
14008	11/11/1976	WEAVER	41.06528	-76.32889	100	OPEN HOLE	8	0	DOMESTIC
14009	8/18/1972	WEAVER, ORVIL	41.06583	-76.32833	100	OPEN HOLE	5	50	DOMESTIC
14010	7/25/1972	WEAVER, ORVIL	41.06583	-76.32889	75	OPEN HOLE	6	8	DOMESTIC
14011	1/1/1981	MAGRONE, JOHN	41.06806	-76.25667	30	WALLED	0	23	UNUSED
14012	9/25/1979	MAGRONE, JOHN	41.06806	-76.25667	67	OPEN HOLE	0	28	DOMESTIC
14013	7/31/1975	SLOVIC	41.06806	-76.31417	100	OPEN HOLE	0	36	DOMESTIC
14014	6/1/1977	TYSON, D.	41.06889	-76.30444	150	OPEN HOLE	0	51	DOMESTIC
14015		COX, JAMES	41.06944	-76.38861	0	OPEN HOLE	0	18	DOMESTIC
14016	6/13/1967	ESKIN	41.07444	-76.26306	133	OPEN HOLE	10	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14017	8/16/1968	HECKMAN, DREW	41.07667	-76.24333	75	OPEN HOLE	12	0	DOMESTIC
14018	11/1/1978	KISHBAUGH, RANDALL C	41.07694	-76.24722	150	OPEN HOLE	0	31	DOMESTIC
14019	10/14/1975	KISHBAUGH	41.07750	-76.24750	100	OPEN HOLE	0	44	DOMESTIC
14020	8/10/1972	KECK, THELMA	41.08306	-76.29889	125	OPEN HOLE	7	48	DOMESTIC
14021	5/26/1971	FINK, EDWARD	41.08333	-76.34722	100	OPEN HOLE	15	25	DOMESTIC
14022		NORPOLE	41.08972	-76.40778	33	UNKNOWN	50	13	DOMESTIC
14023	7/20/1968	CLEAVER, FRED, JR.	41.10111	-76.37889	47	OPEN HOLE	20	18	DOMESTIC
14024	1/1/1980	HEAPS, TED	41.10306	-76.55278	500	OPEN HOLE	1	18	DOMESTIC
14025	7/1/1967	STERNER, RUTH	41.11111	-76.36278	28	UNKNOWN	20	10	DOMESTIC
14026	1/1/1969	CAMP LOUISE	41.11778	-76.27083	0		0	32	DOMESTIC
14027		MILLVILLE WATER AUTH	41.12111	-76.53500	12	WALLED	60	0	PUBLIC SUPPLY
14028			41.12222	-76.53472	10	WALLED	0	0	PUBLIC SUPPLY
14029	1/1/1953	MILLVILLE WATER AUTH	41.12306	-76.53472	500	OPEN HOLE	60	0	PUBLIC SUPPLY
14030	10/6/1930	VERNON BANGS	41.13583	-76.47528	90	OPEN HOLE	3	20	DOMESTIC
14031	10/4/1930	BENTON WATER SUPPLY CO.	41.19472	-76.39139	10	WALLED	830	5	PUBLIC SUPPLY
14032	4/1/1923		41.19639	-76.38278	44	OPEN END	140	10	INDUSTRIAL
14033		CATAWISSA WATER AUTH	40.94972	-76.45028	375	OPEN HOLE	0	14	PUBLIC SUPPLY
14034		SLUSSER WILLIAM	40.98028	-76.42806	120	OPEN HOLE	7	43	DOMESTIC
14035	10/1/1981	SATO, HITOSHI	40.98139	-76.42556	151	OPEN HOLE	20	0	DOMESTIC
14036	10/18/1966	LAIDACKER, CRAIG	41.01722	-76.49917	63	OPEN HOLE	10	34	DOMESTIC
14037		WELLIVER CARL	41.03056	-76.47778	0	WALLED	0	3	DOMESTIC
14038	4/21/1969	CAMP LOUISE	41.11556	-76.26972	150	OPEN HOLE	8	0	DOMESTIC
14039		WRIGHT, JERRE	41.11833	-76.53000	512	UNKNOWN	0	6	UNUSED
14040		LUPINI	41.03694	-76.28694	65	UNKNOWN	0	53	DOMESTIC
14041	11/18/1974	BELL TEL., CO.	40.99694	-76.48472	350	OPEN HOLE	0	-2	COMMERCIAL
14042	1/1/1977	MCGINLEY, WILLIAM	40.99694	-76.51722	125	UNKNOWN	0	30	DOMESTIC
14043	1/1/1974	GIRTON, KENNETH	40.99694	-76.55361	115	UNKNOWN	0	0	DOMESTIC
14044	1/1/1980	FRITZ, JEFF	40.99722	-76.48167	125	OPEN HOLE	5	13	DOMESTIC
14045	1/1/1969	MOUREY, BEN	40.99833	-76.53361	190	UNKNOWN	0	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14046	1/4/1967	WONDERVIEW WATER CO.	40.99861	-76.41000	395	OPEN HOLE	30	35	PUBLIC SUPPLY
14047		KAWNEER, INC.	40.99861	-76.43778	355	OPEN HOLE	20	30	INDUSTRIAL
14048	8/1/1980	ARCO	40.99917	-76.46528	30	UNKNOWN	10	20	UNUSED
14049	8/1/1980	ARCO	40.99917	-76.46528	68	UNKNOWN	175	19	UNUSED
14050	12/19/1966	KAWNEER, INC.	41.00000	-76.43833	415	OPEN HOLE	0	7	INDUSTRIAL
14051		COOMBS, WILLIAM	41.00028	-76.44889	360	OPEN HOLE	0	22	COMMERCIAL
14051		COOMBS, WILLIAM	41.00028	-76.44889	360	UNKNOWN	0	22	COMMERCIAL
14052		HOWERS	41.00278	-76.46389	18	WALLED	0	11	DOMESTIC
14053	12/8/1966	MOWERY, CY	41.00667	-76.23444	85	OPEN HOLE	30	45	DOMESTIC
14054	6/1/1977	DIEHL, B.	41.00694	-76.31389	150	OPEN HOLE	5	0	DOMESTIC
14055	5/23/1966	PENNDOT	41.00778	-76.25194	80	UNKNOWN	30	32	DOMESTIC
14056	6/1/1977	DIEHL, PETE	41.00778	-76.31361	165	OPEN HOLE	0	48	DOMESTIC
14057	1/1/1973	SYNDER, R. D	41.00806	-76.52250	147	UNKNOWN	0	27	DOMESTIC
14058	1/1/1973	SNYDER R.	41.00833	-76.52194	147	UNKNOWN	0	27	DOMESTIC
14059	6/23/1970	U.S. GEOL. SURVEY	41.00917	-76.44694	282	UNKNOWN	0	84	UNUSED
14060	6/8/1966	PENNDOT	41.00972	-76.24806	80	OPEN HOLE	50	7	DOMESTIC
14061	4/23/1969	HASKELL, KENNETH	41.01000	-76.24333	75	OPEN HOLE	30	0	DOMESTIC
14062		MIFFLIN TWP. WATER	41.01139	-76.30306	310	OPEN HOLE	7	43	PUBLIC SUPPLY
14063	4/1/1978	BREISCH, G.	41.01194	-76.35250	200	OPEN HOLE	6	0	DOMESTIC
14064		LIBERTY CHEVROLET	41.01194	-76.41611	0	OPEN HOLE	20	11	DOMESTIC
14065	4/20/1976	SCHELL, LEE	41.01278	-76.23611	125	OPEN HOLE	22	40	DOMESTIC
14066	1/1/1981	GRANT, MIKE	41.01306	-76.23472	300	UNKNOWN	0	67	DOMESTIC
14067	3/1/1977	BOBRASKI, MICHAEL	41.01361	-76.23417	135	OPEN HOLE	10	60	DOMESTIC
14068	5/10/1971	DERR, GORDON	41.01417	-76.26361	150	OPEN HOLE	20	0	DOMESTIC
14069	6/1/1981	MARIANO CONST. CO.	41.01417	-76.41806	73	UNKNOWN	20	0	DOMESTIC
14070	8/14/1979	U.S. GEOL. SURVEY	41.01528	-76.31000	0	UNKNOWN	0	0	UNUSED
14071	2/14/1979	U.S. RADIUM CORP	41.01583	-76.37611	35	PERFORATED OR SLOTTED	0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14072	2/20/1979	U.S. RADIUM CORP.	41.01583	-76.37611	35	PERFORATED OR SLOTTED	0	0	UNUSED
14073	5/2/1973	QUALITY INN	41.01611	-76.49250	179	OPEN HOLE	0	69	COMMERCIAL
14074	1/1/1966	WAGNER, EUGENE	41.01639	-76.53917	300	UNKNOWN	0	49	COMMERCIAL
14075	6/18/1974	PAYNE, ARLEN	41.01833	-76.24639	165	OPEN HOLE	10	0	DOMESTIC
14076	5/18/1970	FRACE, GARY	41.01833	-76.26333	150	OPEN HOLE	6	0	DOMESTIC
14077		WILKES POOLS	41.01917	-76.27306	0	OPEN HOLE	80	0	COMMERCIAL
14078	4/22/1970	WHITMORE, GLEN	41.01944	-76.25139	90	OPEN HOLE	10	0	DOMESTIC
14079	8/10/1967	BLOOMSBURG WATER CO.	41.01944	-76.36861	500	OPEN HOLE	0	28	PUBLIC SUPPLY
14080		MAUSTELLER E.	41.01944	-76.50139	65	UNKNOWN	0	54	DOMESTIC
14081	12/5/1972	LEVAN, JOSEPH	41.02028	-76.50194	75	OPEN HOLE	17	0	DOMESTIC
14082	10/10/1974	HYDE, JAMES	41.02139	-76.27417	175	OPEN HOLE	0	64	DOMESTIC
14083	1/1/1979	BUCH, HAROLD	41.02139	-76.43000	300	OPEN HOLE	0	110	DOMESTIC
14084	11/1/1981	SCERBO MEDICAL CENTE	41.02222	-76.42167	198	OPEN HOLE	15	0	DOMESTIC
14085	8/17/1966	BLOOMSBURG CARPET	41.02278	-76.37417	95	UNKNOWN	40	0	INDUSTRIAL
14086	8/14/1979	U.S. GEOL SURVEY	41.02472	-76.32111	37	SCREEN	0	20	UNUSED
14087		JONES, WILLIAM R	41.02472	-76.35361	0		0	20	DOMESTIC
14088		SWEENY SCOTT	41.02500	-76.34528	34	WALLED	0	34	DOMESTIC
14089		SWEENY SCOTT	41.02500	-76.34528	110	OPEN HOLE	0	38	DOMESTIC
14090	1/1/1978	EYERLY, PAUL	41.02528	-76.42722	315	OPEN HOLE	2	90	DOMESTIC
14091		VANCE, JAMES	41.02556	-76.42806	0	OPEN HOLE	0	57	DOMESTIC
14092	1/16/1974	COLUMBIA COUNTY 7	41.02583	-76.46222	125	OPEN HOLE	15	0	UNUSED
14093	7/26/1968	KEEFER, CHARMAINE	41.02611	-76.31056	55	OPEN HOLE	20	19	DOMESTIC
14094		SWISHER, GARY E	41.02611	-76.35444	0		0	19	DOMESTIC
14095	1/1/1963	CHAMPION VALLEY FMS.	41.02694	-76.35028	550	UNKNOWN	250	0	INDUSTRIAL
14096		RUPERT, HELEN	41.02722	-76.33806	120	OPEN HOLE	0	32	DOMESTIC
14097		RUPERT HELEN	41.02722	-76.33806	33	UNKNOWN	0	21	DOMESTIC
14098	1/1/1963	CHAMPION VALLEY FMS	41.02722	-76.34944	268	UNKNOWN	80	48	INDUSTRIAL
14099	1/1/1964	CHAMPION VALLEY FMS	41.02722	-76.35056	600	UNKNOWN	440	0	INDUSTRIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14100	7/1/1981	CHAMPION VALLEY FMS	41.02722	-76.35389	155	OPEN HOLE	0	27	INDUSTRIAL
14101	1/18/1974	COLUMBIA COUNTY 8	41.02722	-76.45472	200	UNKNOWN	0	78	UNUSED
14102	6/7/1968	CHAMPION VALLEY FMS	41.02750	-76.35056	500	UNKNOWN	218	25	INDUSTRIAL
14103	8/18/1981	CHAMPION VALLEY FMS	41.02750	-76.35389	570	UNKNOWN	0	16	INDUSTRIAL
14104		COLUMBIA COUNTY 4	41.02750	-76.45722	0		9	102	DOMESTIC
14105		BAKER TRAILER PK	41.02806	-76.36000	0		0	14	PUBLIC SUPPLY
14106		MAGEE JAMES	41.02806	-76.40194	73	OPEN HOLE	0	43	DOMESTIC
14107	1/1/1979	HOCK, GARY	41.02833	-76.46306	0	OPEN HOLE	0	25	DOMESTIC
14108		PA. POWER AND LIGHT	41.02861	-76.41139	200	OPEN HOLE	13	6	COMMERCIAL
14109	1/1/1929	LIGHTSTRT. GRANGE	41.02972	-76.42472	145	UNKNOWN	3	30	DOMESTIC
14110	1/15/1974	COLUMBIA COUNTY 5	41.02972	-76.45194	170	UNKNOWN	0	54	UNUSED
14111	1/11/1974	COLUMBIA COUNTY 6	41.02972	-76.45889	190	UNKNOWN	11	114	UNUSED
14112		KRUM, ROBERT	41.03083	-76.32806	54	OPEN HOLE	0	0	DOMESTIC
14113	1/24/1974	COLUMBIA COUNTY 1	41.03111	-76.45389	220	UNKNOWN	0	120	UNUSED
14114	1/1/1980	SHAFFER, THOMAS	41.03111	-76.46139	0		0	64	DOMESTIC
14115	1/10/1973	PFLEEGOR, BARBARA	41.03194	-76.46333	31	OPEN HOLE	0	6	DOMESTIC
14116		HUDELSON FOSTER	41.03250	-76.30306	35	UNKNOWN	0	32	DOMESTIC
14117	12/18/1967	SHRADER, DON	41.03250	-76.30333	120	OPEN HOLE	12	0	DOMESTIC
14118	10/11/1977	COLUMBIA DEV. AUTH.	41.03278	-76.33361	25	UNKNOWN	0	0	UNUSED
14119	8/15/1979	U.S. GEOL. SURVEY	41.03306	-76.31111	47	SCREEN	0	24	UNUSED
14120	8/17/1979	U.S. GEOL. SURVEY	41.03361	-76.30194	0	UNKNOWN	0	0	UNUSED
14121	11/22/1974	YODER, RICHARD L	41.03389	-76.22972	100	OPEN HOLE	6	0	DOMESTIC
14122		LUPINI R.	41.03389	-76.30250	69	OPEN HOLE	5	39	DOMESTIC
14123	1/1/1970	COLUMBIA CO. DEV.	41.03444	-76.32583	248	UNKNOWN	0	32	INDUSTRIAL
14124	10/7/1977	DICKSON D.	41.03472	-76.35833	173	OPEN HOLE	0	102	DOMESTIC
14125		HOCK	41.03472	-76.40472	0	OPEN HOLE	0	14	DOMESTIC
14126		HOCK	41.03472	-76.40722	0	OPEN HOLE	0	38	DOMESTIC
14127	8/15/1979	U.S. GEOL. SURVEY	41.03528	-76.30389	0	OTHER	0	0	UNUSED
14128	8/16/1979	U.S. GEOL. SURVEY	41.03528	-76.30583	0	OTHER	0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14129	10/5/1977	COLUMBIA DEV. AUTH.	41.03528	-76.32083	25	UNKNOWN	0	0	UNUSED
14130	1/1/1970	COLUMBIA CO. DEV.	41.03528	-76.32583	273	UNKNOWN	85	23	INDUSTRIAL
14131	10/12/1977	COLUMBIA DEV. AUTH.	41.03639	-76.32194	25	UNKNOWN	0	0	UNUSED
14132	8/16/1979	U.S. GEOL. SURVEY	41.03694	-76.29528	62	SCREEN	0	22	UNUSED
14133	1/1/1950	SCENIC KNOLLS	41.03722	-76.33028	190	OPEN HOLE	8	0	PUBLIC SUPPLY
14134	1/1/1956	THOMAS, WILLARD	41.03722	-76.42444	68	UNKNOWN	0	0	DOMESTIC
14135	1/1/1964	SCENIC KNOLLS	41.03750	-76.33028	402	UNKNOWN	5	0	PUBLIC SUPPLY
14136	6/12/1973	SCHULTZ ELECTROPLT	41.03778	-76.36889	390	OPEN HOLE	9	40	INDUSTRIAL
14137	6/14/1973	SHULTZ ELECTROPLT	41.03778	-76.36889	495	OPEN HOLE	5	40	INDUSTRIAL
14138	1/1/1940	MICHAEL, ROLAND	41.03889	-76.37778	115	OPEN HOLE	0	45	DOMESTIC
14139		NEYHARD ROBERT	41.03917	-76.36361	215	OPEN HOLE	15	50	DOMESTIC
14140	1/5/1973	THOMAS, DONALD	41.03944	-76.41444	151	OPEN HOLE	14	0	DOMESTIC
14141		BEERS, ROBERT	41.03972	-76.42889	66	UNKNOWN	30	5	DOMESTIC
14142	1/1/1960	FRANZ, E.O., SR.	41.04028	-76.38028	0		0	0	DOMESTIC
14143		SCENIC KNOLLS	41.04056	-76.32556	415	OPEN HOLE	8	80	PUBLIC SUPPLY
14144	1/1/1978	TRUESDALE, STEVE	41.04194	-76.41694	100	PERFORATED OR SLOTTED	0	44	DOMESTIC
14145	1/25/1975	WERTMAN, HAROLD	41.04222	-76.28889	70	UNKNOWN	0	17	DOMESTIC
14146	5/1/1973	STAUFFER, EVELYN	41.04222	-76.36917	120	OPEN HOLE	16	0	DOMESTIC
14147	1/6/1975	KINGSTON	41.04250	-76.41583	125	OPEN HOLE	8	0	DOMESTIC
14148	3/17/1969	ANDREZZI, LEW	41.04472	-76.23139	125	OPEN HOLE	10	0	DOMESTIC
14149	4/3/1973	MIFFLIN TWP. WATER	41.04500	-76.29417	63	GRAVEL PACK W/ SCREEN	70	22	PUBLIC SUPPLY
14149	4/3/1973	MIFFLIN TWP. WATER	41.04500	-76.29417	63	UNKNOWN	70	22	PUBLIC SUPPLY
14150	8/17/1949	U.S. GEOL. SURVEY	41.04583	-76.29472	0	UNKNOWN	0	0	UNUSED
14151	1/1/1978	URLICH	41.04583	-76.56278	175	OPEN HOLE	6	40	DOMESTIC
14152	10/7/1980	KRUM, ROBERT	41.04750	-76.32806	120	OPEN HOLE	6	0	DOMESTIC
14153	5/31/1975	RUCKLE, ROY	41.04778	-76.52917	30	OPEN HOLE	1	13	DOMESTIC
14154	4/10/1977	WENNER, HARRY	41.04806	-76.40583	223	OPEN HOLE	0	40	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14155	10/1/1960	RUCKLE, ROY	41.04806	-76.52750	80	OPEN HOLE	0	0	DOMESTIC
14156	8/24/1979	U.S. GEOL. SURVEY	41.04833	-76.31306	0	UNKNOWN	0	0	UNUSED
14157	8/29/1968	ECKROTE, ROBERT E	41.04861	-76.37083	47	OPEN HOLE	20	18	DOMESTIC
14158	10/1/1978	RUCKLE, ROY	41.04889	-76.52778	40	OPEN HOLE	0	0	DOMESTIC
14159	1/1/1969	HANEY, B. FRED	41.04944	-76.35639	81	OPEN HOLE	0	25	DOMESTIC
14160	8/17/1979	U.S. GEOL. SURVEY	41.05028	-76.27917	0	UNKNOWN	0	0	UNUSED
14161	4/13/1967	ST. PETERS CHURCH	41.05028	-76.30444	175	OPEN HOLE	0	114	DOMESTIC
14162	1/1/1981	SAM'S AUTO SALES	41.05139	-76.25861	0		0	38	DOMESTIC
14163	1/1/1957	KEYSTONE WATER CO.	41.05194	-76.25889	473	UNKNOWN	0	37	PUBLIC SUPPLY
14164	1/1/1976	THOMAS, ROBERT E	41.05222	-76.38944	125	OPEN HOLE	0	51	DOMESTIC
14165	1/1/1957	KEYSTONE WATER CO.	41.05444	-76.23250	87	OPEN HOLE	1300	32	PUBLIC SUPPLY
14166	6/24/1957	KEYSTONE WATER CO.	41.05444	-76.23278	90	UNKNOWN	1200	31	PUBLIC SUPPLY
14167	3/29/1957	KEYSTONE WATER CO.	41.05500	-76.23278	160	OPEN HOLE	1300	32	PUBLIC SUPPLY
14168	3/16/1979	WHITMEYER, R.	41.05500	-76.40028	400	OPEN HOLE	1	0	DOMESTIC
14169		SANDLER	41.05639	-76.52111	240	OPEN HOLE	0	37	DOMESTIC
14170	5/1/1967	DIEHL, MYRON M	41.05806	-76.58389	55	OPEN HOLE	6	19	DOMESTIC
14171	3/20/1975	ACORNLEY, GEORGE	41.05833	-76.36028	125	OPEN HOLE	0	29	DOMESTIC
14172	4/23/1973	BOWERS, DAVID	41.05833	-76.54444	104	OPEN HOLE	6	0	DOMESTIC
14173		COLUMBIA ASPHALT CO	41.06111	-76.49444	0		0	61	COMMERCIAL
14174		COLUMBIA ASPHALT CO	41.06111	-76.49583	0		0	29	DOMESTIC
14175	3/12/1957	CONSOLIDATED CIGAR CORP	41.06139	-76.24083	284	OPEN HOLE	200	0	AIR CONDITIONING
14176	4/11/1957	CONSOLIDATED CIGAR CORP	41.06139	-76.24194	151	OPEN HOLE	0	0	UNUSED
14177	8/31/1968	WOLFE, GERALD	41.06167	-76.32444	40	OPEN HOLE	10	2	DOMESTIC
14178		ORTMAN	41.06167	-76.52778	0	UNKNOWN	0	31	DOMESTIC
14179		ORTMAN, DAVE	41.06194	-76.52944	0	UNKNOWN	2	0	DOMESTIC
14180	1/1/1971	HOCK, CLAIR	41.06222	-76.49389	85	OPEN HOLE	0	9	UNUSED
14181	8/20/1978	KILE, R.	41.06278	-76.41972	248	OPEN HOLE	20	0	DOMESTIC
14182	8/21/1972	KRUMHELLR, JUDY	41.06278	-76.43222	61	OPEN HOLE	8	0	DOMESTIC
14183	10/1/1973	BRIAR CREEK PARK	41.06306	-76.28583	250	OPEN HOLE	0	112	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14184	1/1/1972	ROWE, JACK	41.06306	-76.52722	72	OPEN HOLE	9	0	DOMESTIC
14185	7/17/1977	DUTCH HILL CHURCH	41.06306	-76.54639	142	OPEN HOLE	0	50	DOMESTIC
14186	4/30/1967	FUNK, HOWARD	41.06444	-76.46944	127	OPEN HOLE	10	72	DOMESTIC
14187	8/24/1977	CAMPBELL, ED	41.06472	-76.43194	193	OPEN HOLE	8	0	DOMESTIC
14188	3/15/1974	GIBNEY GRAIG	41.06556	-76.38750	100	OPEN HOLE	0	7	DOMESTIC
14189	1/1/1969	ECKROTH	41.06583	-76.54861	65	OPEN HOLE	4	0	DOMESTIC
14190	9/23/1972	WHALON, PAUL	41.06583	-76.61667	92	UNKNOWN	6	0	DOMESTIC
14191	1/1/1974	FAUST, R.	41.06722	-76.52083	0		0	0	DOMESTIC
14192	9/1/1978	MILLARD, L.	41.06722	-76.52111	123	OPEN HOLE	10	0	DOMESTIC
14193	4/10/1968	BABICH, JOHN C	41.06778	-76.35500	85	OPEN HOLE	5	15	DOMESTIC
14194	5/16/1967	FESTER, JOHN H	41.06806	-76.29333	115	OPEN HOLE	8	75	DOMESTIC
14195	11/8/1978	YEAGER, STEVE	41.06833	-76.27083	150	OPEN HOLE	10	0	DOMESTIC
14196	8/7/1974	WALTERS, DAVID	41.06917	-76.50028	50	OPEN HOLE	10	8	DOMESTIC
14197		HELM, KENNETH	41.06944	-76.27722	150	OPEN HOLE	7	15	DOMESTIC
14198	8/22/1979	U.S. GEOL. SURVEY	41.06972	-76.42083	0	UNKNOWN	0	0	UNUSED
14199	8/8/1975	CRAWFORD, GEORGE	41.06972	-76.48139	198	OPEN HOLE	0	93	DOMESTIC
14200	4/17/1973	GRASLEY, RODNEY	41.07028	-76.34222	75	OPEN HOLE	0	4	DOMESTIC
14201	8/6/1974	WALTERS, DAVID	41.07056	-76.50028	50	OPEN HOLE	7	0	DOMESTIC
14202	10/18/1966	HAUGH, EDWARD	41.07083	-76.38667	75	OPEN HOLE	8	8	DOMESTIC
14203	6/13/1966	MILLER, DONALD	41.07111	-76.33889	435	OPEN HOLE	0	16	DOMESTIC
14204	1/1/1978	STACKHOUSE	41.07111	-76.51639	0	OPEN HOLE	0	40	DOMESTIC
14205	12/12/1968	DEWALD, ROBERT	41.07250	-76.47028	133	OPEN HOLE	7	65	DOMESTIC
14206		STINE	41.07278	-76.52139	0	OPEN HOLE	0	0	STOCK
14207	11/12/1976	WELSH, JAY	41.07333	-76.26639	125	OPEN HOLE	0	43	DOMESTIC
14208	11/6/1981	CORRELL, WILLIAM E	41.07333	-76.35194	98	OPEN HOLE	20	0	DOMESTIC
14209	9/7/1972	LAWTON, RANDY	41.07417	-76.50972	90	UNKNOWN	8	0	DOMESTIC
14210	6/22/1966	SHANER, CARL	41.07472	-76.47028	175	OPEN HOLE	8	0	DOMESTIC
14211	1/1/1963	STACKHOUSE FRANK	41.07472	-76.51028	123	OPEN HOLE	4	15	DOMESTIC
14212	1/1/1973	STACKHOUSE FRANK	41.07500	-76.50889	123	OPEN HOLE	30	14	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14213	8/2/1974	BARDO, CLUANE E	41.07583	-76.52139	200	OPEN HOLE	0	2	STOCK
14214	12/8/1975	GIRTON, WAYNE R	41.07667	-76.32222	0	OPEN HOLE	3	113	DOMESTIC
14215	1/1/1960	KLINGERMAN BOARDING	41.07667	-76.41667	90	OPEN HOLE	4	15	DOMESTIC
14216	10/13/1973	RAKICH, JOHN	41.07750	-76.32250	200	OPEN HOLE	10	0	DOMESTIC
14217	10/1/1963	ORANGEVILLE WATER CO.	41.07750	-76.41139	465	OPEN HOLE	28	64	PUBLIC SUPPLY
14218	12/5/1975	MUSSELMAN KEITH	41.07778	-76.40056	175	UNKNOWN	7	80	DOMESTIC
14219	11/24/1976	WIKE, CHARLES	41.07889	-76.32250	200	OPEN HOLE	6	0	DOMESTIC
14220	7/9/1974	WALTERS, DAVID	41.07889	-76.49917	56	OPEN HOLE	5	0	DOMESTIC
14221	4/1/1978	YOHEY	41.07917	-76.32667	275	OPEN HOLE	5	0	DOMESTIC
14222	7/11/1966	CYPHERS, JAMES	41.07917	-76.61028	90	OPEN HOLE	4	10	DOMESTIC
14223	11/9/1967	WELLIVER, HARRY	41.08028	-76.47750	134	OPEN HOLE	10	71	DOMESTIC
14224	1/1/1977	ABRAMS, LEWIS	41.08139	-76.28917	90	OPEN HOLE	5	40	DOMESTIC
14225	12/5/1966		41.08250	-76.31056	67	OPEN HOLE	30	20	DOMESTIC
14226	9/1/1978	GROSS, N.	41.08250	-76.48083	170	OPEN HOLE	0	56	DOMESTIC
14227	5/24/1976	RUCKEL, EDWARD	41.08278	-76.33000	275	OPEN HOLE	8	0	DOMESTIC
14228	4/1/1978	MARKLE, ROBERT J	41.08278	-76.35222	125	OPEN HOLE	8	0	DOMESTIC
14229	5/28/1975	ZEISLOFT, STEVE	41.08278	-76.57278	70	OPEN HOLE	6	32	DOMESTIC
14230		ZEISLOFT, DALE	41.08278	-76.57500	420	OPEN HOLE	0	17	DOMESTIC
14231	1/1/1979	KECK, THELMA	41.08306	-76.29889	323	OPEN HOLE	3	0	DOMESTIC
14232	8/8/1974	ZEISLOFT, DONALD	41.08333	-76.57167	123	OPEN HOLE	0	27	DOMESTIC
14233	10/13/1973	NAGLE, ALAN	41.08417	-76.34444	150	OPEN HOLE	0	0	DOMESTIC
14234	6/27/1978	DIETTERICK LESTER	41.08583	-76.35250	80	OPEN END	20	0	DOMESTIC
14235		RICHARDS, REBA	41.08667	-76.22889	0		0	0	DOMESTIC
14236	5/18/1968	DAVIS, RONALD L	41.08722	-76.27667	100	OPEN HOLE	5	0	DOMESTIC
14237	9/12/1974	DAVIS, RONALD L	41.08722	-76.27667	175	OPEN HOLE	8	0	DOMESTIC
14238	8/3/1973	MCMURTRIE, DAVID C	41.08722	-76.31722	200	OPEN HOLE	8	0	DOMESTIC
14239			41.08778	-76.51806	320		0	0	DOMESTIC
14240	8/8/1972	GOWER, ROBERT	41.08861	-76.30028	120	OPEN HOLE	8	0	DOMESTIC
14241	9/1/1980	RISHEL	41.08889	-76.57833	60	OPEN HOLE	0	13	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14242	4/10/1973	O'NEAL, CLARENCE	41.08917	-76.30056	125	OPEN HOLE	6	75	DOMESTIC
14243	11/7/1973	FARRELL, WILLIAM	41.08944	-76.29917	200	OPEN HOLE	5	0	DOMESTIC
14244	4/1/1977	WHITENIGHT DAVID	41.08972	-76.28139	100	OPEN HOLE	6	0	DOMESTIC
14245	7/12/1972	KECK, DOYLE	41.08972	-76.30083	135	OPEN HOLE	10	40	DOMESTIC
14246	5/5/1975	SEELY, LESTER	41.09028	-76.26722	125	OPEN HOLE	8	0	DOMESTIC
14247	8/13/1973	LAUBACH, DAVID	41.09083	-76.30417	100	OPEN HOLE	0	24	DOMESTIC
14248	5/29/1974	ROTHERY	41.09111	-76.25806	100	OPEN HOLE	8	0	DOMESTIC
14249	5/25/1977	SAMSEL, R.	41.08972	-76.30639	150	OPEN HOLE	10	0	DOMESTIC
14250	9/20/1974	PURCELL, FRANCIS	41.09194	-76.46444	76	OPEN HOLE	8	28	DOMESTIC
14251	3/13/1974	SHULTZ	41.09222	-76.30333	125	OPEN HOLE	6	0	DOMESTIC
14252	1/1/1958	HRINDA, JOHN	41.09222	-76.30861	36	UNKNOWN	20	15	DOMESTIC
14253	4/6/1973	ZOPPETTI, MATTHEW	41.09222	-76.41139	64	OPEN END	20	10	DOMESTIC
14254	10/9/1966	HOFFMAN, DRUE C	41.09250	-76.25500	130	OPEN HOLE	7	65	DOMESTIC
14255	3/14/1974	WELSH, JAY	41.09278	-76.30361	125	OPEN HOLE	8	0	DOMESTIC
14256	10/7/1974	WEAVER, CINDY	41.09306	-76.30611	150	OPEN HOLE	8	0	DOMESTIC
14257	9/14/1976	STEVENS, JOHN P	41.09333	-76.27167	125	OPEN HOLE	0	56	DOMESTIC
14258	2/12/1977	KREISCHER, WILLIAM	41.09361	-76.25139	100	OPEN HOLE	6	0	DOMESTIC
14259	1/1/1975	RIVERA, FRANK	41.09361	-76.30361	0		0	28	DOMESTIC
14260	11/8/1972	DIEHL, RODNEY	41.09361	-76.30556	75	OPEN HOLE	8	5	DOMESTIC
14261	2/12/1977	KREISCHER, GARY	41.09389	-76.25056	100	OPEN HOLE	8	0	DOMESTIC
14262	4/1/1978	SHULTZ, JOHN	41.09389	-76.30389	100	OPEN HOLE	8	0	DOMESTIC
14263	8/23/1967	STINER, DALE	41.09417	-76.56389	205	OPEN HOLE	0	26	DOMESTIC
14264	7/19/1974	PERSANS, EDMUND C	41.09583	-76.25833	175	OPEN HOLE	10	0	DOMESTIC
14265	3/26/1974	DENT, RICHARD	41.09583	-76.25917	150	OPEN HOLE	6	0	DOMESTIC
14266	8/15/1974	PENNEBAKER , KARL	41.09583	-76.29667	150	OPEN HOLE	8	0	DOMESTIC
14267	7/24/1975	KERIS, ALEX	41.09611	-76.25833	150	OPEN HOLE	7	0	DOMESTIC
14268	6/12/1970	BELLES, STANLEY	41.09611	-76.27056	75	OPEN HOLE	20	0	DOMESTIC
14269	5/1/1971	ZOPPETTI, MATTHEW	41.09611	-76.41056	45	OPEN END	0	0	DOMESTIC
14270	5/6/1976	SHULTZ, EDWARD A	41.09639	-76.25722	175	OPEN HOLE	6	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14271		RIBBLE, RAYMOND	41.09667	-76.40167	62	UNKNOWN	20	24	DOMESTIC
14272	2/19/1970	COLLINS, EUGENE A	41.09722	-76.25333	185	OPEN HOLE	0	114	DOMESTIC
14273	4/26/1974	SLUSSER, KENNETH	41.09750	-76.27500	175	OPEN HOLE	5	0	DOMESTIC
14274	6/1/1977	BOWER, DARVIN	41.09750	-76.29167	125	OPEN HOLE	6	0	DOMESTIC
14275	8/12/1972	ZOWALSKI, JOSEPH	41.09778	-76.27500	100	OPEN HOLE	7	30	DOMESTIC
14276	11/21/1968	BENJAMIN, ELDON	41.09806	-76.30583	150	OPEN HOLE	0	29	DOMESTIC
14277	6/27/1972	GRASLEY, HALOLD V	41.09861	-76.26389	150	OPEN HOLE	0	76	DOMESTIC
14278		MESSERSMT, RAY	41.10111	-76.37056	120	OPEN HOLE	0	13	DOMESTIC
14279	8/10/1966	PUTERBAUGH RICHARD	41.09944	-76.44167	90	OPEN HOLE	0	27	DOMESTIC
14280	7/18/1972	FULTZ, CURTIS	41.10000	-76.23917	175	OPEN HOLE	16	80	DOMESTIC
14281	8/2/1973	DENT, JACK W	41.10056	-76.24111	150	OPEN HOLE	12	0	DOMESTIC
14282	8/5/1974	HOOK, DAVID G	41.10056	-76.27000	100	OPEN HOLE	10	0	DOMESTIC
14283	8/3/1973	BECK, JACK	41.10222	-76.23611	175	OPEN HOLE	10	0	DOMESTIC
14284	7/29/1974	WILKINSON, LEONARD E	41.10278	-76.27556	125	OPEN HOLE	0	26	DOMESTIC
14285	1/1/1980	HEAPS, TED	41.10278	-76.55278	300	OPEN HOLE	1	0	DOMESTIC
14286	1/1/1980	HEAPS, TED	41.10278	-76.55306	0	OPEN HOLE	1	16	DOMESTIC
14287	9/21/1972	CARRATHERS MARTIN	41.10306	-76.23000	100	OPEN HOLE	8	0	DOMESTIC
14288	9/18/1972	CARRATHERS WILLIAM	41.10389	-76.23056	105	OPEN HOLE	8	65	DOMESTIC
14289	12/4/1978	ECKROTH, R.	41.10389	-76.55694	348	OPEN HOLE	1	0	DOMESTIC
14290	5/14/1973	LYNN, DONALD L	41.10444	-76.26278	100	OPEN HOLE	0	10	DOMESTIC
14291	1/1/1978	S & S AUTO WORKS	41.10583	-76.55194	320	OPEN HOLE	0	10	DOMESTIC
14292	9/12/1973	HESS, KENNETH L	41.10639	-76.25556	100	OPEN HOLE	8	0	DOMESTIC
14293	5/10/1976	TWIN BRIDGES CO PARK	41.10667	-76.35667	50	UNKNOWN	0	8	PUBLIC SUPPLY
14294	1/1/1977	EVELAND, EARL	41.10806	-76.35972	40	OPEN END	15	19	DOMESTIC
14295		STINE	41.10861	-76.51972	0		0	0	DOMESTIC
14296	1/1/1963	DUNCAN, GEORGE	41.11056	-76.47833	68	OPEN HOLE	0	17	DOMESTIC
14297	11/20/1977	DUNCAN, GEORGE	41.11167	-76.47861	130	OPEN HOLE	0	17	DOMESTIC
14298	6/7/1974	LAVER CHAS	41.11222	-76.52278	90	UNKNOWN	6	0	DOMESTIC
14299	10/27/1976	SCHNEEWEIS WILLIAM	41.11222	-76.55389	175	OPEN HOLE	2	8	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14300	11/3/1974	WHITE, JOSEPH	41.11278	-76.41639	207	OPEN HOLE	4	145	DOMESTIC
14301	5/28/1978	NOLAN, JAMES	41.11389	-76.55639	185	OPEN HOLE	0	19	DOMESTIC
14302	1/1/1976	HARVEY, AMOS C	41.11417	-76.43778	100	OPEN HOLE	4	0	DOMESTIC
14303	12/1/1978	CAIN, P.	41.11500	-76.44083	230	OPEN HOLE	5	90	DOMESTIC
14304		BOONE, JERRY	41.11556	-76.52306	130	OPEN HOLE	0	0	DOMESTIC
14305	2/16/1978	STACKHOUSE DALE	41.12083	-76.54250	140	OPEN HOLE	6	30	DOMESTIC
14306	1/1/1980	MILLVILLE WATER AUTH	41.12278	-76.53639	18	WALLED	100	0	PUBLIC SUPPLY
14307	9/5/1967	BROWN, CALVIN	41.12778	-76.42250	51	OPEN HOLE	21	12	DOMESTIC
14309	1/1/1900	MOUNT CARMEL BORO AUTH	40.79861	-76.37750	75	UNKNOWN	20	0	PUBLIC SUPPLY
14310		ROARING CK WATER CO.	40.83611	-76.36500	297	UNKNOWN	275	0	PUBLIC SUPPLY
14311	8/27/1968	ROHRBACH FARMS	40.92694	-76.46167	235	OPEN HOLE	18	0	DOMESTIC
14312	10/4/1979	CATAWISSA WATER AUTH	40.94250	-76.44194	400	OPEN HOLE	55	100	PUBLIC SUPPLY
14313	10/10/1979	CATAWISSA WATER AUTH	40.94333	-76.44278	400	OPEN HOLE	45	42	PUBLIC SUPPLY
14314		SUSQ DAIRY ASSOC	40.94639	-76.45417	200	UNKNOWN	25	0	INDUSTRIAL
14315		CATAWISSA LUMBER CO	40.94889	-76.45583	465	OPEN HOLE	3	0	INDUSTRIAL
14316		CATAWISSA LUMBER CO	40.94889	-76.45667	500	OPEN HOLE	3	78	INDUSTRIAL
14317		CATAWISSA WATER AUTH	40.94944	-76.45056	275	OPEN HOLE	17	12	PUBLIC SUPPLY
14318		CATAWISSA WATER AUTH	40.95000	-76.45000	205	OPEN HOLE	0	11	PUBLIC SUPPLY
14319		CATAWISSA WATER AUTH	40.95083	-76.45139	448	OPEN HOLE	100	0	PUBLIC SUPPLY
14320		CATAWISSA WATER AUTH	40.95083	-76.45056	250	OPEN HOLE	55	0	PUBLIC SUPPLY
14321	2/1/1981	CATAWISSA BOTTLING	40.95278	-76.45861	440	UNKNOWN	40	32	INDUSTRIAL
14322		KARNS CHARLES	40.95389	-76.48278	82	OPEN HOLE	0	33	DOMESTIC
14323	1/1/1960	DIEHL, W.	40.97056	-76.50528	303	UNKNOWN	1	68	DOMESTIC
14324		DEUSSEN, MILDRED	40.97250	-76.49222	0	OPEN HOLE	0	32	DOMESTIC
14325		BREECH, PIERCE L	40.97306	-76.45806	160		0	66	DOMESTIC
14326	7/1/1977	LYCOMING SAND CO.	40.97361	-76.52944	150	OPEN HOLE	10	0	DOMESTIC
14327	6/7/1968	GROSS, RAY	40.97444	-76.52139	52	OPEN HOLE	9	15	DOMESTIC
14328	1/1/1969	FETTERMAN, R.	40.97556	-76.50361	98	OPEN HOLE	0	20	DOMESTIC
14329	10/1/1968	BERGER, WILLIAM	40.97583	-76.51972	81	UNKNOWN	16	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
14330	7/5/1968	STREATER, J. E	40.98139	-76.46778	500	OPEN HOLE	250	11	IRRIGATION
14331	8/31/1979	A AND S AUTO BODY	40.98222	-76.48417	123	OPEN HOLE	15	5	DOMESTIC
14332		CREASY CHARLES W	40.98306	-76.44667	0	OPEN HOLE	0	32	DOMESTIC
14333	1/1/1973	YOUNG, FAY	40.98333	-76.44667	300	OPEN HOLE	0	32	DOMESTIC
14334	11/1/1977	ROTH, JAMES	40.98333	-76.51417	95	OPEN HOLE	5	10	DOMESTIC
14335		WINTERSTN, L L	40.98583	-76.48056	86	OPEN HOLE	30	17	DOMESTIC
14336		WINTERSTN, L. L	40.98639	-76.47972	119	UNKNOWN	12	0	DOMESTIC
14337	8/21/1979	U.S. GEOL. SURVEY	40.98833	-76.47472	0	UNKNOWN	0	0	UNUSED
14338	1/1/1972	GEORGE, BENARD	40.99389	-76.51611	175	UNKNOWN	19	0	DOMESTIC
14339		WONDERVIEW WATER CO.	40.99444	-76.41556	375	UNKNOWN	15	45	PUBLIC SUPPLY
14340	1/1/1977	WONDERVIEW WATER CO.	40.99444	-76.41556	410	OPEN HOLE	30	0	PUBLIC SUPPLY
14341	5/3/1946	BLOOMSBURG PACKING CO	40.99667	-76.44944	525	UNKNOWN	225	7	INDUSTRIAL
25174	8/20/1978	DIXON, P.	40.82944	-75.87278	155	OPEN HOLE	12	40	DOMESTIC
25175		BONNER NEIL	40.91639	-76.02889	950	UNKNOWN	0	1	UNUSED
25176			40.91722	-75.98944	425		0	0	
25177			40.91889	-76.02611	500		0	0	
25178			40.91917	-75.90194	0		0	0	UNUSED
25179	1/1/1948	RYAN,HERBERT	40.92222	-75.99556	66	UNKNOWN	0	0	DOMESTIC
25180	1/1/1938	MCKITO,ANDREW	40.92389	-75.99528	83	UNKNOWN	0	0	DOMESTIC
25181		WYOMING VALLEY WATER	40.92639	-76.02583	0		0	0	PUBLIC SUPPLY
25182	1/1/1974	SHAVERTOWN WATER CO.	40.93139	-76.13472	212	OPEN HOLE	95	0	PUBLIC SUPPLY
25183		PHILLIPS,GILES	40.93500	-75.99167	100	UNKNOWN	65	6	DOMESTIC
25184	1/1/1963	KAMA CORP	40.93750	-75.96583	133	OPEN HOLE	0	0	INDUSTRIAL
25185	11/1/1976	PETER STORASKA	40.93861	-76.13861	140	OPEN HOLE	20	25	DOMESTIC
25186	1/1/1926	KEMERSAL,MR.	40.94000	-76.16806	65	UNKNOWN	25	38	DOMESTIC
25187	1/1/1926	BROOKS,A.W.	40.94083	-76.17333	438	UNKNOWN	33	80	DOMESTIC
25188			40.94139	-76.14583	70	UNKNOWN	25	15	DOMESTIC
25189	11/1/1977	M. BERTOLDI	40.94222	-76.13861	140	OPEN HOLE	30	10	DOMESTIC
25190		ENAMEL,MR.	40.94250	-76.14222	110	UNKNOWN	10	50	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25191	6/24/1977	JOSEPH MARSHALL	40.94389	-76.10333	180	OPEN HOLE	25	20	DOMESTIC
25192			40.94667	-76.17861	0		0	0	UNUSED
25193			40.94833	-76.17972	0		0	0	UNUSED
25194			40.96083	-76.03861	0		0	0	UNUSED
25195		WYOMING VALLEY WATER	40.96500	-75.98111	0		150	0	UNUSED
25196			40.96528	-76.09167	0		0	0	UNUSED
25197			40.96861	-75.89806	0		0	0	UNUSED
25198	8/1/1977	PLEBAN, W.	40.96917	-76.09500	200	OPEN HOLE	0	41	DOMESTIC
25199	4/1/1978	R. SINEX	40.96944	-76.05611	525	OPEN HOLE	5	160	DOMESTIC
25200			40.97000	-75.89722	0		0	0	UNUSED
25201			40.97000	-75.89750	0		0	0	UNUSED
25202			40.97000	-76.10833	0		0	0	UNUSED
25203	12/1/1978	R. ROCK	40.97194	-76.09750	180	OPEN HOLE	25	70	DOMESTIC
25204	1/1/1915	JEDDO HIGHLAND COAL	40.97222	-75.95417	567	UNKNOWN	160	0	INDUSTRIAL
25205			40.97250	-76.04833	0		0	0	UNUSED
25206	1/1/1915	JEDDO HIGHLAND COAL	40.97389	-75.95194	540	UNKNOWN	120	0	INDUSTRIAL
25207	9/6/1978	CHARLES MANCINKO	40.97389	-76.06417	175	OPEN HOLE	8	0	DOMESTIC
25208	8/6/1980	D. KORMONICK	40.97528	-76.10139	275	OPEN HOLE	5	0	DOMESTIC
25209	6/1/1981	DELITE MOTEL	40.97611	-75.98056	260	OPEN HOLE	35	43	COMMERCIAL
25210	12/1/1977	A. STASHEFSKI	40.97694	-76.05639	140	OPEN HOLE	0	5	DOMESTIC
25211	10/1/1978	E. WILLIAMS	40.97750	-76.05250	160	OPEN HOLE	25	21	DOMESTIC
25212	4/1/1980	P. ABADESSA	40.97944	-76.01000	440	OPEN HOLE	25	40	DOMESTIC
25213	4/1/1978	W. KNELLEY	40.97944	-76.17861	360	OPEN HOLE	40	50	DOMESTIC
25214	5/1/1980	A. PAVLICK	40.98000	-76.01028	360	OPEN HOLE	0	64	DOMESTIC
25215	2/1/1981	B. CRAWFORD	40.98056	-76.01111	398	OPEN HOLE	50	40	DOMESTIC
25216		DAVIS,J.	40.98056	-76.03333	150	UNKNOWN	20	60	DOMESTIC
25217	1/1/1913	JEDDO HIGHLAND COAL	40.98139	-75.92611	1560	UNKNOWN	35	100	INDUSTRIAL
25218	1/1/1903	JEDDO HIGHLAND COAL	40.98167	-75.91889	634	UNKNOWN	100	0	INDUSTRIAL
25219		JONES,ROBERT	40.98167	-76.02972	80	UNKNOWN	50	24	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25220		WEBSTER,GEORGE	40.98167	-76.21250	94	OPEN END	10	10	UNUSED
25221		JEDDO HIGHLAND COAL	40.98194	-75.92139	744	UNKNOWN	20	120	INDUSTRIAL
25222	11/19/1913	JEDDO HIGHLAND COAL	40.98194	-75.96861	895	UNKNOWN	10	50	UNUSED
25223	4/1/1981	ERNIES STEAKHOUSE	40.98194	-75.98139	380	OPEN HOLE	0	23	COMMERCIAL
25224	1/1/1954	KEPEN,ANNA,MRS.	40.98250	-75.97528	80	UNKNOWN	0	0	DOMESTIC
25225	1/1/1924	TWINS,HENRI	40.98306	-76.03667	200	UNKNOWN	0	0	DOMESTIC
25226	1/1/1978	TERRACINO, L.	40.98361	-75.98361	500	OPEN HOLE	60	30	DOMESTIC
25227	10/1/1977	CARSIA, S.	40.98389	-75.97611	180	UNKNOWN	25	25	DOMESTIC
25228	3/1/1981	P. GUZA	40.98417	-76.02139	220	OPEN HOLE	8	40	DOMESTIC
25229	10/1/1978	B. KELCHNER	40.98444	-76.17083	260	OPEN HOLE	0	0	DOMESTIC
25230		JEDDO HIGHLAND COAL	40.98528	-75.89528	371	UNKNOWN	0	75	INDUSTRIAL
25231		JEDDO HIGHLAND COAL	40.98528	-75.89667	596	UNKNOWN	20	0	INDUSTRIAL
25232		HESS,MR.	40.98528	-76.05500	90	UNKNOWN	0	40	DOMESTIC
25233	7/1/1983	CAPPOCCI , PHILLIP	40.98639	-75.79333	100	OPEN HOLE	20	25	PUBLIC SUPPLY
25234	1/1/1974	KAWON INC.	40.98639	-75.96417	0	UNKNOWN	23	0	PUBLIC SUPPLY
25235	1/1/1915	JEDDO HIGHLAND COAL	40.98833	-75.93694	450	UNKNOWN	150	150	INDUSTRIAL
25236		RISHER,IRVIN	40.98861	-75.97222	80		0	0	DOMESTIC
25237	1/1/1934	LLEWELLEN	40.98917	-75.95500	190	UNKNOWN	0	0	PUBLIC SUPPLY
25238	1/1/1951	KOSCUK,M.	40.98944	-75.97056	92	UNKNOWN	0	0	DOMESTIC
25239	1/1/1978	G. LEITNER	40.98972	-76.08083	300		0	32	DOMESTIC
25240	7/1/1978	T. PRICE	40.99028	-76.08139	300	OPEN HOLE	25	100	DOMESTIC
25241	10/1/1980	W. DALPIAS	40.99083	-76.04944	260	OPEN HOLE	25	25	DOMESTIC
25242	10/1/1980	C. GRANT	40.99083	-76.04972	260		0	10	DOMESTIC
25243	10/1/1980	L. CRAVER	40.99083	-76.05028	260	OPEN HOLE	0	17	DOMESTIC
25244	9/1/1978	B. MITCHELL	40.99139	-76.08333	350	OPEN HOLE	4	0	DOMESTIC
25245		HAZLETON CITY AUTH.	40.99194	-75.96194	473	UNKNOWN	100	0	PUBLIC SUPPLY
25246		HAZELTON CITY AUTH.	40.99194	-75.96194	473	UNKNOWN	0	0	PUBLIC SUPPLY
25247	8/20/1979	RICK DAVIS	40.99250	-76.21444	145	OPEN HOLE	15	0	DOMESTIC
25248	1/1/1951	FISHER,RALPH	40.99306	-76.00389	0	UNKNOWN	0	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25249	10/1/1978	A. FREY	40.99361	-76.04028	200	OPEN HOLE	25	20	DOMESTIC
25250		REITMEYER,J.	40.99389	-76.00333	20	UNKNOWN	0	0	UNUSED
25251	1/1/1950	REITMEYER,JOSEPH	40.99417	-76.00361	97	UNKNOWN	0	0	DOMESTIC
25252	9/1/1977	KLINETOP, R.	40.99444	-75.99583	120	UNKNOWN	0	7	DOMESTIC
25253		WYOMING VALLEY WATER	40.99583	-75.87222	500	UNKNOWN	100	0	PUBLIC SUPPLY
25254		DEANGELO,SAM	40.99667	-75.98722	22	UNKNOWN	0	0	DOMESTIC
25255	2/1/1981	ENERGY CONSERVATION BUILDERS	40.99667	-76.02083	428	OPEN HOLE	25	100	DOMESTIC
25256		PARDEE BROTHERSCOAL	40.99694	-75.95667	299	UNKNOWN	10	199	INDUSTRIAL
25257		PARDEE BROTHERSCOAL	40.99750	-75.94694	332	UNKNOWN	8	220	INDUSTRIAL
25258	1/1/1941	COOP.	40.99750	-75.98833	190	UNKNOWN	0	0	PUBLIC SUPPLY
25259	1/1/1915	JEDDO HIGHLAND COAL	40.99778	-75.87972	600	UNKNOWN	0	0	INDUSTRIAL
25260		JEDDO HIGHLAND COAL	40.99778	-75.88417	1000	OPEN HOLE	20	0	INDUSTRIAL
25261		JEDDO HIGHLAND COAL	40.99806	-75.88222	364		50	0	INDUSTRIAL
25262	8/18/1978	MEROLA, S.	40.99917	-75.97528	245	OPEN HOLE	18	32	DOMESTIC
25263			40.99944	-76.04944	100	UNKNOWN	17	35	DOMESTIC
25264	1/1/1979	TERRICINY, L.	41.00000	-75.97389	160	OPEN HOLE	20	25	DOMESTIC
25265			41.00056	-75.81972	0		0	0	UNUSED
25266		WILLS,BERNARD C	41.00056	-76.07667	67	OPEN HOLE	8	35	DOMESTIC
25267		ORINSKY,A.	41.00056	-76.09861	220	OPEN HOLE	1	80	DOMESTIC
25268	2/15/1977	CHEPULA, J.	41.00111	-75.96889	160	UNKNOWN	15	30	DOMESTIC
25269	2/1/1977	RANZARELLA J.	41.00139	-75.96694	300	UNKNOWN	25	20	DOMESTIC
25270	6/1/1978	DEANGELO, D.	41.00167	-75.97000	160	OPEN HOLE	20	20	DOMESTIC
25271	1/1/1950	DICK,A.E.	41.00250	-76.09028	702	OPEN HOLE	0	0	STOCK
25272	8/7/1974	JUREWICZ, CHARLES A	41.00250	-76.14278	200	OPEN HOLE	20	50	DOMESTIC
25273	1/1/1952	PARDEESVILLE ASSOCIA	41.00278	-75.96806	170	UNKNOWN	10	0	PUBLIC SUPPLY
25274			41.00528	-75.99389	0		0	0	UNUSED
25275	4/1/1979	SUGARLOAF RECREATION AREA	41.00556	-76.07056	120	OPEN HOLE	25	10	DOMESTIC
25276	1/1/1915	WYOMING VALLEY WATER	41.00750	-75.90111	554	UNKNOWN	100	100	PUBLIC SUPPLY
25277		PARDEE,T.P.	41.00861	-76.07444	268	OPEN HOLE	10	45	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25278	11/1/1977	SUGARLOAF TOWNSHIP SUPERVISORS	41.00889	-76.07972	180	OPEN HOLE	35	20	DOMESTIC
25279		FREELAND WATER	41.01056	-75.91417	514	OPEN HOLE	427	3	PUBLIC SUPPLY
25280		OAKS,ADAMS	41.01111	-76.04000	92	OPEN HOLE	10	40	DOMESTIC
25281	10/1/1981	MASLANKA, P.	41.01139	-75.95194	220	OPEN HOLE	25	30	DOMESTIC
25282	1/1/1915	JEDDO HIGHLAND COAL	41.01278	-75.89250	506	UNKNOWN	5	0	INDUSTRIAL
25283	12/20/1973	FREELAND MUNICIPAL AUTHORITY	41.01417	-75.90611	500	OPEN HOLE	250	0	PUBLIC SUPPLY
25284	7/1/1979	FALLABEL, R.	41.01500	-75.99194	240	OPEN HOLE	25	30	DOMESTIC
25285		FREELAND WATER CO.	41.01583	-75.89222	500	UNKNOWN	150	0	PUBLIC SUPPLY
25286			41.01611	-75.84861	0		0	0	UNUSED
25287	1/1/1949	BENYO,GEORGE	41.01694	-75.91750	156	UNKNOWN	0	0	DOMESTIC
25288	1/1/1924	BRONCHMEYER MR.	41.01722	-75.82694	64	OPEN HOLE	0	0	DOMESTIC
25289			41.01722	-75.88250	0		50	100	INDUSTRIAL
25290	12/1/1980	LITTLE FOREIGNCAR	41.01722	-75.91833	390	UNKNOWN	50	0	DOMESTIC
25291		FREELAND WATER CO.	41.01750	-75.89222	525	UNKNOWN	65	0	PUBLIC SUPPLY
25292		FREELAND WATER CO.	41.01750	-75.89222	203	OPEN HOLE	200	21	PUBLIC SUPPLY
25293	11/1/1981	MAJOR, D.	41.01750	-75.97639	240	OPEN HOLE	25	25	DOMESTIC
25294	8/22/1962	FREELAND BOROUGH	41.01778	-75.89083	0	OPEN HOLE	72	40	PUBLIC SUPPLY
25295			41.01778	-76.08111	201	OPEN HOLE	0	30	DOMESTIC
25296	9/11/1967	SHINER, WILTON	41.01833	-76.20667	112	OPEN HOLE	3	0	DOMESTIC
25297	3/27/1974	FULLER, DAVID	41.01833	-76.21500	185	OPEN HOLE	0	67	DOMESTIC
25298	9/14/1955	FREELAND BOROUGH	41.01861	-75.89000	430	OPEN HOLE	200	22	PUBLIC SUPPLY
25299	3/17/1976	MANTZ, R.	41.01889	-75.86528	115	UNKNOWN	20	30	DOMESTIC
25300	8/1/1978	HOLLY, A.	41.01889	-76.05056	200	OPEN HOLE	25	40	DOMESTIC
25301	1/1/1981	STRAW, F.	41.02028	-75.99556	180	OPEN HOLE	25	40	DOMESTIC
25302			41.02028	-76.04833	125		0	0	
25303		WYSOCKY,STANLEY	41.02167	-75.87750	105	UNKNOWN	0	0	DOMESTIC
25304	4/1/1981	INTERSTATE TRAVEL SRV	41.02167	-75.96583	360	OPEN HOLE	0	30	COMMERCIAL
25305		COMFORT,MR.	41.02167	-76.00083	50	OPEN END	0	0	DOMESTIC
25306		YODER,G.	41.02306	-76.19833	96	OPEN HOLE	6	55	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25307	5/27/1976	ROBBINS, JOHN	41.02333	-76.22083	35	OPEN HOLE	12	0	DOMESTIC
25308			41.02556	-75.89611	275		0	0	
25309	1/1/1914	FREELAND WATER CO.	41.02556	-75.89750	325	OPEN HOLE	10	0	PUBLIC SUPPLY
25310		FREELAND MUNICIPAL AUTHORITY	41.02556	-75.89750	275	OPEN HOLE	180	40	PUBLIC SUPPLY
25311	10/4/1988	FREELAND BORO	41.02556	-75.90583	600	OPEN HOLE	75	23	PUBLIC SUPPLY
25312	11/7/1972	FREELAND MUN AUTH	41.02583	-75.88833	405	OPEN HOLE	110	16	PUBLIC SUPPLY
25313	1/1/1928	PHILLIPS	41.02611	-76.08250	110	OPEN HOLE	5	40	DOMESTIC
25314	4/9/1974	CALLAHAN	41.02611	-76.18361	300	OPEN HOLE	0	160	DOMESTIC
25315	1/1/1913	JEDDO HIGHLAND COAL	41.02667	-75.86361	699	OPEN HOLE	60	50	PUBLIC SUPPLY
25316	10/1/1980	ST. JOHN'S CHURCH	41.02722	-76.00833	200	UNKNOWN	25	20	PUBLIC SUPPLY
25317	7/1/1979	ST. JOHN'S CHURCH	41.02806	-76.00806	160	UNKNOWN	0	34	PUBLIC SUPPLY
25318	3/1/1981	GEORGE BURGER AND SONS	41.02889	-76.04722	200	OPEN HOLE	9	0	DOMESTIC
25319		TROTSKY MR.	41.03111	-75.77750	150	OPEN HOLE	25	20	DOMESTIC
25320	2/17/1976	SEWARO, HAROLD	41.03139	-76.17167	245	OPEN HOLE	22	50	DOMESTIC
25321	1/1/1928	MILLER MRS.	41.03167	-75.77306	65	OPEN HOLE	5	0	DOMESTIC
25322		FREELAND WATER CO	41.03194	-75.90556	700	UNKNOWN	90	0	PUBLIC SUPPLY
25323	4/1/1980	STECKER, D.	41.03194	-76.00667	360	OPEN HOLE	25	40	DOMESTIC
25324	1/1/1960	FREELAND WATER CO	41.03250	-75.89611	700	OPEN HOLE	90	0	PUBLIC SUPPLY
25325	12/1/1979	HUNSINGER, T.	41.03278	-76.00806	200	OPEN HOLE	25	30	DOMESTIC
25326	4/2/1974	STEINHAVER DONALD L	41.03361	-76.17333	170	OPEN HOLE	25	35	DOMESTIC
25327	3/27/1974	ADAMS, MARK	41.03361	-76.18028	230	OPEN HOLE	18	30	DOMESTIC
25328	7/18/1974		41.03389	-76.17222	140	OPEN HOLE	15	0	DOMESTIC
25329	1/1/1954	MOASCH,HENRY	41.03417	-75.84917	90	UNKNOWN	0	0	DOMESTIC
25330	10/11/1974	WHITMIRE	41.03444	-76.17389	175	OPEN HOLE	6	0	DOMESTIC
25331		FREELAND WATER CO.	41.03472	-75.89944	150	OPEN HOLE	0	0	PUBLIC SUPPLY
25332	8/1/1980	DEISENROTH H.	41.03528	-75.96222	160	OPEN HOLE	25	12	DOMESTIC
25333	7/17/1974	ATEN, TOM	41.03611	-76.17472	125	OPEN HOLE	8	0	DOMESTIC
25334		FAIRCHILD,WALT.	41.03667	-75.85056	155	OPEN HOLE	63	20	RECREATION
25335			41.03722	-75.85000	0		0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25336		HOOKS GARAGE	41.03806	-75.95556	100	UNKNOWN	8	20	COMMERCIAL
25337	9/1/1980	SHANDRICK, L.	41.03806	-76.01139	260	OPEN HOLE	25	20	DOMESTIC
25338	1/1/1914	JEDDO HIGHLAND COAL	41.03861	-75.86556	150	OPEN HOLE	0	40	INDUSTRIAL
25339	5/1/1974	DEISCHAINE ROLAND	41.03917	-76.13750	275	OPEN HOLE	20	0	DOMESTIC
25340		DINKBLACKER AND BALA	41.04028	-75.95639	92	UNKNOWN	11	30	DOMESTIC
25341		HOAK MR.	41.04083	-75.94917	65	OPEN HOLE	5	30	DOMESTIC
25342	1/1/1930	BUTLER TOWNSHIPSCHOO	41.04306	-75.95167	157	OPEN END	15	30	DOMESTIC
25343	1/1/1972	LAKE OFTHE FOURSEASON	41.04333	-75.93083	690		0	0	PUBLIC SUPPLY
25344	7/2/1974	BENJAMIN, ORVILLE	41.04361	-76.19861	125	OPEN HOLE	0	20	DOMESTIC
25345		SHEAMAN,RUBEN	41.04417	-75.84500	100	UNKNOWN	0	0	DOMESTIC
25346		YDOCK,JOHN	41.04444	-75.83417	95	UNKNOWN	0	0	DOMESTIC
25347		COMER GAS STATI ON	41.04556	-75.78139	100	OPEN HOLE	5	65	COMMERCIAL
25348		SLOSSER,MR.	41.04639	-76.15056	138	UNKNOWN	0	0	DOMESTIC
25349		PENNHURST STATESCHOO	41.04694	-75.78306	300		0	0	UNUSED
25350	1/1/1959	PENNHURST STATESCHOO	41.04722	-75.78194	0	UNKNOWN	0	0	INSTITUTIONAL
25351	1/1/1972	LAKE OFTHE FOURSEASON	41.04722	-75.92361	0		0	0	PUBLIC SUPPLY
25352	1/1/1959	PENNHURST STATESCHOO	41.04806	-75.78111	500	UNKNOWN	90	0	INSTITUTIONAL
25353	1/1/1959	PENNHURST STATESCHOO	41.04889	-75.78028	0	UNKNOWN	0	0	INSTITUTIONAL
25354	2/19/1974	KLINE, LARRY	41.04944	-76.16556	140	OPEN HOLE	0	0	DOMESTIC
25357	1/1/1902	PENNHURST STATE SCHO	41.05222	-75.78056	450	UNKNOWN	18	0	INSTITUTIONAL
25358		WHITE HAVEN WATER CO	41.05222	-75.80083	700	OPEN HOLE	0	0	PUBLIC SUPPLY
25359		WHITE HAVEN WATER CO	41.05222	-75.80083	800	OPEN HOLE	0	0	PUBLIC SUPPLY
25360	1/1/1959	PENNHURST STATESCHOO	41.05472	-75.78417	0	UNKNOWN	0	0	INSTITUTIONAL
25361	1/1/1959	PENNHURST STATE SCHO	41.05500	-75.77944	500	UNKNOWN	60	134	INSTITUTIONAL
25362	1/1/1903	PENNHURST STATE SCHO	41.05500	-75.78639	440	UNKNOWN	30	0	INSTITUTIONAL
25363	1/1/1959	PENNHURST STATESCHOO	41.05556	-75.78472	500	UNKNOWN	0	0	INSTITUTIONAL
25364	1/1/1958	PENNHURST STATE SCHO	41.05583	-75.78306	450	UNKNOWN	41	166	INSTITUTIONAL
25365	3/1/1979	DURAL, C.	41.05583	-75.96139	160	OPEN HOLE	0	30	DOMESTIC
25366	1/1/1980	RYMAN, WALTER	41.05611	-76.21056	340	OPEN HOLE	35	82	STOCK

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25367	8/19/1971	WHITE HAVEN CENTER	41.05750	-75.79556	500	SCREEN	130	30	IRRIGATION
25368		READLER,CALVIN P.	41.05778	-76.09639	30	OPEN HOLE	0	27	DOMESTIC
25369	3/1/1962	WHITEHAVEN STATE SCH	41.05806	-75.79972	385	OPEN HOLE	250	0	INSTITUTIONAL
25370	4/9/1960	PENNHURST STATE SCHOOL	41.06028	-75.79944	397	OPEN HOLE	0	4	INSTITUTIONAL
25371	1/1/1950	WHITE HAVEN CENTER	41.06111	-75.79444	94	OPEN HOLE	8	50	INSTITUTIONAL
25372		WHITE HAVEN MUN AUTH	41.06306	-75.78083	230	OPEN HOLE	183	40	PUBLIC SUPPLY
25373	1/1/1929	LARSON,JAMES.	41.06417	-75.77972	38	OPEN HOLE	15	0	DOMESTIC
25374	6/15/1976	SEIGFRED WILLIAM	41.06556	-76.21056	85	UNKNOWN	25	5	DOMESTIC
25375	1/1/1958	ZETTLE, WILLIAM	41.06639	-76.19694	196	OPEN HOLE	0	94	DOMESTIC
25376	9/1/1979	W. ZIMSKI	41.06694	-76.11444	245	UNKNOWN	15	45	DOMESTIC
25377	10/21/1968	BEACH HAVEN COMMTY. BD	41.06722	-76.17167	51	OPEN HOLE	40	12	DOMESTIC
25378	11/22/1976	BREISCH CONKLIN	41.06750	-76.10361	150	OPEN HOLE	10	0	DOMESTIC
25379		DAVENPORT, WELLINGTON	41.06750	-76.17778	0		0	12	DOMESTIC
25380	4/13/1973	BEACH HAVEN FIRE	41.06806	-76.16167	100	OPEN HOLE	12	40	COMMERCIAL
25381	1/1/1930	DAVIS,B.S.	41.06889	-76.17500	102	OPEN HOLE	9	14	DOMESTIC
25382	8/25/1973	PRICE, ROBERT B	41.06917	-76.15194	125	UNKNOWN	9	48	DOMESTIC
25383	10/4/1974	MOLYNEAUX, SHELDON	41.06917	-76.16694	50	OPEN HOLE	0	2	DOMESTIC
25384	8/8/1973	BURKE, RUSSEL	41.06972	-76.16361	100	OPEN HOLE	8	0	DOMESTIC
25385	3/30/1967	KILLIAN, GENE	41.06972	-76.16750	100	OPEN HOLE	20	8	DOMESTIC
25386	4/15/1970	WOLFE, MALVERN	41.07000	-76.13611	175	OPEN HOLE	5	0	DOMESTIC
25387	8/9/1968	ZWOLINSKI, STEVEN	41.07000	-76.16694	145	OPEN HOLE	20	36	DOMESTIC
25388	12/9/1967	KMETOVICZ, GENE	41.07056	-76.17611	85	OPEN HOLE	0	22	DOMESTIC
25389	9/24/1976	MOLNOR, STEVE	41.07139	-76.16778	150	OPEN HOLE	6	0	DOMESTIC
25390	10/14/1974	DIAUGSTINE NEBBIE	41.07167	-76.19667	275	OPEN HOLE	4	0	DOMESTIC
25391	10/11/1967	PRICE, ROBERT P	41.07250	-76.15194	160	OPEN HOLE	0	63	DOMESTIC
25392	11/1/1979	R. JECKELL	41.07278	-76.02667	260	OPEN HOLE	6	40	DOMESTIC
25393	1/1/1957	GRIFFIN, GEORGE	41.07278	-76.15167	98	UNKNOWN	0	63	DOMESTIC
25394	3/12/1976	PINTERICH, ROBERT	41.07389	-76.22528	175	OPEN HOLE	0	36	DOMESTIC
25395	5/2/1977	NAUNCZEK, BENNIE	41.07389	-76.22611	125	OPEN HOLE	0	26	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25396	3/16/1976	NAUNCZEK, BENNIE	41.07389	-76.22750	100	OPEN HOLE	0	15	COMMERCIAL
25397	9/3/1930	MARKOVICH,M.J.	41.07444	-76.14861	100	OPEN HOLE	0	30	DOMESTIC
25398		FOX, CLARENCE	41.07611	-76.13500	55	UNKNOWN	0	0	DOMESTIC
25399		WEISS,MR.	41.07722	-76.07944	75	UNKNOWN	12	25	DOMESTIC
25400		MURPHY,P.J. MR.	41.07861	-75.79083	120	OPEN HOLE	25	60	DOMESTIC
25401	1/1/1981	M. PETERS	41.07889	-76.09111	250	OPEN HOLE	10	0	DOMESTIC
25402	3/9/1973	FEISSNOR, LARRY	41.07972	-76.22611	175	OPEN HOLE	10	100	DOMESTIC
25403	8/19/1971	NAUNCZEK, BENNIE	41.08000	-76.22472	100	OPEN HOLE	12	30	DOMESTIC
25404		HOCK,A.	41.08167	-76.06528	110	UNKNOWN	8	0	DOMESTIC
25405	8/1/1977	H. RATNIK	41.08222	-76.01083	300	OPEN HOLE	10	28	DOMESTIC
25406	1/4/1970	SALEM TWP.	41.08222	-76.14056	175	OPEN HOLE	12	0	DOMESTIC
25407	8/1/1980	D. SULT	41.08278	-76.10889	200	OPEN HOLE	0	150	DOMESTIC
25408	9/1/1977	MACYCZIK, B.	41.08333	-75.99889	200	OPEN HOLE	30	50	DOMESTIC
25409	4/25/1970	GOLOMB, DEBRA	41.08333	-76.18556	125	OPEN HOLE	0	9	DOMESTIC
25410		GROBER,A.	41.08389	-76.10944	142	OPEN HOLE	7	65	DOMESTIC
25411		MINGLE INN	41.08417	-76.13972	150	UNKNOWN	0	0	COMMERCIAL
25412	18500101	SINK, WILLIAM H	41.08472	-76.15694	50	WALLED	0	5	DOMESTIC
25413	6/22/1973	BOMBUSHIME HARRY	41.08583	-76.22333	300	OPEN HOLE	6	0	DOMESTIC
25414	7/16/1974	VARNER, ARTHUR	41.08611	-76.19194	125	OPEN HOLE	7	0	DOMESTIC
25415	9/2/1971	BARRY W. BLOSS	41.08639	-76.06056	215	UNKNOWN	0	65	DOMESTIC
25416	11/9/1967	KARCHNER, GERALD	41.08639	-76.19139	130	OPEN HOLE	10	25	DOMESTIC
25417	7/4/1974	MCCOY, DONALD	41.08667	-76.22444	250	OPEN HOLE	6	0	DOMESTIC
25418	7/5/1974	KENNEDY, MICHAEL	41.08694	-76.22278	250	OPEN HOLE	7	0	DOMESTIC
25419	10/23/1972	MONT, MICHAIL	41.08722	-76.13917	100	OPEN HOLE	0	5	DOMESTIC
25420	6/18/1967	KNORR, SAMUEL	41.08861	-76.18750	117	OPEN HOLE	0	33	DOMESTIC
25421	1/1/1959	VANDERMARK WILSON	41.08889	-76.19250	90	OPEN HOLE	0	65	DOMESTIC
25422	10/16/1970	PA. POWER AND LIGHT	41.09028	-76.14444	0	OPEN HOLE	0	5	UNUSED
25423	9/14/1973	KESSLER, HAROLD	41.09028	-76.22333	300	OPEN HOLE	5	0	DOMESTIC
25424	6/1/1976	BOGNAR, RICHARD	41.09056	-76.20222	200	OPEN HOLE	25	60	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25425	12/14/1970	PA. POWER AND LIGHT	41.09083	-76.14472	0	OPEN HOLE	0	21	UNUSED
25426	9/29/1970	PA. POWER AND LIGHT	41.09194	-76.14417	0	OPEN HOLE	0	17	UNUSED
25427	11/18/1970	PA. POWER AND LIGHT	41.09194	-76.14778	0	OPEN HOLE	0	7	UNUSED
25428	10/25/1976	BOGART, LARUE	41.09250	-76.20667	125	OPEN HOLE	7	0	DOMESTIC
25429	8/1/1972	PA. POWER AND LIGHT	41.09278	-76.13306	55	UNKNOWN	0	0	UNUSED
25430	10/20/1970	PA. POWER AND LIGHT	41.09278	-76.14361	0	OPEN HOLE	0	27	UNUSED
25431	11/16/1970	PA. POWER AND LIGHT	41.09278	-76.14472	0	OPEN HOLE	0	26	UNUSED
25432	11/20/1970	PA. POWER AND LIGHT	41.09278	-76.14778	0	OPEN HOLE	0	34	UNUSED
25433	8/1/1972	PA. POWER AND LIGHT	41.09361	-76.13444	23	UNKNOWN	0	0	UNUSED
25434	11/18/1970	PA. POWER AND LIGHT	41.09389	-76.14417	0	OPEN HOLE	0	28	UNUSED
25435		FEY,CHARLES	41.09417	-75.99861	89	OPEN HOLE	0	22	DOMESTIC
25436	8/1/1972	PA. POWER AND LIGHT	41.09417	-76.13250	75	UNKNOWN	9	25	INDUSTRIAL
25437	10/6/1970	PA. POWER AND LIGHT	41.09417	-76.14333	0	OPEN HOLE	0	32	UNUSED
25438	10/8/1970	PA. POWER AND LIGHT	41.09417	-76.14778	0	OPEN HOLE	0	18	UNUSED
25439	10/6/1970	PA. POWER AND LIGHT	41.09500	-76.14500	0	OPEN HOLE	0	30	UNUSED
25440	10/14/1970	PA. POWER AND LIGHT	41.09528	-76.14361	0	OPEN HOLE	0	15	OTHER
25441	10/9/1970	PA. POWER AND LIGHT	41.09528	-76.14472	0	OPEN HOLE	0	62	UNUSED
25442	11/9/1970	PA. POWER AND LIGHT	41.09556	-76.14472	0	OPEN HOLE	0	36	UNUSED
25443	10/29/1970	PA. POWER AND LIGHT	41.09556	-76.14667	0	OPEN HOLE	0	65	UNUSED
25444		PA. POWER AND LIGHT	41.09583	-76.13028	44	UNKNOWN	0	13	UNUSED
25445	10/23/1970	PA. POWER AND LIGHT	41.09583	-76.14556	0	OPEN HOLE	0	55	UNUSED
25446	11/12/1970	PA. POWER AND LIGHT	41.09611	-76.14417	0	OPEN HOLE	0	29	UNUSED
25447	10/29/1970	PA. POWER AND LIGHT	41.09611	-76.14472	0	OPEN HOLE	0	32	UNUSED
25448	10/21/1970	PA. POWER AND LIGHT	41.09694	-76.14500	0	OPEN HOLE	0	0	UNUSED
25449	10/27/1966	RHINARD, VIRGIL	41.09750	-76.21556	95	OPEN HOLE	9	25	DOMESTIC
25450	11/10/1970	PA. POWER AND LIGHT	41.09778	-76.14500	0	OPEN HOLE	0	0	UNUSED
25451	1/16/1973	PA. POWER AND LIGHT	41.09833	-76.13028	91	UNKNOWN	0	0	UNUSED
25452	11/1/1980	SACHS, J.	41.09889	-75.95583	200	OPEN HOLE	12	35	DOMESTIC
25453	1/1/1950	HESS,RALPH	41.10083	-76.09806	397	UNKNOWN	0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25454	9/22/1978	JOHN WINTERGRASS	41.10111	-76.00500	135	OPEN HOLE	10	15	DOMESTIC
25455	7/8/1975	KRISANDA, JOHN	41.10111	-76.17167	100	OPEN HOLE	6	0	DOMESTIC
25456	10/12/1977	PA. POWER AND LIGHT	41.10250	-76.13722	100	OPEN HOLE	0	25	DOMESTIC
25457		HUFFMAN,HERBERT	41.10361	-76.00750	60	UNKNOWN	1	30	DOMESTIC
25458	1/11/1973	PA. POWER AND LIGHT	41.10361	-76.13194	54	UNKNOWN	0	16	UNUSED
25459	11/9/1972	SWITZER, JIM	41.10472	-76.21194	75	OPEN HOLE	0	35	DOMESTIC
25460	11/1/1979	HOFFMAN, C.	41.10500	-75.98722	225	OPEN HOLE	7	0	DOMESTIC
25461	12/26/1975	HONSE, GEORGE	41.10500	-76.17639	150	OPEN HOLE	5	0	DOMESTIC
25462	1/27/1972	PETERS, FRANK	41.10639	-76.18167	130	OPEN HOLE	0	10	DOMESTIC
25463	5/7/1976	HUMMEL, FRED	41.10667	-76.13806	90	UNKNOWN	10	0	PUBLIC SUPPLY
25464	8/13/1976	PETERS, FRANK	41.10667	-76.18083	150	OPEN HOLE	6	0	DOMESTIC
25465	9/9/1967	GUNTHER, BART	41.10667	-76.21556	215	OPEN HOLE	4	80	DOMESTIC
25466	8/12/1976	DALBERTO, NICK	41.10694	-76.18278	150	OPEN HOLE	6	0	UNUSED
25467		WINTERGRASS,MR.	41.10722	-76.00694	75	OPEN HOLE	3	30	DOMESTIC
25468	1/7/1973	REICHARD, PAUL	41.10778	-76.18250	125	OPEN HOLE	0	45	DOMESTIC
25469	9/3/1930	SIESKO,EMIL	41.10806	-76.13833	148	OPEN END	0	48	DOMESTIC
25470	6/26/1973	KELLER, EARL	41.10361	-76.21167	125	OPEN HOLE	8	0	DOMESTIC
25471	9/24/1973	SITLER, LEMUEL	41.10944	-76.17778	100	OPEN HOLE	12	0	DOMESTIC
25472	5/1/1981	A. RINEHIMER	41.11083	-76.01000	350	OPEN HOLE	5	25	DOMESTIC
25473	10/3/1974	HOLLOWAY, THOMAS	41.11278	-76.18250	125	OPEN HOLE	6	0	DOMESTIC
25474	7/8/1975	BAER, RUSSEL	41.11306	-76.16361	125	OPEN HOLE	10	0	DOMESTIC
25475	10/19/1976	BLOOM, FRANK	41.11306	-76.18889	150	OPEN HOLE	8	0	DOMESTIC
25476	1/1/1907	KNIES,MR.	41.11389	-75.94917	60	UNKNOWN	0	0	DOMESTIC
25477		EVANS,MR.	41.12028	-75.95444	150	UNKNOWN	0	50	DOMESTIC
25478		JOHNS,TESSIE	41.12056	-75.91139	90	OPEN END	10	20	DOMESTIC
25479		BRONSON,MR.	41.12222	-75.92944	76	OPEN HOLE	11	20	DOMESTIC
25480	3/30/1979	FRANK BUTZ	41.12250	-76.12000	200	OPEN HOLE	30	30	DOMESTIC
25481	11/22/1972	CRISBELL, WILLIAM	41.12278	-76.16778	110	OPEN HOLE	0	35	UNUSED
25482	3/1/1980	YERMA, P.	41.12361	-75.95972	220	OPEN HOLE	35	35	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25483	1/1/1981	DANIEL LUTZ	41.12417	-76.06028	125	OPEN HOLE	12	0	DOMESTIC
25484		CISCO,MR.	41.12639	-76.14417	145	OPEN HOLE	25	25	DOMESTIC
25486	6/1/1977	B. GENSEL	41.13083	-76.22778	175	OPEN HOLE	6	0	DOMESTIC
25487	2/1/1981	K. SHARETTS	41.13222	-76.07917	350	OPEN HOLE	2	40	DOMESTIC
25488	1/20/1978	RODNEY DEETS	41.13250	-76.04694	315	OPEN HOLE	0	0	DOMESTIC
25489	1/1/1978	J. KOTRASKI	41.13333	-76.08806	180	UNKNOWN	25	30	DOMESTIC
25490	7/7/1978	IRA STEIN	41.13444	-76.04500	145	OPEN HOLE	20	15	DOMESTIC
25491	5/1/1980	BRUSH, C.	41.13556	-75.98556	242	OPEN HOLE	0	25	DOMESTIC
25492	10/10/1978	BALLIET, FRED	41.13556	-75.99611	300	UNKNOWN	4	40	DOMESTIC
25493	4/1/1979	J. ROBINSON	41.14000	-76.21500	200	OPEN HOLE	8	0	DOMESTIC
25494	8/1/1979	SPAIDE	41.14167	-76.04750	150	OPEN HOLE	40	10	DOMESTIC
25495	12/1/1980	BUTTON, F.	41.14194	-75.98944	345	OPEN HOLE	3	25	DOMESTIC
25496	5/1/1979	W. KISHBAUGH	41.14222	-76.19667	150	OPEN HOLE	12	0	DOMESTIC
25497		BERKEISER,P.	41.14444	-75.87000	120	OPEN END	8	30	DOMESTIC
25498	11/1/1980	L. LYNN	41.14639	-76.03889	150	OPEN HOLE	15	20	DOMESTIC
25499	9/16/1974	EVERIT, K.	41.14694	-76.23139	400	OPEN HOLE	5	0	DOMESTIC
25500	8/1/1977	DALBERT, C.	41.14722	-75.96056	150	OPEN HOLE	5	30	DOMESTIC
25501		KIRBI F.M.	41.14889	-75.86083	565	UNKNOWN	20	215	DOMESTIC
25502		EVANS,EVAN	41.14889	-76.02111	110	OPEN HOLE	8	40	DOMESTIC
25503	1/1/1950		41.15083	-76.09500	752	OPEN HOLE	0	13	UNUSED
25504		RUMPELLI,GEORGE	41.15167	-75.95250	60	UNKNOWN	3	0	DOMESTIC
25505	3/1/1981	W. WOMELSDORF	41.15222	-76.02111	190	OPEN HOLE	15	20	DOMESTIC
25506	1/1/1978	T. JARONSKI	41.15222	-76.09278	150	OPEN HOLE	6	5	DOMESTIC
25507	1/1/1939	BILLINGS,ANGELO	41.15278	-76.08583	51	UNKNOWN	0	0	DOMESTIC
25508	1/1/1955	MOUNTAIN INN	41.15389	-76.08444	81	UNKNOWN	10	20	COMMERCIAL
25509	1/1/1930	MILROY,MR.	41.15444	-75.89472	65	OPEN HOLE	20	28	DOMESTIC
25510	4/1/1980	T. STAIR	41.15444	-76.02222	175	OPEN HOLE	0	40	DOMESTIC
25511	12/11/1980	D BARRETTS	41.15639	-76.19694	235	OPEN HOLE	8	62	DOMESTIC
25512	1/1/1978	STEMRICK, T.	41.15694	-75.94361	275	UNKNOWN	4	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25513		WAMBOLDT,MARTIN	41.15722	-75.97889	126	OPEN HOLE	11	40	DOMESTIC
25514	1/1/1955	SELECKY,FRANK,M R.	41.15722	-76.15583	62	UNKNOWN	40	0	DOMESTIC
25515			41.15778	-75.89056	52	OPEN HOLE	6	0	DOMESTIC
25516	10/7/1930	BALSHAMER,JAKE	41.15889	-76.15611	47	OPEN END	0	7	DOMESTIC
25517	7/1/1979	NESSIMER, R.	41.15972	-75.96750	300	OPEN HOLE	8	30	DOMESTIC
25518	9/1/1977	SCHARTZ, P.	41.16028	-75.93583	185	OPEN HOLE	20	6	DOMESTIC
25519		MILLER,MR.	41.16167	-75.96361	110	UNKNOWN	11	40	DOMESTIC
25520	7/1/1980	PURVIN, J.	41.16861	-75.93361	300	OPEN HOLE	6	40	DOMESTIC
25521	10/7/1930	CAREY,MR.	41.16944	-76.16833	63	OPEN HOLE	0	30	DOMESTIC
25522		RUSHIN,ANDREW E.	41.17028	-76.00694	100		0	0	DOMESTIC
25523	1/1/1951	KIBLER,DANIEL W.	41.17056	-76.00444	92	UNKNOWN	0	10	DOMESTIC
25524			41.17139	-75.87778	125	UNKNOWN	11	40	DOMESTIC
25525		EAST ALDEN COAL CO.	41.17250	-75.99972	420	OPEN HOLE	6	6	INDUSTRIAL
25526	3/10/1978	E. SORBER	41.17306	-76.16333	325	OPEN HOLE	3	18	DOMESTIC
25527	1/1/1946	DEMCHAK,JEROME	41.17639	-75.96333	100	UNKNOWN	6	30	DOMESTIC
25528	1/1/1915	HORN,VAN,DR.	41.17778	-76.26083	200	UNKNOWN	0	0	DOMESTIC
25529	10/15/1981	DR. JOC. BITTENHENDER	41.18083	-76.22583	255	UNKNOWN	5	25	DOMESTIC
25530		RETREAT STATE HOSPIT	41.18528	-76.09583	68	UNKNOWN	20	20	UNUSED
25531		RETREAT COUNTY POOR	41.18611	-76.08083	807	OPEN HOLE	65	30	INSTITUTIONAL
25532	7/1/1977	J. JOHNSON	41.18611	-76.17306	300	OPEN HOLE	8	0	DOMESTIC
25533	1/1/1922	RETREAT STATE HOSPIT	41.18722	-76.08389	800	OPEN HOLE	133	300	INSTITUTIONAL
25535		RETREAT MENTAL HOSPI	41.18806	-76.08417	60	SCREEN	550	28	INSTITUTIONAL
25536	3/16/1979	L. HONTZ	41.18806	-76.13472	300	OPEN HOLE	3	0	DOMESTIC
25537	1/1/1926	RETREAT STATE H OSPI	41.18833	-76.08361	60	GRAVEL PACK W/ SCREEN	550	28	UNUSED
25538		LORD,J.	41.19083	-76.21333	140	OPEN HOLE	10	30	DOMESTIC
25539		SCRANTON SPRINGBROOK	41.19306	-75.91750	550	UNKNOWN	0	0	PUBLIC SUPPLY
25540	7/1/1975	JOE ZOLKEVICH	41.19333	-76.30222	200	OPEN HOLE	6	0	DOMESTIC
25541		CENTRAL POOR DISTRIC	41.19611	-76.09167	557	OPEN HOLE	3	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25542		SCRANTON SPRINGBROOK	41.19639	-75.89222	550		0	0	PUBLIC SUPPLY
25543	1/1/1926	HAGENBAUGH,H.C.	41.19778	-76.30667	86	UNKNOWN	2	46	DOMESTIC
25544	5/18/1976	KEN TRIPP	41.19861	-76.26972	300	UNKNOWN	3	0	DOMESTIC
25545			41.19944	-75.96444	0		0	0	UNUSED
25546		LUZERNE COUNTY GAS A	41.20639	-76.06944	253	UNKNOWN	18	50	INDUSTRIAL
25547			41.20750	-76.00611	0		0	0	UNUSED
25548		KIESEL,MR.	41.20889	-76.08639	50	OPEN END	10	10	DOMESTIC
25549			41.20917	-76.00194	0		0	0	UNUSED
25550	1/1/1942	WHITESELL,RALPH	41.20917	-76.05722	100	UNKNOWN	10	20	DOMESTIC
25552		SABLE,MR.	41.21250	-76.04306	52	UNKNOWN	0	0	DOMESTIC
25553		SWITHERS A.	41.21361	-76.04222	30	OPEN END	0	0	DOMESTIC
25554		RATCHFORD,J.W.	41.21611	-76.00944	175	OPEN HOLE	10	0	BOTTLING
25555		SUNSET INN	41.21694	-75.82083	80	OPEN HOLE	10	50	COMMERCIAL
25556	1/1/1977	JOHN DORGINSKY	41.21694	-76.23278	215	OPEN HOLE	3	0	DOMESTIC
25557		SCRANTON SPRING BROO	41.21778	-75.86444	0	UNKNOWN	24	0	PUBLIC SUPPLY
25558		LESCO-BARNEY	41.21833	-75.97972	26	GRAVEL PACK W/ SCREEN	100	16	IRRIGATION
25559		ROWE,CHARLES	41.22028	-76.02889	355	OPEN HOLE	3	80	DOMESTIC
25560	8/1/1980	T. MARVIN	41.22111	-76.16278	300	OPEN HOLE	3	245	DOMESTIC
25561	8/18/1980	MILLER, R.	41.22139	-75.83667	500	OPEN HOLE	60	0	PUBLIC SUPPLY
25562	1/1/1914	MEDLY,JAMES	41.22167	-76.02139	154	OPEN HOLE	12	0	DOMESTIC
25563	9/1/1980	D. ROBERTS	41.22222	-76.27444	117	UNKNOWN	6	38	DOMESTIC
25564	7/1/1980	A. GASHI	41.22278	-76.19528	135	OPEN HOLE	6	120	DOMESTIC
25565	1/1/1981	THOMPSON, J.	41.22500	-76.11444	300	OPEN HOLE	1	28	DOMESTIC
25566			41.22528	-75.93694	0		0	0	UNUSED
25567			41.22611	-75.93694	0		0	0	UNUSED
25568	11/1/1980	HINES, D.	41.22722	-76.08111	190	OPEN HOLE	4	56	DOMESTIC
25569			41.23056	-75.92222	0		0	0	UNUSED
25570		BAPTIST CHURCH	41.23083	-76.12667	0	OPEN END	10	55	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25571	8/24/1979	HERBERT HARGRAVES	41.23250	-76.11833	120	UNKNOWN	5	60	DOMESTIC
25572		POLANDER,MIKE	41.23361	-76.17139	115	OPEN HOLE	0	63	DOMESTIC
25573		BLOOMINGDALE CHURCH	41.23389	-76.18611	75	OPEN HOLE	7	18	DOMESTIC
25574		THOMAS,G.	41.23528	-75.80111	142	OPEN HOLE	0	28	DOMESTIC
25575		THOMAS,G.	41.23611	-75.80167	94	OPEN HOLE	0	40	DOMESTIC
25576		SCRANTON SPRINGBROOK	41.23972	-75.97222	1040		0	0	PUBLIC SUPPLY
25577		SCRANTON SPRINGBROOK	41.24000	-75.97167	1950		0	0	PUBLIC SUPPLY
25578		MEYERS HIGH SCHOOL	41.24167	-75.89639	210	OPEN HOLE	2	0	UNUSED
25579		MEYERS HIGH SCHOOL	41.24167	-75.89639	115	OPEN HOLE	0	0	UNUSED
25580	1/1/1929	MARTZ,FRANK	41.24167	-75.90778	180	OPEN HOLE	50	60	DOMESTIC
25581	1/1/1926	MARTZ BUSLINES	41.24278	-75.90750	0	UNKNOWN	500	18	UNUSED
25582	5/31/1974	BUD HESS	41.24417	-76.30083	275	OPEN HOLE	6	0	DOMESTIC
25583		LONG,ELIAS	41.24500	-76.21694	99	OPEN HOLE	5	50	DOMESTIC
25584		THOMAS C.THOMASCO.	41.24528	-75.87667	97	UNKNOWN	120	19	UNUSED
25585	1/1/1937	SWIFT AND CO.	41.24583	-75.87611	40	SCREEN	60	10	INDUSTRIAL
25586			41.24722	-75.96833	30	UNKNOWN	0	4	DOMESTIC
25587	9/4/1930	SMITH,E.G.	41.24722	-76.30833	36	UNKNOWN	0	25	DOMESTIC
25588	9/4/1930	SMITH,E.G.	41.24722	-76.30833	1500	UNKNOWN	0	25	UNUSED
25589		WEITZEL M.E.CHU RCH	41.24778	-76.13306	60	OPEN HOLE	8	20	DOMESTIC
25590	1/1/1932	PRICE,JOHN	41.25250	-75.90000	31	UNKNOWN	0	11	UNUSED
25591	5/22/1975	VESLOSKI, T.	41.25306	-75.77278	200	UNKNOWN	18	1	DOMESTIC
25592		SHAW,ROBERT	41.25861	-76.20556	104	UNKNOWN	0	50	DOMESTIC
25593	1/1/1921	LASKOWSKI,B.G.	41.25972	-76.00056	119	OPEN HOLE	0	20	DOMESTIC
25594	1/1/1928	LESKO-BARNEY	41.26278	-75.90556	16	OPEN HOLE	550	14	UNUSED
25595	1/1/1966	U S G S	41.26306	-75.88000	33	OPEN END	0	10	UNUSED
25596	10/1/1978	WARMAN, L.	41.26389	-75.94361	225	OPEN HOLE	12	10	DOMESTIC
25597		SCRANTON SPRINGBROOK	41.26833	-75.92778	1000		0	0	PUBLIC SUPPLY
25598		GREGORY,AL	41.26972	-75.95444	200	OPEN HOLE	0	0	DOMESTIC
25599		GREGORY,AL	41.27056	-75.95444	350	UNKNOWN	0	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25600		PRICE,ED	41.27194	-75.95722	60	UNKNOWN	0	0	DOMESTIC
25601		BELINE,W.	41.27194	-75.99056	185	OPEN HOLE	8	6	DOMESTIC
25602	1/1/1971	BUREAU OF MINES	41.27250	-75.90333	98	OPEN HOLE	0	38	UNUSED
25603		SHERIN,WALTER	41.27528	-75.93222	5	UNKNOWN	0	2	DOMESTIC
25604		WYOMING VALLEY REALT	41.27528	-76.09222	700	UNKNOWN	6	300	COMMERCIAL
25605	1/1/1955	STATE CORRECTIO NAL	41.27583	-76.02083	220	OPEN HOLE	325	16	INSTITUTIONAL
25606	11/11/1970	MEADOWCRES WATER SERV	41.28000	-75.96667	300	UNKNOWN	0	30	PUBLIC SUPPLY
25607	12/14/1970	MEADOWCRES WATER SERV	41.28000	-75.96667	300	UNKNOWN	47	0	PUBLIC SUPPLY
25608		CHASEMANOR WATER CO.	41.28222	-75.97306	312	UNKNOWN	100	0	PUBLIC SUPPLY
25609	1/1/1951	OMALIA,LARRY	41.28250	-75.86194	80	OPEN END	0	20	UNUSED
25610			41.28417	-75.85556	0		0	0	UNUSED
25611		JOHNSON,IRA	41.28444	-75.96472	320	UNKNOWN	6	25	DOMESTIC
25612		PRUTZMAN,MR.	41.28500	-75.96389	51	OPEN HOLE	10	6	DOMESTIC
25613	2/1/1981	OWENS, ILLINOIS	41.28528	-75.77167	141	OPEN HOLE	114	30	UNUSED
25614	1/1/1927	VAN ORTON,IRA	41.28583	-75.96500	36	UNKNOWN	10	8	DOMESTIC
25615		OLIVER,FRANK	41.28889	-76.14806	206	UNKNOWN	40	60	DOMESTIC
25616		BECKER,J.J.	41.29083	-75.96806	300	OPEN HOLE	60	60	DOMESTIC
25617		COMMUNITY WELL	41.29111	-76.14167	174	UNKNOWN	40	30	PUBLIC SUPPLY
25619		COMMONWEALTH OFPENNS	41.29889	-76.27417	167	UNKNOWN	0	34	UNUSED
25620		DEPARTMENT OF F ORES	41.29917	-76.27444	0	UNKNOWN	0	38	DOMESTIC
25621		FIELDCREST WATER CO.	41.30000	-75.96556	418	UNKNOWN	44	0	PUBLIC SUPPLY
25622		HAZELTINE,C.D.	41.30056	-75.92278	505	OPEN HOLE	8	80	PUBLIC SUPPLY
25623		DEPARTMENT OF FOREST	41.30056	-76.27083	0	UNKNOWN	0	65	DOMESTIC
25624		DEPARTMENT OF FOREST	41.30083	-76.27167	0	UNKNOWN	0	53	DOMESTIC
25625		DEPT.OF FORESTS AND	41.30111	-76.27250	0	UNKNOWN	0	59	DOMESTIC
25626		COMMONWEALTH OF PENN	41.30139	-76.27389	24	OPEN HOLE	0	17	UNUSED
25627	1/1/1915	PRUTZMAN,R.	41.30222	-75.96861	268	UNKNOWN	0	50	DOMESTIC
25628	8/5/1981	BIBLE FELLOWSHIP	41.30472	-76.08889	250	OPEN HOLE	45	0	OTHER
25629	1/1/1930	ROGERS,J.MRS.	41.30556	-75.97639	147	OPEN HOLE	3	19	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25630	1/1/1923	RUGGLES,M.L.	41.30639	-76.09722	100	OPEN HOLE	75	32	DOMESTIC
25631		RUST,HAROLD	41.30722	-75.93694	400		14	13	DOMESTIC
25632	1/1/1965	MEADOWCREST WATER COMPANY	41.30806	-75.91722	303	OPEN HOLE	14	0	PUBLIC SUPPLY
25633	1/1/1912	HAZELTINE,C.D.	41.30889	-75.93083	285	UNKNOWN	0	0	PUBLIC SUPPLY
25634	1/1/1959	SHAVERTOWN WATER COMPANY	41.30917	-75.93694	463		0	0	PUBLIC SUPPLY
25635		MULLIGAN,E.B.JR.	41.31028	-75.99278	254	OPEN HOLE	50	150	DOMESTIC
25636		HILLCREST WATER CO.	41.31278	-75.94500	490	UNKNOWN	30	0	PUBLIC SUPPLY
25637	1/1/1981	SHAVERTOWN WATER COMPANY	41.31306	-75.94250	493		0	0	PUBLIC SUPPLY
25638	1/1/1952	B.C. BANKS WATER COMPANY	41.31444	-75.91806	403	UNKNOWN	90	35	PUBLIC SUPPLY
25639		STEGMANS FARMS	41.31444	-75.92750	95	OPEN HOLE	4	0	DOMESTIC
25640		MEADOWCREST WATER COMPANY INC.	41.31528	-75.92028	395	OPEN HOLE	29	0	PUBLIC SUPPLY
25641		JOHNSON,G.	41.31556	-76.02306	107	OPEN HOLE	15	40	DOMESTIC
25642		SHAVERTOWN WATE R CO	41.31889	-75.93750	171	UNKNOWN	15	0	PUBLIC SUPPLY
25643		MEADOWCRES WATER CO.	41.32000	-75.91250	475	UNKNOWN	94	0	PUBLIC SUPPLY
25644	1/1/1977	BURGER KING	41.32000	-75.93667	190	UNKNOWN	100	50	COMMERCIAL
25645	1/1/1973	SHAVERTOWN WATER CO.	41.32139	-75.94056	310	UNKNOWN	100	0	PUBLIC SUPPLY
25646	1/1/1953	SHAVERTOWN WATER COMPANY	41.32083	-75.93889	280		0	0	PUBLIC SUPPLY
25647		WESLEY,D.	41.32306	-76.13250	102	UNKNOWN	0	0	DOMESTIC
25648	1/1/1965	SHAVERTOWN-KINGSTON TWP WATER CO.	41.32500	-75.93528	408	OPEN HOLE	0	0	PUBLIC SUPPLY
25649	1/1/1954	SHAVERTOWN WATER COMPANY	41.32333	-75.94500	390		0	0	PUBLIC SUPPLY
25650	1/1/1955	OVERBROOK WATER CO.	41.32417	-75.95194	525	OPEN HOLE	20	0	PUBLIC SUPPLY
25651	1/1/1974	OVERBROOK WATER CO.	41.32417	-75.95194	0		0	0	PUBLIC SUPPLY
25652		OVERBROOK WATER COMPANY INC.	41.32417	-75.95250	300	OPEN HOLE	20	0	PUBLIC SUPPLY
25653		METHODIST EPISC OPAL	41.32500	-75.90167	93	OPEN HOLE	0	0	DOMESTIC
25654	11/1/1980	PA GAS & WATER CO	41.32583	-75.93222	600	OPEN HOLE	2	170	PUBLIC SUPPLY
25655	1/1/1949	BROWNMANOR WATER CO.	41.32611	-75.89667	225	UNKNOWN	90	0	PUBLIC SUPPLY
25656	1/1/1944	SHAVERTOWN-KINGSTON WATER COMPANY	41.32139	-75.93278	350	OPEN HOLE	18	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25657	1/1/1905	BOWMAN,L.	41.32639	-76.14667	115	OPEN HOLE	30	35	DOMESTIC
25659			41.32722	-75.83417	240	OPEN HOLE	0	62	OTHER
25660	1/1/1968	HARRIS HILL ACRES WATER COMPANY	41.32722	-75.91750	0		13	0	PUBLIC SUPPLY
25661	12/1/1949	SHAVERTOWN WATER COMPANY	41.33167	-75.94361	302	OPEN HOLE	0	0	PUBLIC SUPPLY
25662		FERNBROOK MR.	41.32972	-75.94417	128	OPEN HOLE	30	0	DOMESTIC
25663	1/1/1928	HOMESITE WATER COMPANY	41.32972	-75.95194	179	OPEN HOLE	14	0	PUBLIC SUPPLY
25665		DALLAS WATER CO.	41.33056	-75.96028	305	UNKNOWN	12	100	PUBLIC SUPPLY
25666		SHAVERTOWN WATE R CO	41.33111	-75.93944	364	UNKNOWN	10	0	PUBLIC SUPPLY
25667	1/1/1968	MDWY MANOR WATER CO.	41.33472	-75.92056	344	UNKNOWN	40	0	PUBLIC SUPPLY
25668	4/1/1981	ROBO CAR WASH	41.33556	-75.96111	500	OPEN HOLE	125	0	COMMERCIAL
25669		LOYALVILLE SCHO OL	41.33556	-76.10000	156	OPEN HOLE	12	40	DOMESTIC
25670	1/1/1973		41.33583	-76.01389	400	OPEN HOLE	150	98	
25671		OAK HILL WATER CO.	41.33639	-76.01139	400	UNKNOWN	150	0	PUBLIC SUPPLY
25672		LAKE IMPROVEMENT CO.	41.33694	-76.00194	260	OPEN HOLE	18	60	COMMERCIAL
25673		YARRINGTON,MR.	41.33833	-76.00194	115	OPEN HOLE	12	20	DOMESTIC
25674		NATONA MILLS	41.34000	-75.97611	493	OPEN HOLE	0	0	PUBLIC SUPPLY
25675	4/10/1980	ECUMENICAL ENTERPRISE	41.34222	-75.98528	450	UNKNOWN	150	60	PUBLIC SUPPLY
25676	1/1/1965	DALLAS WATER CO.	41.34306	-75.95861	530	UNKNOWN	190	0	PUBLIC SUPPLY
25677	10/1/1978	KELLY, J.	41.34389	-76.07000	600	OPEN HOLE	3	220	DOMESTIC
25678	1/1/1905	WYOMING CAMP GROUND	41.34694	-75.84667	0	OPEN HOLE	0	0	DOMESTIC
25680	1/1/1964	F.B. WHITE BRD WATER COMPANY	41.34861	-76.04944	210	OPEN HOLE	60	0	PUBLIC SUPPLY
25681	1/1/1972	HADONFIELD HILLS WATER COMPANY	41.34917	-75.99139	365	OPEN HOLE	15	0	PUBLIC SUPPLY
25682	1/1/1910	CORSONS,MR.	41.35083	-75.89333	100	OPEN HOLE	0	0	DOMESTIC
25683		HARVEYS LAKE WATER	41.35194	-76.03306	212	UNKNOWN	15	0	PUBLIC SUPPLY
25684		DALLAS WATER CO.	41.35222	-75.98056	153	OPEN HOLE	60	30	PUBLIC SUPPLY
25685		RHOADS TERRACEWTR	41.35417	-76.02972	335		50	0	PUBLIC SUPPLY
25686		ALEKSIW,REV.MR.	41.35444	-76.04556	140	OPEN HOLE	9	16	DOMESTIC
25687	8/23/1977	EVET, R.	41.35778	-75.96111	225	UNKNOWN	15	0	DOMESTIC
25688	1/1/1959	DALLAS WATER CO	41.35833	-75.97028	428	OPEN HOLE	0	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25689	1/1/1932	WARDEN PLACE WATER WORKS	41.36056	-76.02694	550	OPEN HOLE	30	0	PUBLIC SUPPLY
25691	1/1/1932	WARDEN PLACE WATER COMPANY	41.36333	-76.03111	750	OPEN HOLE	45	0	PUBLIC SUPPLY
25692		SANDY BEACH IMPROVEM	41.36361	-76.06722	230	OPEN HOLE	20	150	COMMERCIAL
25693		KITCHEN,W.S.	41.36472	-76.02472	250	UNKNOWN	7	50	PUBLIC SUPPLY
25694		HIGGS,MR.	41.36528	-76.03167	350	OPEN HOLE	22	30	DOMESTIC
25695	1/1/1913	REYNOLDS,COL.D.	41.36722	-75.96083	504	UNKNOWN	8	200	DOMESTIC
25696		MOUNT ZION CHURCH	41.37028	-75.86750	160	OPEN HOLE	6	20	DOMESTIC
25697		VLLY VIEW PARK WATER	41.37222	-75.92778	618	UNKNOWN	95	0	PUBLIC SUPPLY
25698	8/28/1930	RASKIN,N.	41.37306	-76.04972	295	OPEN HOLE	0	105	PUBLIC SUPPLY
25699	8/19/1979	RAMEY, DONALD	41.37444	-76.03833	245	UNKNOWN	9	80	DOMESTIC
25700	6/1/1979	GERLOCK, K.	41.37556	-75.94444	285	UNKNOWN	20	150	DOMESTIC
25701	8/25/1976	KUNKLEUNTD METH CHRCH	41.37639	-75.98306	140	UNKNOWN	40	5	COMMERCIAL
25702	11/1/1980	MENDELSSOH S.	41.37750	-75.92444	800	OPEN HOLE	3	250	DOMESTIC
25704		REDDINGTON,MR.	41.37889	-76.04167	491	OPEN HOLE	15	90	DOMESTIC
25711	1/1/1928	MORRATT,J.	41.38139	-75.99000	259	OPEN HOLE	6	109	DOMESTIC
25712	1/1/1924	OLIVER,MR.	41.38139	-76.05083	240	OPEN HOLE	20	30	DOMESTIC
25713	1/1/1978	FRANCEL, T.	41.38333	-75.98583	200	OPEN HOLE	40	10	DOMESTIC
25714		GORINGER,MR.	41.38361	-75.90444	200	OPEN HOLE	0	60	DOMESTIC
25715	4/2/1976	MININGTON M.	41.38444	-75.90667	375	UNKNOWN	45	167	DOMESTIC
25716	1/7/1976	SCOTT, D.	41.38750	-75.92361	224	UNKNOWN	60	45	DOMESTIC
25717		MECK,W.	41.38806	-75.89556	225		20	60	DOMESTIC
25719		MYERS,CORY	41.39000	-75.96750	215	OPEN HOLE	0	0	DOMESTIC
25720	1/1/1930	MCCOE,CON	41.39056	-75.90500	300	OPEN HOLE	7	40	DOMESTIC
25726	5/1/1965	HAZELTON WATER AUTHORITY	40.94639	-76.05889	516	UNKNOWN	300	0	PUBLIC SUPPLY
25727	10/13/1980	FREELAND MUN AUTH	41.01889	-75.89250	395	OPEN HOLE	250	0	PUBLIC SUPPLY
25728	1/1/1975	WHITE HAVEN MUN AUTH	41.06306	-75.78528	0	OPEN HOLE	120	30	PUBLIC SUPPLY
25729	1/1/1975	WHITE HAVEN MUN AUTH	41.06306	-75.78528	0	OPEN HOLE	45	30	PUBLIC SUPPLY
25730			40.96333	-75.96611	62	UNKNOWN	0	4	
25731	1/24/1967	READLER, HOYT	41.04778	-76.15056	0	OPEN HOLE	15	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25732	8/21/1975	SELIC, ROBERT	41.05000	-76.20750	150	OPEN HOLE	10	0	DOMESTIC
25733			40.93889	-76.05972	587	UNKNOWN	140	4	PUBLIC SUPPLY
25734	1/27/1969	HAZLETON CITY AUTH.	40.95083	-76.06028	500	UNKNOWN	98	6	PUBLIC SUPPLY
25734	1/27/1969	HAZLETON CITY AUTH.	40.95083	-76.06028	500	UNKNOWN	98	6	PUBLIC SUPPLY
25735	1/1/1907	WYOMING VALLEY WATER	40.95139	-76.15306	687	UNKNOWN	35	0	PUBLIC SUPPLY
25736		HAZLETON CITY AUTHOR	40.97056	-76.09167	0		45	0	PUBLIC SUPPLY
25737	3/3/1969	HAZLETON CITY AUTH.	40.98000	-76.01917	0		93	13	PUBLIC SUPPLY
25738		CONYNGHAM WATER CO.	40.98333	-76.05417	230	UNKNOWN	35	0	PUBLIC SUPPLY
25739	1/1/1914	JEDDO HIGHLAND COAL	40.98667	-75.93861	171	UNKNOWN	50	0	PUBLIC SUPPLY
25740	1/1/1915	HUTTON,GUY	40.98750	-76.05750	266	OPEN HOLE	33	80	PUBLIC SUPPLY
25741		CONYNGHAM WATER CO.	40.99306	-76.05778	255	UNKNOWN	20	0	PUBLIC SUPPLY
25742		CONYNGHAM WATER CO.	40.99333	-76.05833	347	UNKNOWN	25	0	PUBLIC SUPPLY
25743		FREELAND WATER	41.00028	-75.89139	200	OPEN HOLE	25	0	PUBLIC SUPPLY
25744	3/1/1981	VISINTAINE NURSERY	41.00694	-75.96972	160	OPEN HOLE	20	15	COMMERCIAL
25745	10/1/1980	HOWER, M.	41.01000	-75.95611	160	OPEN HOLE	30	25	DOMESTIC
25746		WYOMING VALLEY WATER	41.01194	-75.91556	600	OPEN HOLE	100	60	PUBLIC SUPPLY
25747	1/1/1979	LETCHER, R.	41.01444	-75.99111	140	OPEN HOLE	0	37	DOMESTIC
25748	10/1/1980	HAMILTON, ELBERT	41.01583	-75.99861	320	OPEN HOLE	0	63	DOMESTIC
25749			41.01667	-75.89222	425	OPEN HOLE	8	0	UNUSED
25750		FREELAND WATER CO.	41.01694	-75.89306	287	OPEN HOLE	150	0	PUBLIC SUPPLY
25751			41.01722	-75.89139	225	OPEN HOLE	0	0	PUBLIC SUPPLY
25752	11/1/1980	CRESSMAN, D.	41.02972	-75.96111	475	OPEN HOLE	6	52	DOMESTIC
25753	4/4/1979	STROUD, JODY	41.03028	-75.99056	240	OPEN HOLE	25	50	DOMESTIC
25754	5/17/1976	BONITA, R.	41.04444	-75.96278	120	UNKNOWN	20	35	DOMESTIC
25755	1/1/1908	PENNHURST STATESCHOO	41.05556	-75.78139	440	UNKNOWN	30	156	INSTITUTIONAL
25756	10/20/1980	U.S. GEOL. SURVEY	41.05889	-76.19806	200	OPEN HOLE	0	23	UNUSED
25757	10/21/1980	U.S. GEOL. SURVEY	41.05889	-76.19806	55	UNKNOWN	0	20	UNUSED
25758		FELIX, RUDY	41.06222	-76.15639	471	UNKNOWN	0	23	DOMESTIC
25759	7/9/1973	DAVIS, WILLIAM	41.06694	-76.16556	100	OPEN HOLE	0	7	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25760	10/16/1980	U.S. GEOL. SURVEY	41.06861	-76.15139	300	OPEN HOLE	0	51	UNUSED
25761	2/1/1980	SMITH, BRAD	41.07056	-76.16083	130	OPEN HOLE	0	37	DOMESTIC
25762	10/14/1980	U.S. GEOL. SURVEY	41.07222	-76.15194	102	PERFORATED OR SLOTTED	0	62	UNUSED
25763	11/1/1979	CORRELL, N.	41.07278	-75.99639	265	OPEN HOLE	6	20	DOMESTIC
25764	8/1/1980	WATTS	41.07278	-76.18889	230	OPEN HOLE	0	72	DOMESTIC
25765	10/18/1978	TANEY, ZANE	41.07389	-75.99167	200	UNKNOWN	8	20	DOMESTIC
25766	11/8/1978	VALAITIS, L.	41.07694	-75.97472	220	UNKNOWN	10	35	DOMESTIC
25767	7/3/1974	WEADON BILL	41.08472	-76.19167	125	OPEN HOLE	0	38	DOMESTIC
25768	7/5/1972	BRADER, HERB	41.08944	-76.18056	100	OPEN HOLE	0	35	DOMESTIC
25769	1/22/1973	PA. POWER AND LIGHT	41.09528	-76.13028	58	UNKNOWN	0	8	INDUSTRIAL
25770	10/1/1973	PA. POWER AND LIGHT	41.09528	-76.13528	0		65	9	INDUSTRIAL
25771	10/1/1973	PA. POWER AND LIGHT	41.09556	-76.13528	0		150	17	INDUSTRIAL
25772	8/1/1977	DAVID, WILLIAM	41.10556	-75.97556	200	OPEN HOLE	3	15	DOMESTIC
25773	10/20/1978	MYERS, RICHARD	41.11139	-75.95333	250	UNKNOWN	10	40	DOMESTIC
25774	9/20/1973	BOSTON, ROBERT	41.11861	-76.16611	175	OPEN HOLE	6	0	DOMESTIC
25775	9/25/1978	HEROLD, J.	41.12000	-75.95556	220	UNKNOWN	35	0	DOMESTIC
25776	1/1/1981	SCHWARTZ, C.	41.12083	-75.96333	180	OPEN HOLE	20	20	DOMESTIC
25777	10/1/1978	WASKIEWCZ, JOHN	41.14222	-75.98833	225	UNKNOWN	0	36	DOMESTIC
25778	1/1/1966	BLUE COAL CO	41.14500	-76.14083	170	OPEN HOLE	10	57	UNUSED
25779	1/1/1967	BLUE COAL CO	41.14639	-76.12611	305	OPEN HOLE	10	155	UNUSED
25780	1/1/1967	BLUE COAL CO	41.14639	-76.12611	315	OPEN HOLE	10	152	UNUSED
25781	1/1/1966	BLUE COAL CO	41.14778	-76.11472	80	OPEN HOLE	10	1	UNUSED
25782	1/1/1967	BLUE COAL CO	41.14944	-76.11750	115	OPEN HOLE	12	60	UNUSED
25783	1/1/1967	BLUE COAL CO	41.15028	-76.14444	55	OPEN HOLE	10	22	UNUSED
25784	8/1/1977	FULLER, P.	41.15139	-75.96778	404	OPEN HOLE	0	43	DOMESTIC
25785	1/1/1966	BLUE COAL CO	41.15194	-76.09639	73	OPEN HOLE	10	18	UNUSED
25786	1/1/1967	BLUE COAL CO	41.15194	-76.13278	485	OPEN HOLE	10	185	UNUSED
25787	1/1/1967	BLUE COAL CO	41.15778	-76.12333	185	OPEN HOLE	10	118	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25788	12/1/1979	GIRTON, R.	41.15833	-75.94333	210	OPEN HOLE	0	88	DOMESTIC
25789	1/1/1967	BLUE COAL CO	41.16222	-76.11000	405	PERFORATED OR SLOTTED	10	1	UNUSED
25790	1/1/1967	BLUE COAL CO	41.16278	-76.12417	235	OPEN HOLE	1	0	UNUSED
25791	1/1/1967	U S GEOLOGICAL SURVE	41.16389	-76.09611	901	PERFORATED OR SLOTTED	10	342	UNUSED
25792	1/1/1980	STEPHENS, A.	41.16722	-75.93056	300	OPEN HOLE	3	300	DOMESTIC
25793	9/1/1979	GOODSTEIN, W.	41.16972	-75.88583	190	OPEN HOLE	25	0	DOMESTIC
25794	1/1/1924	WOODLAWN DAIRY CO.	41.19167	-76.23139	249	OPEN HOLE	12	0	INDUSTRIAL
25795	1/1/1910	CROUP,S.	41.20611	-76.06639	375	OPEN HOLE	6	14	DOMESTIC
25796		LUZERNE COUNTY GAS A	41.20639	-76.06944	48	SCREEN	100	21	INDUSTRIAL
25797	1/1/1938	LESKO-BARNEY	41.22083	-75.97222	26	WALLED	260	21	IRRIGATION
25798	1/1/1905	MEDLEY, JAMES	41.22361	-76.02139	298	OPEN HOLE	0	0	PUBLIC SUPPLY
25799	1/1/1930	HORN DAIRY	41.24194	-75.89944	45	OPEN END	0	17	INDUSTRIAL
25800	1/1/1930	LESKO-BARNEY	41.24694	-75.91056	30	UNKNOWN	600	25	IRRIGATION
25801	1/1/1935	GARRAHAN FARMS	41.25250	-75.89944	21	PERFORATED OR SLOTTED	90	10	IRRIGATION
25802		KASARDA,MICHAEL	41.25611	-75.90083	24	OPEN END	0	16	IRRIGATION
25803	1/1/1971	BUREAU OF MINES	41.25972	-75.88500	87	SCREEN	0	9	UNUSED
25804	1/1/1971	BUREAU OF MINES	41.25972	-75.88500	363	OPEN HOLE	0	10	UNUSED
25805	1/1/1933	LESCO-BARNEY	41.26111	-75.90111	19	PERFORATED OR SLOTTED	5	0	IRRIGATION
25806		STATE CORRECTIONAL I	41.27583	-76.02083	435	OPEN HOLE	325	16	INSTITUTIONAL
25807	1/1/1935	PRICE,T.G.	41.28139	-75.86333	29	OPEN END	0	21	IRRIGATION
25808	1/1/1966	U.S.GEOLOGICAL SURVE	41.28500	-75.88250	40	GRAVEL PACK W/ SCREEN	0	22	UNUSED
25809	1/1/1966	U.S.GEOLOGICAL SURVE	41.29917	-75.84944	40	OPEN END	0	30	UNUSED
25810	1/1/1947	COMMONWEALTH OF PENN	41.30000	-76.27361	160	OPEN HOLE	20	43	UNUSED
25811	1/1/1952	CMB CORPORATION	41.30972	-75.84361	25	WALLED	93	16	UNUSED
25812	1/5/1981	RIABUBIA, G.	41.31111	-76.06917	275	OPEN HOLE	0	7	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
25813		SHAVERTOWN WATER CO.	41.31861	-75.94361	205	OPEN HOLE	18	0	PUBLIC SUPPLY
25814		STILL,WILLIAM	41.32639	-75.94056	244	OPEN HOLE	18	40	DOMESTIC
25815		WHITESELL BROTHERS W	41.33194	-75.91806	500	OPEN HOLE	150	100	PUBLIC SUPPLY
25816		DALLAS WATER CO.	41.33389	-75.93528	580	UNKNOWN	12	0	PUBLIC SUPPLY
25817		DALLAS WATER CO	41.33667	-75.96278	498	OPEN HOLE	0	0	PUBLIC SUPPLY
25818		WHITESELL BROTHERS W	41.33750	-76.01389	229	OPEN HOLE	12	60	PUBLIC SUPPLY
25819		WHITESELL BROTHERS W	41.33750	-76.01389	400	UNKNOWN	65	0	PUBLIC SUPPLY
25821		DALLAS WATER CO	41.33889	-75.97000	390	OPEN HOLE	0	0	PUBLIC SUPPLY
25822		DALLAS WATER CO	41.34028	-75.97750	235	UNKNOWN	0	0	PUBLIC SUPPLY
25823		NATONA MILLS	41.34028	-75.97833	500	OPEN HOLE	85	0	PUBLIC SUPPLY
25824	7/1/1978	WYOMING NATL BANK	41.34194	-75.99417	300	OPEN HOLE	60	80	COMMERCIAL
25825		HADONFIELD HILLSWATER	41.35083	-75.99500	0		0	0	PUBLIC SUPPLY
25826		LAKE IMPROVEMENT CO.	41.35333	-76.03222	212	OPEN HOLE	25	0	COMMERCIAL
25827	1/1/1910	DALLAS WATER CO .	41.35778	-75.97111	188	OPEN HOLE	50	70	PUBLIC SUPPLY
25829	11/15/1976	SEDLACK, M.	41.36806	-76.08889	265	UNKNOWN	12	45	DOMESTIC
25830	1/1/1910	LAKETON WATER CO.	41.37056	-76.05889	278	OPEN HOLE	0	135	PUBLIC SUPPLY
25999	9/1/1979	GORDNER, D.	41.20972	-76.54528	148	OPEN HOLE	30	6	DOMESTIC
26031	11/1/1980	BRINKMAN, R.	41.21889	-76.57917	260	OPEN HOLE	0	41	DOMESTIC
26033	3/16/1977	STINE, KEN	41.21972	-76.51667	162	UNKNOWN	0	0	DOMESTIC
26068	5/23/1977	GORDNER, G.	41.23000	-76.51944	148	OPEN HOLE	8	0	FIRE
26161	4/23/1979	HALL, D.	41.24750	-76.49722	148	OPEN HOLE	4	0	DOMESTIC
26200		ROBBINS, THERON	41.25917	-76.48611	75	UNKNOWN	0	0	PUBLIC SUPPLY
26203	11/1/1980	CHARLES, R.	41.26083	-76.48944	173	OPEN HOLE	0	52	DOMESTIC
26212	10/10/1980	CHARLES, B.	41.26306	-76.48611	148	OPEN HOLE	8	0	DOMESTIC
26249	9/1/1979	BRESSLER, R.	41.27667	-76.53611	400	OPEN HOLE	1	0	DOMESTIC
28634		BARNES, WILLIAM	40.96694	-76.52306	197	UNKNOWN	14	68	OTHER
28635	9/14/1978	MAHONING TWP. AUTH.	40.96750	-76.57833	298	OPEN HOLE	15	0	PUBLIC SUPPLY
28636	11/1/1981	PINEBROOK HOMES	40.97583	-76.59083	223		18	60	DOMESTIC
28637	10/1/1981	CADY, JOSEPH	40.99278	-76.59194	250	OPEN HOLE	6	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
28638		SANTINI, L.	40.98639	-76.56944	0		1	165	
28639	5/1/1979	KOCKER, LOT 14	40.99667	-76.60694	170	UNKNOWN	6	30	DOMESTIC
28641	6/4/1974	HUMMER, JAY	41.00667	-76.60389	172	OPEN HOLE	0	42	DOMESTIC
28642		BINDER, J.	41.00833	-76.58444	150		0	39	
28656	6/1/1975	BURKE, JOHN	40.99972	-76.59528	155	OPEN HOLE	0	27	DOMESTIC
28658	1/1/1976	HARTMAN, CARL L	41.00056	-76.60278	100	OPEN HOLE	15	0	DOMESTIC
28660	10/17/1967	DITTY, DARWIN	41.00167	-76.61778	70	OPEN HOLE	10	30	DOMESTIC
28661	5/6/1968	KISTNER, JOSEPH	41.00167	-76.62333	74	OPEN HOLE	6	20	DOMESTIC
28662	8/1/1981	SIATS, JOSEPH	41.00222	-76.60917	175	UNKNOWN	25	0	DOMESTIC
28663	8/5/1980	WETZEL, DANIEL	41.00222	-76.61028	125	OPEN HOLE	0	4	DOMESTIC
28664	7/10/1968	ROBERTS, MARK J	41.00222	-76.62222	82	OPEN HOLE	30	42	DOMESTIC
28665	4/29/1967	TANNER, HOWARD J	41.00417	-76.61583	95	OPEN HOLE	8	30	DOMESTIC
28666	4/1/1975	HESS, JOE	41.00417	-76.62028	195	OPEN HOLE	10	40	DOMESTIC
28667	1/1/1976	MORRIS, GARY	41.00444	-76.61611	0		0	51	DOMESTIC
28668	1/1/1974	HESS, JOE	41.00444	-76.61944	135	UNKNOWN	3	0	DOMESTIC
28670	11/1/1975	HESS, BEN	41.00583	-76.62417	275	OPEN HOLE	6	0	DOMESTIC
28672	1/1/1977	HESS, BEN	41.00667	-76.62361	275	UNKNOWN	10	0	DOMESTIC
28675	1/1/1978	HESS, BEN	41.00694	-76.62444	315	OPEN HOLE	0	96	DOMESTIC
28677	5/23/1977	EDMEADS, SCOTT	41.00889	-76.61167	198	OPEN HOLE	60	40	DOMESTIC
28698	10/26/1977	GRAY, CLYDE	41.03556	-76.59667	105	OPEN HOLE	8	0	DOMESTIC
28705	4/13/1968	MAUSTELLER MIKE H	41.04222	-76.56639	153	OPEN HOLE	0	35	DOMESTIC
28708	11/30/1977	SYNDER, LINDA	41.04500	-76.59500	215	OPEN HOLE	0	12	DOMESTIC
28713	6/14/1967	MOSER, FRED	41.04833	-76.63556	50	UNKNOWN	15	5	DOMESTIC
28721	2/13/1973	DAVIS, HARVEY L	41.05750	-76.60833	80	UNKNOWN	10	26	DOMESTIC
28724	8/15/1973	DAY, WAYNE	41.06333	-76.62778	250	UNKNOWN	1	10	DOMESTIC
28725	8/25/1972	BARTLETT, NORMA	41.06556	-76.63222	218	UNKNOWN	4	0	DOMESTIC
28726		BEILER, JONAS	41.06750	-76.63611	268	UNKNOWN	0	15	DOMESTIC
28727	1/1/1976	BEILER, JONAS	41.06750	-76.63611	285	UNKNOWN	3	6	DOMESTIC
28732	2/2/1979	STOLTZFUS, S.	41.07278	-76.62750	180	OPEN HOLE	0	13	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
28736	7/1/1980	BRYFOGLE, KENNETH	41.07583	-76.07639	250	UNKNOWN	25	18	COMMERCIAL
28737	9/1/1967	ROBBINS, DONALD W	41.07667	-76.61750	76	OPEN HOLE	15	5	DOMESTIC
28738	4/2/1974	BROWN, SANFORD	41.08083	-76.63472	346	UNKNOWN	0	26	DOMESTIC
28743	5/1/1978	SHEATLER, BRYON	41.10111	-76.63083	155	UNKNOWN	4	20	DOMESTIC
28744	2/27/1968	HOLDREN, GEORGE A	41.10278	-76.62972	155	UNKNOWN	5	6	DOMESTIC
28751	4/30/1968	SOMMERS, DALE	41.10556	-76.63667	304	UNKNOWN	1	25	DOMESTIC
28759		MCGARGLE	41.11500	-76.63278	257	UNKNOWN	4	10	DOMESTIC
28760	2/1/1967	DEWALD, ALLEN	41.11583	-76.63278	130	UNKNOWN	0	18	DOMESTIC
28761	8/22/1966	HERSHEY	41.11611	-76.63306	170	UNKNOWN	20	25	DOMESTIC
28764	8/22/1966	MCWILLIAMS KARL	41.11750	-76.63528	70	UNKNOWN	30	20	DOMESTIC
28765	1/1/1977	MCCOLLUM, ROSS	41.11778	-76.63111	195	UNKNOWN	0	25	DOMESTIC
28768	11/1/1981	KEENER	40.95639	-76.53778	273		5	0	DOMESTIC
28769	4/25/1968	BROWN CATERING	40.95667	-76.54389	390	OPEN HOLE	60	117	COMMERCIAL
28770	8/3/1967	KRUM, JOHN	40.95778	-76.58806	88	OPEN HOLE	0	57	DOMESTIC
28773	1/1/1960	MARIA JOSEPH MAN	40.96083	-76.57917	610	UNKNOWN	62	0	INSTITUTIONAL
28774	1/1/1961	MARIA JOSEPH MAN	40.96083	-76.57917	257	UNKNOWN	50	0	INSTITUTIONAL
28775	1/1/1965	MARIA JOSEPH MAN	40.96083	-76.57917	350		0	8	INSTITUTIONAL
28776		MARIA JOSEPH MAN	40.96083	-76.57917	210	UNKNOWN	50	0	INSTITUTIONAL
28777	3/30/1968	FENSTERMAC MYRON	40.96472	-76.60333	80	OPEN HOLE	6	28	DOMESTIC
28778	6/26/1967	ALBECK, KLINE	40.96556	-76.59083	216	OPEN HOLE	7	49	DOMESTIC
28779	10/12/1966	CONFER, CHARLES A	40.96611	-76.58694	190	OPEN HOLE	3	66	DOMESTIC
28780	11/2/1966	WEAVER, RUSSELL	40.96667	-76.58444	190	OPEN HOLE	7	50	DOMESTIC
28781	11/11/1981	BARNES, WILLIAM	40.96722	-76.52306	200	UNKNOWN	0	58	OTHER
28782	3/3/1975	LINKER, WILLIAM	40.96722	-76.53611	123	UNKNOWN	0	19	DOMESTIC
28783	8/1/1969	MAHONING TWP. AUTH.	40.96750	-76.57833	332	OPEN HOLE	50	0	PUBLIC SUPPLY
28784	8/1/1969	MAHONING TWP. AUTH.	40.96750	-76.57833	328	OPEN HOLE	50	46	PUBLIC SUPPLY
28785	10/30/1978	MAHONING TWP. AUTH.	40.96750	-76.57833	298	OPEN HOLE	100	116	PUBLIC SUPPLY
28786	1/1/1930	GEISINGER MED CENTER	40.96750	-76.60750	528	UNKNOWN	26	68	INSTITUTIONAL
28787	8/26/1977	HOUSEKNECT HARVEY	40.96778	-76.56861	185	UNKNOWN	20	125	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
28788	7/14/1978	SEITZ, C.	40.96806	-76.56528	213	UNKNOWN	30	96	DOMESTIC
28789	12/18/1967	RILEY, LEWIS	40.96806	-76.59667	95	OPEN HOLE	15	40	DOMESTIC
28790	8/16/1967	ADAMS, CHESTER	40.96861	-76.55667	165	UNKNOWN	20	60	DOMESTIC
28791	7/3/1968	PENNA. S.P.C.A.	40.96944	-76.55778	75	UNKNOWN	40	35	DOMESTIC
28792	1/1/1965	GEISINGER MED CENTER	40.96944	-76.60722	314	UNKNOWN	190	0	INSTITUTIONAL
28793		GEISINGER MED CENTER	40.96944	-76.60750	400	UNKNOWN	60	0	INSTITUTIONAL
28794	1/1/1961	GEISINGER MED CENTER	40.96944	-76.60778	300	UNKNOWN	60	0	INSTITUTIONAL
28796	12/28/1967	CLEVELL VENDING	40.97028	-76.53750	88	UNKNOWN	10	11	DOMESTIC
28797	12/2/1975	MCCAFFERY, ROBERT	40.97028	-76.56750	115	UNKNOWN	50	0	DOMESTIC
28799	10/30/1974	SCHULLER D	40.97056	-76.56667	155	UNKNOWN	8	20	DOMESTIC
28800	11/19/1975	FRY, ROBERT L	40.97111	-76.53667	215	UNKNOWN	0	42	DOMESTIC
28801	7/22/1966	FROSTY VALLEY CC	40.97111	-76.57361	213	OPEN HOLE	7	0	IRRIGATION
28802	10/2/1974	HARTMAN, STUART	40.97139	-76.53917	169	UNKNOWN	0	83	DOMESTIC
28803	12/4/1967	HUBICKI, JOHN	40.97250	-76.61000	115	OPEN HOLE	5	57	DOMESTIC
28804	10/12/1966	SAIENNI, GOVEN	40.97250	-76.61000	255	OPEN HOLE	4	20	DOMESTIC
28805	2/22/1968	HUBICKI, JOHN	40.97250	-76.61000	205	OPEN HOLE	20	30	DOMESTIC
28806	8/15/1977	PAPPAS, GEORGE	40.97278	-76.57861	198	OPEN HOLE	5	30	DOMESTIC
28807	1/20/1976	MITCHELL, TRUMAN O	40.97278	-76.59111	215	OPEN HOLE	6	0	DOMESTIC
28809	7/15/1968	HENRY, HAROLD T	40.97306	-76.56806	215	UNKNOWN	12	50	DOMESTIC
28810	12/3/1975	ALBERTINI, ROBERT	40.97333	-76.56917	195	UNKNOWN	6	0	DOMESTIC
28811	8/29/1973	STAMEY, HARRY C	40.97389	-76.56917	150	UNKNOWN	8	44	DOMESTIC
28815		STANKO, J.	40.97472	-76.59583	200	UNKNOWN	0	0	DOMESTIC
28816	7/5/1978	RAUP, W.	40.97500	-76.59306	200	OPEN HOLE	0	30	DOMESTIC
28820	1/28/1966	MAHONING TWP. AUTH.	40.97583	-76.58639	305	UNKNOWN	12	0	PUBLIC SUPPLY
28821	9/26/1960	MAHONING TWP. AUTH.	40.97583	-76.58639	312	OPEN HOLE	111	0	PUBLIC SUPPLY
28822	4/22/1966	BLUE, JAMES	40.97611	-76.57611	100	OPEN HOLE	6	0	DOMESTIC
28823	1/1/1960	MAHONING TWP. AUTH.	40.97639	-76.58722	0	UNKNOWN	10	0	PUBLIC SUPPLY
28824	1/1/1960	MAHONING TWP. AUTH.	40.97639	-76.58778	0	UNKNOWN	10	0	PUBLIC SUPPLY
28826	10/1/1979	HAGENBUCH, JAMES C	40.97750	-76.62056	261	OPEN HOLE	0	117	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
28831	1/1/1979	ACKERMAN, KENNETH	40.97944	-76.58139	136	UNKNOWN	0	2	
28832	4/22/1982	FORNEY, THOMAS	40.97972	-76.57056	223	OPEN HOLE	6	0	DOMESTIC
28833	2/1/1979	KEITER, CHARLES	40.98028	-76.58222	300	OPEN HOLE	0	-70	PUBLIC SUPPLY
28834	8/1/1981	COOK, MARK	40.98056	-76.57083	189	OPEN HOLE	3	18	DOMESTIC
28835		JAMES, EDWARD	40.98111	-76.58278	150	UNKNOWN	30	0	DOMESTIC
28844	6/16/1977	MORDAN, LARRY	40.98639	-76.62056	128	OPEN HOLE	0	59	DOMESTIC
28852	12/8/1975	HARTMAN, MILTON	40.99167	-76.57389	175	OPEN HOLE	0	3	DOMESTIC
28853	8/1/1980	PINEBROOK HOMES	40.99222	-76.59250	153	UNKNOWN	2	0	DOMESTIC
28857	1/1/1977	FIRST BABT IST CHURCH	40.99528	-76.61778	70	OPEN HOLE	20	10	DOMESTIC
28867	5/1/1979	KOCKER LOT 8	40.99667	-76.60694	145	UNKNOWN	20	35	DOMESTIC
28868	5/1/1979	KOCKER LOT 9	40.99667	-76.60694	200	UNKNOWN	5	30	DOMESTIC
28869	11/1/1978	KOCKER LOT 3	40.99667	-76.61556	95	UNKNOWN	15	30	DOMESTIC
28870	7/1/1978	KOCKER LOT 4	40.99667	-76.61556	140	OPEN HOLE	5	50	DOMESTIC
28871	7/1/1978	KOCKER LOT 5	40.99667	-76.61556	170	OPEN HOLE	5	40	DOMESTIC
28872	11/1/1978	KOCKER LOT 6	40.99667	-76.61556	170	OPEN HOLE	12	45	DOMESTIC
28873	9/1/1978	KOCKER LOT 6	40.99667	-76.61556	170	OPEN HOLE	5	40	DOMESTIC
28874	11/1/1978	KOCKER LOT 9	40.99667	-76.61556	155	UNKNOWN	7	40	DOMESTIC
28889	1/1/1908	MT. CARMEL WATER CO	40.78389	-76.41889	1180	OPEN HOLE	120	0	PUBLIC SUPPLY
28902			40.80194	-76.44833	520		0	0	UNUSED
28908			40.80583	-76.43806	854		0	88	UNUSED
28912			40.81333	-76.40667	0		0	0	UNUSED
28913	1/1/1975		40.81639	-76.46083	521	OPEN HOLE	0	411	UNUSED
28929	6/3/1976	ALL SAINTS CEMENTARY	40.84472	-76.51778	125	OPEN HOLE	20	0	DOMESTIC
29130			40.85056	-76.52056	0		0	0	
29210	1/1/1960	BROUSE, WAYNE	40.93667	-76.58944	83	OPEN HOLE	35	0	
29211	7/13/1966	SHAFFER, ALLEN	40.93750	-76.56667	80	OPEN HOLE	0	30	DOMESTIC
31494			40.73417	-76.12333	0		0	0	UNUSED
31496			40.73500	-76.20056	0		0	0	UNUSED
31499			40.74028	-76.19778	0		0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31503	1/1/1965	BLYTHE TOWNSHIP MUN. AUTH.	40.74806	-76.12833	525	OPEN HOLE	130	0	UNUSED
31504	1/1/1965	BLYTHE TOWNSHIP MUN. AUTH.	40.74833	-76.13000	500	OPEN HOLE	30	0	UNUSED
31507		HOFFMAN RUTH	40.75056	-76.06278	18	OPEN HOLE	0	0	DOMESTIC
31509	11/15/1977	LONG, R.	40.75083	-76.33528	162	OPEN HOLE	40	40	DOMESTIC
31511	1/1/1977	OHARA, FRANK	40.75139	-76.03556	120	OPEN HOLE	18	55	DOMESTIC
31512	5/1/1977	HROMYAK, MICHAEL	40.75222	-76.03361	135	OPEN HOLE	0	39	DOMESTIC
31513			40.75333	-76.04861	0		0	0	UNUSED
31515		BOTELLA, VICKI	40.75444	-76.31972	125	UNKNOWN	0	35	DOMESTIC
31516		BOTELLA, VICKI	40.75472	-76.32083	58	UNKNOWN	0	32	UNUSED
31517		MARY D SERVICE STATI	40.75500	-76.05667	42	OPEN HOLE	0	0	UNUSED
31518	12/5/1980	SCHUYLKILL MUN. AUTH.	40.75583	-76.17167	404	OPEN HOLE	0	22	PUBLIC SUPPLY
31519	3/30/1972	SCHUYLKILL MUN. AUTH.	40.75694	-76.20556	304	UNKNOWN	30	35	UNUSED
31520	7/1/1966	ZIMMERMAN, LEIBY	40.75750	-76.02417	407	OPEN HOLE	22	70	COMMERCIAL
31521			40.75861	-76.04917	0		0	0	UNUSED
31523	8/1/1924	HATCHEL JOE	40.75972	-76.34889	100	OPEN HOLE	0	0	DOMESTIC
31524		ASHLAND PURE ICE CO	40.75972	-76.34889	198	OPEN HOLE	35	0	UNUSED
31525	7/5/1982	FETTEROLE, JAMES	40.76000	-76.31056	140	OPEN HOLE	0	19	DOMESTIC
31527			40.76056	-76.11028	0		0	0	UNUSED
31528			40.76056	-76.11083	0		0	0	UNUSED
31529	10/1/1978	PRICE, WILLIAM G	40.76167	-76.30083	300	OPEN HOLE	0	75	DOMESTIC
31530	3/21/1977	PAUL, ELLIS	40.76250	-76.31944	460	OPEN HOLE	40	128	DOMESTIC
31533	6/1/1982	MILLER, JAMES	40.76417	-76.29389	215	OPEN HOLE	0	57	DOMESTIC
31534	8/18/1950	BLYTHE TOWNSHIP WATE	40.76472	-76.08028	1050	OPEN HOLE	45	0	PUBLIC SUPPLY
31535	1/1/1947	WPAM	40.76611	-76.14806	139	OPEN HOLE	20	0	DOMESTIC
31536	3/13/1972	SCHUYLKILL MUN. AUTH.	40.76611	-76.21694	205	OPEN HOLE	35	0	UNUSED
31537	12/1/1980	FOUNTAIN SPGS C.C.	40.76611	-76.33417	435	OPEN HOLE	70	92	IRRIGATION
31538		STEINMETZ H	40.76750	-76.03500	52	OPEN HOLE	10	15	DOMESTIC
31539	5/15/1978	BARAN, ANTHONY	40.76750	-76.33000	322	OPEN HOLE	0	47	DOMESTIC
31540	11/1/1980	SCHUYLKILL MUN. AUTH.	40.76778	-76.24222	425	OPEN HOLE	12	12	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31541	5/1/1977	BARAN, ANTHONY	40.76944	-76.32194	102	OPEN HOLE	0	21	DOMESTIC
31542	7/1/1931	MILLER, M L	40.76944	-76.33000	455	OPEN HOLE	30	185	DOMESTIC
31543			40.77000	-76.03222	0		0	0	UNUSED
31544	1/1/1971	GEORGE, WILLIAM	40.77000	-76.31111	185	OPEN HOLE	20	78	DOMESTIC
31545	1/1/1931	ASHLAND ST. HOSP.	40.77000	-76.33056	419	OPEN HOLE	65	168	COMMERCIAL
31546	4/1/1978	JOHNSON, MELVIN	40.77056	-76.28167	150	OPEN HOLE	0	52	DOMESTIC
31547	2/1/1925	SELZER BUD	40.77083	-76.32389	70	OPEN HOLE	0	0	DOMESTIC
31548		FOUNTAIN SPR BEV CO	40.77083	-76.32389	120	OPEN HOLE	10	0	INDUSTRIAL
31549	1/1/1968	BOYER, MALCOLM	40.77111	-76.29444	242	OPEN HOLE	3	0	DOMESTIC
31550	8/1/1978	SAMELKO, JAMES	40.77278	-76.29389	230	OPEN HOLE	0	70	DOMESTIC
31551	8/28/1979	WETZEL, R.	40.77278	-76.29611	260	UNKNOWN	0	50	DOMESTIC
31552	7/1/1977	STAHLER, FRANKLIN	40.77306	-75.97500	225	OPEN HOLE	10	68	DOMESTIC
31553	8/1/1980	HEINTZLMAN D.	40.77306	-76.29778	140	OPEN HOLE	10	50	DOMESTIC
31554			40.77333	-76.37083	0		0	0	UNUSED
31555	8/1/1980	WATKINS, G. H	40.77417	-76.27778	180	OPEN HOLE	0	39	RECREATION
31556	8/1/1980	ASHLAND BOROUGH	40.77444	-76.25417	40	OPEN HOLE	60	0	PUBLIC SUPPLY
31557	7/29/1982	KEYSTONE WATER CO.	40.77556	-76.22778	362	OPEN HOLE	220	0	PUBLIC SUPPLY
31557	7/29/1982	KEYSTONE WATER CO.	40.77556	-76.22778	362	OPEN HOLE	220	0	PUBLIC SUPPLY
31558	6/1/1982	KEYSTONE WATER CO.	40.77611	-76.22472	550	OPEN HOLE	0	16	PUBLIC SUPPLY
31559		MT CITY WATER CO.	40.77750	-76.23111	320	OPEN HOLE	200	10	UNUSED
31560		KEYSTONE WATER CO	40.77750	-76.23167	500	OPEN HOLE	0	0	PUBLIC SUPPLY
31561		MT CITY WATER CO	40.77750	-76.23250	452	OPEN HOLE	350	-6	PUBLIC SUPPLY
31562		METRAPOLITAN MIRROR	40.77778	-76.22556	0	OPEN HOLE	129	0	INDUSTRIAL
31563	4/1/1976	LUSCAVAGE, VINCENT P	40.77806	-76.22333	122	OPEN HOLE	0	19	DOMESTIC
31564	6/1/1966	STOUDT, JOHN	40.77889	-75.98028	214	OPEN HOLE	11	55	DOMESTIC
31565		MOUNTAIN CITY WATER	40.77944	-76.23278	535	OPEN HOLE	110	0	UNUSED
31566		MOUNTAIN CITY WATER	40.77944	-76.23278	525	OPEN HOLE	150	8	UNUSED
31567		EMERICK W	40.78028	-75.98389	103	OPEN HOLE	0	0	DOMESTIC
31568	4/1/1969	LOCUST LAKE STATE PARK	40.78056	-76.12917	254	OPEN HOLE	300	5	RECREATION

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31569	5/1/1968	GERA, LUCY	40.78083	-76.21056	90	OPEN HOLE	45	18	DOMESTIC
31570	7/1/1980	ASHLAND BOROUGH	40.78167	-76.25750	425	OPEN HOLE	0	5	UNUSED
31571	1/30/1981	MAKAUSKAS, J.	40.78194	-76.21694	262	OPEN HOLE	5	30	DOMESTIC
31572	1/1/1928	SHELHEIMER	40.78222	-75.96028	100	OPEN HOLE	25	21	INDUSTRIAL
31573	10/1/1969	CHOWANSKY, JOHN	40.78222	-76.24583	153	OPEN HOLE	10	130	DOMESTIC
31574			40.78250	-76.18194	0		0	0	UNUSED
31575	7/1/1980	SAVAKINAS, F.	40.78250	-76.25083	120	OPEN HOLE	15	43	DOMESTIC
31576	11/17/1975	SWADE,	40.78278	-76.24250	577	OPEN HOLE	30	105	DOMESTIC
31577	8/1/1969	BOLINSKY, LEONARD	40.78278	-76.24528	95	OPEN HOLE	30	75	DOMESTIC
31578	1/1/1915	MT CITY WATER CO.	40.78333	-76.23333	651	OPEN HOLE	45	9	PUBLIC SUPPLY
31579	1/1/1912	MT CITY WATER CO.	40.78333	-76.23333	520	OPEN HOLE	95	8	PUBLIC SUPPLY
31580	1/1/1904	MT CITY WATER CO.	40.78472	-76.23528	402	OPEN HOLE	120	4	PUBLIC SUPPLY
31581	2/6/1981	REMALEY, C.	40.78417	-76.33000	382	OPEN HOLE	15	6	COMMERCIAL
31582	1/1/1974	PA DER	40.78444	-76.32861	274	OPEN HOLE	0	44	UNUSED
31583	8/1/1970	MATEYAK, JOHN A	40.78472	-75.97111	540	OPEN HOLE	6	58	DOMESTIC
31584			40.78472	-76.00889	0		0	0	UNUSED
31585			40.78500	-76.33167	0		0	0	UNUSED
31586		NEVERTTS	40.78556	-76.23333	99	OPEN HOLE	0	0	IRRIGATION
31587	9/1/1930	DUNN C F	40.78639	-75.97000	94	OPEN HOLE	3	50	DOMESTIC
31588	1/1/1976	PA DER	40.78667	-76.31917	281	OPEN HOLE	0	28	UNUSED
31589	1/1/1973	PA DER	40.78694	-76.31611	265	OPEN HOLE	0	8	UNUSED
31590		CITIZENS WATER CO	40.78778	-76.18389	280	OPEN HOLE	20	0	UNUSED
31591		MOREA CITIZENS WATER	40.78750	-76.18333	325	OPEN HOLE	0	0	UNUSED
31592	9/1/1970	WALTERS, BEN	40.78778	-75.95611	94	OPEN HOLE	10	25	DOMESTIC
31593	1/1/1964	LOCUST VALLEY COAL C	40.78972	-76.12306	190	OPEN HOLE	5	0	COMMERCIAL
31594	1/1/1964	LOCUST VALLEY GOLF C	40.79000	-76.12222	190	OPEN HOLE	23	0	IRRIGATION
31595	1/1/1945	TERRACE MARY	40.79028	-75.99278	102	OPEN HOLE	0	0	DOMESTIC
31596	1/1/1964	LOCUST VALLEY GOLF C	40.79028	-76.12278	190	OPEN HOLE	10	0	UNUSED
31597			40.79028	-76.29278	0		0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31598	1/1/1900	EAMES	40.79083	-75.99361	35	OPEN HOLE	0	0	UNUSED
31599			40.79083	-76.32389	0		0	0	UNUSED
31600			40.79111	-75.98583	0		0	0	UNUSED
31601		BENKO	40.79111	-75.99389	24	WALLED	0	0	DOMESTIC
31602	1/1/1915	TAMAQUA BOROUGH	40.79306	-75.93333	400	OPEN HOLE	150	0	UNUSED
31602	1/1/1915	TAMAQUA BOROUGH	40.79306	-75.93333	400	UNKNOWN	150	0	UNUSED
31603	1/1/1964	LOCUST VALLEY COAL C	40.79167	-76.12833	190	OPEN HOLE	80	0	RECREATION
31604			40.79167	-76.26833	0		0	0	UNUSED
31605	1/1/1964	LOCUST VALLEY GOLF C	40.79222	-76.11944	190	OPEN HOLE	70	0	IRRIGATION
31606	9/1/1966	REICHELDERFER	40.79222	-75.94389	122	UNKNOWN	20	60	DOMESTIC
31607	9/1/1970	TRUDICH JR JOHN	40.79250	-75.94750	140	OPEN HOLE	15	40	DOMESTIC
31608	1/1/1964	LOCUST VALLEY GOLF C	40.79250	-76.11750	190	OPEN HOLE	7	0	IRRIGATION
31609	10/7/1974	PA DEPT OF ENV. RES.	40.79250	-76.24500	560	OPEN HOLE	0	0	UNUSED
31610	10/22/1974	PA DEPT OF ENV. RES.	40.79278	-76.24417	446	OPEN HOLE	0	0	UNUSED
31611	1/1/1928	FETTERS DAIRY	40.79278	-76.28444	146	OPEN HOLE	0	11	INDUSTRIAL
31612	1/1/1974	PA. DEPT. ENV. RES.	40.79333	-76.32417	144	OPEN HOLE	0	15	UNUSED
31613	1/1/1904	TAMAQUA BOROUGH	40.79306	-75.93333	365	OPEN HOLE	0	0	UNUSED
31614	1/1/1909	TAMAQUA BOROUGH	40.79306	-75.93333	500	OPEN HOLE	0	0	UNUSED
31615	1/1/1912	TAMAQUA BOROUGH	40.79306	-75.93333	400	OPEN HOLE	0	0	UNUSED
31616	1/1/1964	LOCUST VALLEY GOLF C	40.79333	-76.12139	190	OPEN HOLE	10	0	IRRIGATION
31617		PA. DEPT. ENV. RES.	40.79361	-76.25389	213	OPEN HOLE	0	57	UNUSED
31618	1/1/1964	LOCUST VALLEY GOLF C	40.79389	-76.11750	190	OPEN HOLE	70	0	UNUSED
31619	1/1/1976		40.79389	-76.27389	281	UNKNOWN	0	14	UNUSED
31620			40.79417	-76.27444	0		0	0	UNUSED
31621			40.79444	-76.27278	0		0	0	UNUSED
31622		PA DER	40.79444	-76.27444	148	OPEN HOLE	0	0	UNUSED
31623			40.79472	-76.28000	0		0	0	UNUSED
31624	1/1/1940	MEROK STANLEY	40.79611	-76.15750	65	OPEN HOLE	0	15	DOMESTIC
31625	1/1/1973	PA DER	40.79806	-76.22500	193	OPEN HOLE	0	44	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31626	6/1/1922	BILLMAN AND STEGMAIE	40.79833	-75.96583	116	OPEN HOLE	30	0	INDUSTRIAL
31627	1/1/1930	BLUE HARRY	40.80083	-76.05250	93	OPEN HOLE	0	30	DOMESTIC
31628	1/1/1974	PA DER	40.80083	-76.20917	280	OPEN HOLE	0	47	UNUSED
31629			40.80167	-76.26778	0		0	0	UNUSED
31630	5/1/1969	FRITZ, DAVID	40.80333	-76.04417	98	OPEN HOLE	21	30	DOMESTIC
31631	1/1/1973	PA DER	40.80472	-76.17889	282	OPEN HOLE	0	48	UNUSED
31632	12/1/1965	TUSCARORA STATE PARK	40.80528	-76.02194	275	OPEN HOLE	80	84	PUBLIC SUPPLY
31633	1/1/1973		40.80528	-76.26444	202	OPEN HOLE	0	52	UNUSED
31634		GERMAN CEMETERY	40.80556	-76.12417	112	OPEN HOLE	20	0	DOMESTIC
31635	12/1/1965	TUSCARORA STATE PARK	40.80583	-76.00917	275	OPEN HOLE	20	40	PUBLIC SUPPLY
31636			40.80694	-76.24694	0		0	0	UNUSED
31637	1/1/1974	PA DER	40.80778	-76.23722	280	OPEN HOLE	0	16	UNUSED
31638	1/1/1974	PA DER	40.80806	-76.24694	289	OPEN HOLE	0	2	UNUSED
31639			40.80833	-76.24694	0		0	0	UNUSED
31640	1/1/1966	TUSCARORA STATE PARK	40.80861	-76.01639	400	OPEN HOLE	65	89	PUBLIC SUPPLY
31641	1/1/1973	PA DER	40.81028	-76.17917	142	UNKNOWN	0	73	UNUSED
31642	6/24/1963	TURNER, ROY L	40.81194	-76.01528	384	UNKNOWN	30	180	DOMESTIC
31643	11/25/1957	TURNER, ROY L	40.81194	-76.01528	150	OPEN HOLE	25	23	DOMESTIC
31644		HERVING J	40.81333	-76.03167	112	OPEN HOLE	10	0	DOMESTIC
31645		CLARK RAY	40.81472	-76.03278	46	OPEN HOLE	0	0	DOMESTIC
31646	1/1/1976	PA DER	40.81472	-76.14417	517	UNKNOWN	0	128	UNUSED
31647	12/1/1928	HEFF	40.81500	-76.03167	50	OPEN HOLE	15	0	DOMESTIC
31648		KIRSCHER C J	40.81528	-76.05611	64	OPEN HOLE	0	0	DOMESTIC
31649			40.81528	-76.12639	0		0	0	UNUSED
31650		BLACKWELL	40.81556	-76.08417	75	OPEN HOLE	15	0	DOMESTIC
31651	1/1/1973	PA DER	40.81583	-76.14194	157	OPEN HOLE	0	100	UNUSED
31652	1/1/1950	KERN GEORGE	40.81611	-76.08278	1080	OPEN HOLE	0	0	DOMESTIC
31653		LAKESIDE PARK	40.81639	-76.04694	65	OPEN HOLE	0	0	UNUSED
31654	1/1/1969	ST. RICHARDS	40.81667	-76.04944	314	OPEN HOLE	25	60	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31655		BRAINBRIDGE	40.81750	-76.05222	90	OPEN HOLE	0	0	DOMESTIC
31656	9/1/1966	POPNICK, LEO	40.81806	-76.05250	96	UNKNOWN	25	18	DOMESTIC
31657		TEETER S	40.81889	-76.02361	58	OPEN HOLE	4	0	DOMESTIC
31658			40.81917	-75.93333	0		0	0	DEWATER
31659	10/1/1971	RYAN TWSP.BLDG.	40.81917	-76.05639	300	OPEN HOLE	10	37	DOMESTIC
31660	7/1/1966	BLUME, HENRY	40.81972	-76.05389	96	OPEN HOLE	30	21	DOMESTIC
31661	11/1/1971	SMIGO, ROBERT	40.82028	-75.98639	198	OPEN HOLE	0	58	DOMESTIC
31662	11/1/1975	SOULT, GENE	40.82056	-76.06278	200	OPEN HOLE	12	55	DOMESTIC
31663	5/1/1976	TOLAN, JAMES	40.82083	-76.06306	320	OPEN HOLE	20	58	DOMESTIC
31664	1/1/1973	PA DER	40.82194	-76.21056	148	OPEN HOLE	0	130	UNUSED
31665	5/1/1930	STARCH HARRY	40.82222	-75.99694	98	OPEN HOLE	20	0	DOMESTIC
31666	8/1/1971	RODGERS, EDWARD	40.82222	-76.03167	150	OPEN HOLE	35	36	DOMESTIC
31667	7/1/1973	FREDERICKSON JAMES E	40.82250	-75.97083	175	OPEN HOLE	25	38	DOMESTIC
31668		RYAN J M	40.82278	-75.97694	100	OPEN HOLE	0	0	DOMESTIC
31669	8/1/1971	GEARHARD, GLENN	40.82306	-75.97444	149	OPEN HOLE	35	60	DOMESTIC
31670	7/1/1974	PURNELL, LYNN	40.82306	-76.06806	225	OPEN HOLE	10	84	DOMESTIC
31671	1/1/1975	PaDER	40.82333	-76.19972	313	OPEN HOLE	0	0	UNUSED
31672	9/29/1978	SCHREPPEL, E.	40.82389	-76.22333	110	OPEN HOLE	30	22	DOMESTIC
31673		SAYLOR'S BAKERY INC	40.82444	-75.98556	205	OPEN HOLE	60	45	INDUSTRIAL
31674	5/1/1976	KROUT, RUSSELL	40.82472	-75.98806	122	OPEN HOLE	25	20	DOMESTIC
31675	1/1/1929	BAIR L	40.82583	-76.05583	50	OPEN HOLE	0	0	DOMESTIC
31676			40.82611	-76.45111	0		0	0	
31677	3/1/1971	HECKMAN, ARTHUR	40.82639	-76.03306	120	OPEN HOLE	35	18	DOMESTIC
31678	1/1/1974	PA DER	40.82639	-76.13861	154	OPEN HOLE	0	76	UNUSED
31679	6/1/1974	ROUNDS, DANIEL	40.82778	-76.06417	200	OPEN HOLE	20	48	DOMESTIC
31680	5/1/1977	LIGHT, LARRY	40.82889	-76.05250	162	UNKNOWN	11	50	DEWATER
31681		BACHUS HENRY	40.82889	-76.05889	100	OPEN HOLE	20	64	DOMESTIC
31682	5/1/1977	FEGLEY, S. PAUL	40.82944	-76.05389	142	OPEN HOLE	18	45	DOMESTIC
31683	1/1/1974	PaDER	40.82944	-76.14944	385	OPEN HOLE	0	358	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31684		PHILA PREADING RAILR	40.83139	-76.04417	84	OPEN HOLE	15	0	DOMESTIC
31685	8/1/1967	STISOWAIN, LEWIS	40.83389	-75.99278	170	OPEN HOLE	18	100	DOMESTIC
31686		SHENANDOAH WATER CO.	40.83500	-76.19472	510	OPEN HOLE	400	0	PUBLIC SUPPLY
31687		SHENANDOAH WATER CO.	40.83639	-76.19278	560	OPEN HOLE	65	0	PUBLIC SUPPLY
31688	5/1/1975	RARICK, EDWARD	40.83778	-75.99444	200	OPEN HOLE	20	15	DOMESTIC
31689		PERLA JOHN	40.83889	-76.09972	32	WALLED	0	27	UNUSED
31690	9/27/1982	CARBONITE FILTER CORP	40.83944	-76.07417	600	OPEN HOLE	125	60	INDUSTRIAL
31691		WYO VALLEY WATER CO	40.84056	-76.05889	800	OPEN HOLE	75	0	UNUSED
31692		WYO VALLEY WATER CO	40.84056	-76.07139	500	OPEN HOLE	125	0	PUBLIC SUPPLY
31693	1/1/1910	WYO. VALLEY WATER CO	40.84194	-76.11306	352	OPEN HOLE	125	0	PUBLIC SUPPLY
31694	9/27/1979	STEIDLE, K.	40.84333	-76.24917	122	OPEN HOLE	50	8	DOMESTIC
31695	1/1/1967	OLEXIS, GEO	40.84444	-76.03944	328	OPEN HOLE	12	60	DOMESTIC
31696		WYO VALLEY WATER CO	40.84472	-76.10028	500	OPEN HOLE	5	0	PUBLIC SUPPLY
31697	9/25/1979	CAMPANICKI J.	40.84639	-76.24778	202	OPEN HOLE	20	10	DOMESTIC
31698	9/26/1979	DILLMAN, J.	40.84694	-76.24694	202	OPEN HOLE	0	34	DOMESTIC
31699	9/28/1979	SEMANCHYK, T.	40.84944	-76.24917	122	OPEN HOLE	40	4	DOMESTIC
31700	1/1/1921		40.85083	-76.20639	55	OPEN HOLE	0	0	DOMESTIC
31701	1/1/1929	GARBER H	40.85167	-76.04000	100	OPEN HOLE	20	0	DOMESTIC
31702		TROPOVITCH	40.85306	-76.02333	112	OPEN HOLE	10	81	DOMESTIC
31703	1/1/1985	RINGTOWN BOROUGH	40.85417	-76.23806	400	UNKNOWN	0	0	PUBLIC SUPPLY
31704	9/1/1966	POWELL, JOHN	40.85556	-75.99917	112	OPEN HOLE	15	46	DOMESTIC
31705		GILBERT J	40.85778	-76.19694	121	OPEN HOLE	0	0	DOMESTIC
31706		DR. RHODES	40.85889	-76.22972	60	OPEN HOLE	10	32	DOMESTIC
31707		RINGTOWN HOTEL	40.85944	-76.23000	190	OPEN HOLE	10	0	DOMESTIC
31708	9/30/1977	SEKULA, J.	40.85972	-76.16944	162	OPEN HOLE	25	10	DOMESTIC
31709		KUNCHICK JOHN	40.86667	-76.19611	90	OPEN HOLE	0	0	DOMESTIC
31710	1/1/1928	FERGUSON	40.86667	-76.23833	410	OPEN HOLE	30	0	DOMESTIC
31711	11/1/1967	ADAMS, ROBERT M	40.86889	-75.97472	230	OPEN HOLE	12	100	DOMESTIC
31712	11/6/1979	BROCIOUS, D.	40.86972	-76.15972	402	OPEN HOLE	2	200	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31713	1/1/1904	SHEN. BORO WATER CO	40.87250	-76.12944	995	OPEN HOLE	200	0	PUBLIC SUPPLY
31714			40.87333	-76.00472	0		0	0	INDUSTRIAL
31715		DRUMHELLER GEORGE	40.88444	-76.10639	70	OPEN HOLE	710	35	DOMESTIC
31716		LORAH GEORGE	40.88833	-76.11444	100	OPEN HOLE	7	0	DOMESTIC
31717	11/1/1975	LORAH, EARL	40.88917	-76.11083	182	OPEN HOLE	6	45	DOMESTIC
31718	6/27/1979	RHOADES , WAYNE	40.89139	-76.23417	200	OPEN HOLE	8	0	DOMESTIC
31719	1/1/1950	GIRARD ESTATE	40.89278	-76.08611	966	OPEN HOLE	0	0	UNUSED
31720		HONEYBROOK WATER CO.	40.89417	-76.02639	961	OPEN HOLE	250	0	PUBLIC SUPPLY
31721	18900101	LORAH OSCAR	40.89472	-76.11694	60	OPEN HOLE	0	0	
31722	9/1/1978	GULASH , T	40.89583	-76.12083	220	OPEN HOLE	25	25	DOMESTIC
31723		AMER ENGIGIO	40.89667	-76.11889	75	OPEN HOLE	0	0	DOMESTIC
31724			40.89778	-76.06639	0		0	0	UNUSED
31725			40.89778	-76.06750	0		0	0	UNUSED
31726		HONEYBROOK WATER CO	40.89806	-76.00556	1010	OPEN HOLE	0	0	PUBLIC SUPPLY
31727		GAYDOS MICHAEL	40.89806	-76.11611	59	OPEN HOLE	0	0	DOMESTIC
31728		HONEYBROOK WATER CO.	40.89833	-76.00194	375	OPEN HOLE	600	0	PUBLIC SUPPLY
31729		HONEYBROOK WATER CO.	40.89833	-76.00222	374	OPEN HOLE	500	0	PUBLIC SUPPLY
31730	1/1/1920	CALOVINIC WILLIAM	40.89972	-76.11833	86	OPEN HOLE	0	0	DOMESTIC
31731	1/1/1920	TERKASKY	40.89972	-76.12167	41	OPEN HOLE	0	0	DOMESTIC
31732		FUSS	40.90083	-76.23389	62	OPEN HOLE	10	29	DOMESTIC
31733		ONEIDA WATER CO	40.90139	-76.12222	700	OPEN HOLE	15	0	PUBLIC SUPPLY
31734		ONEIDA WATER CO	40.90278	-76.16500	700	OPEN HOLE	10	0	UNUSED
31735	1/1/1973	COVE SKI VILLAGE	40.90472	-76.15667	413	UNKNOWN	125	58	RECREATION
31736	18920101	ONEIDA WATER CO	40.90500	-76.12583	800	OPEN HOLE	0	15	PUBLIC SUPPLY
31737	1/1/1973	COVE SKI VILLAGE	40.90500	-76.15611	397	UNKNOWN	100	88	RECREATION
31738		WYO VALLEY WATER CO	40.90722	-76.12361	700	OPEN HOLE	10	0	PUBLIC SUPPLY
31739	11/1/1978	ANDREWS , J	40.90778	-76.12000	120	OPEN HOLE	25	0	DOMESTIC
31740	11/1/1978	FELLIN , A	40.91028	-76.11333	120	OPEN HOLE	25	0	DOMESTIC
31741			40.91833	-76.14722	0		0	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31742			40.92556	-76.12361	0		0	0	UNUSED
31743	1/1/1925	IMMACULATE HEART ACA	40.93500	-76.30194	620	OPEN HOLE	45	105	DOMESTIC
31744	1/1/1964	NATIONAL UTILITYINC	40.93750	-76.17167	193	UNKNOWN	55	0	PUBLIC SUPPLY
31745	8/1/1962	NATIONAL UTILITYINC	40.93944	-76.17306	235	UNKNOWN	13	0	PUBLIC SUPPLY
31746		NUREMBURG WATER CO	40.94056	-76.17417	605	OPEN HOLE	40	0	PUBLIC SUPPLY
31747	1/1/1928	FRACKVILLE GAS CO.	40.95806	-76.31278	120	OPEN HOLE	75	0	INDUSTRIAL
31814		PADER	40.80028	-76.20944	988	UNKNOWN	0	44	INDUSTRIAL
31821			40.91083	-76.06639	0		0	0	UNUSED
31823			40.80139	-76.12111	200	UNKNOWN	0	0	
31824			40.81056	-76.15333	188	UNKNOWN	0	0	
31825			40.81556	-76.12639	148	UNKNOWN	0	0	
31826			40.82639	-76.13889	0		0	0	
31830	3/22/1972	AIR PRODUCTS & CHEMICALS	40.83528	-76.03583	310	OPEN HOLE	0	0	INDUSTRIAL
31834	7/31/1987	NORTHEASTERN POWER CO	40.86583	-76.01083	150	OPEN HOLE	16	0	INDUSTRIAL
31904	6/1/1976	INAMA, HENRY	40.75167	-76.03444	120	OPEN HOLE	20	45	DOMESTIC
31905	7/1/1978	FETTEROFF, L.	40.75250	-76.34028	100	OPEN HOLE	25	20	DOMESTIC
31907	4/24/1979	EDMONDS, T	40.75472	-76.05778	142	OPEN HOLE	40	67	DOMESTIC
31908	8/18/1981	BARAN, JOSEPH	40.76806	-76.32667	422	OPEN HOLE	0	20	DOMESTIC
31909	6/1/1973	SCHUYLKILL MUN. AUTH.	40.76972	-76.19250	620	OPEN HOLE	122	0	PUBLIC SUPPLY
31910	11/1/1980	SCHUYLKILL MUN. AUTH.	40.77083	-76.22806	400	OPEN HOLE	0	30	UNUSED
31911	12/8/1980	JACK RICH INC.	40.77667	-76.22556	162	OPEN HOLE	20	10	INDUSTRIAL
31912	1/1/1969	TITANIUM WIRE CORP.	40.77972	-76.21528	158	OPEN HOLE	89	15	DOMESTIC
31913	1/1/1964	FIORELLI, JOSEPH	40.78139	-76.20667	67	OPEN HOLE	0	34	DOMESTIC
31914	6/25/1975	U.S. GEOLOGICAL SURV	40.78556	-76.11861	242	OPEN HOLE	4	53	UNUSED
31915		MOREA CITIZENS WATER CO.	40.78778	-76.18194	383	OPEN HOLE	250	0	PUBLIC SUPPLY
31916	1/1/1961	CHAKEN, STEVEN	40.79222	-76.08194	118	OPEN HOLE	0	0	DOMESTIC
31917	1/1/1954	WILLIAMS, PAUL	40.79944	-76.14806	127	OPEN HOLE	10	15	DOMESTIC
31918	8/19/1971	PA. DEPT. OF TRANS.	40.81778	-76.08917	580	OPEN HOLE	0	125	UNUSED
31919	6/14/1972	PA. DEPT. OF TRANS.	40.81833	-76.08778	400	OPEN HOLE	20	0	UNUSED

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
31920	1/1/1928	BEHLER, GEORGE	40.82222	-75.99167	104	OPEN HOLE	25	0	DOMESTIC
31921		PA. DEPT. OF TRANS.	40.82250	-76.08444	400	OPEN HOLE	14	25	UNUSED
31922	1/23/1981	BRANDONVLE FIRE CO.	40.85556	-76.16667	142	OPEN HOLE	20	23	PUBLIC SUPPLY
31923	1/1/1976	ZUKOVICH, EDWARD	40.86278	-75.98889	128	OPEN HOLE	0	33	DOMESTIC
32071	8/27/1959	BENTON AIR FORCE	41.36500	-76.31889	310	OPEN HOLE	0	102	PUBLIC SUPPLY
32076	1/1/1950	BENTON AIR FORCE BAS	41.35833	-76.29444	301	OPEN HOLE	6	0	PUBLIC SUPPLY
32077	1/1/1956	BENTON AIR FORCE BAS	41.35944	-76.29278	500	OPEN HOLE	350	170	PUBLIC SUPPLY
32454	11/12/1979	O MALLEY, C.	41.01278	-75.89917	120	OPEN HOLE	15	0	DOMESTIC
34085		NOXEN WATER CO.	41.41694	-76.06250	150	OPEN HOLE	40	0	PUBLIC SUPPLY
34101	1/1/1977	BUCKLEY, JACK	41.40694	-76.02917	117	UNKNOWN	13	0	DOMESTIC
34102	18910101		41.42583	-76.05889	385	OPEN HOLE	300	40	INDUSTRIAL
34112	3/5/1980	KUNKLE, J.	41.40167	-75.99111	265	UNKNOWN	18	0	DOMESTIC
34114	4/30/1976	JOHNSON, B.	41.41472	-75.99917	430	UNKNOWN	25	225	DOMESTIC
34115	11/28/1976	MAHANEY, D.	41.41639	-75.98806	160	UNKNOWN	15	30	DOMESTIC
46741	1/1/1965	LANSFORD-COALDALE JWA	40.84500	-75.89333	600	OPEN HOLE	360	4	PUBLIC SUPPLY
46742	1/1/1965	LANSFORD-COALDALE JWA	40.84556	-75.89278	600	OPEN HOLE	250	8	PUBLIC SUPPLY
46743	12/1/1994	LANSFORD-COALDALE JWA	40.84806	-75.90306	380	OPEN HOLE	0	0	PUBLIC SUPPLY
46744	12/1/1994	LANSFORD-COALDALE JWA	40.84917	-75.89972	385	OPEN HOLE	180	0	PUBLIC SUPPLY
46745	12/1/1994	LANSFORD-COALDALE JWA	40.85000	-75.89694	350	OPEN HOLE	90	5	PUBLIC SUPPLY
46746	12/1/1994	LANSFORD-COALDALE JWA	40.85028	-75.89111	530	OPEN HOLE	265	17	PUBLIC SUPPLY
46747	12/1/1994	LANSFORD-COALDALE JWA	40.85028	-75.89333	400	OPEN HOLE	105	5	PUBLIC SUPPLY
46748	12/1/1994	LANSFORD-COALDALE JWA	40.85028	-75.89944	560	OPEN HOLE	40	21	PUBLIC SUPPLY
46749	12/1/1994	LANSFORD-COALDALE JWA	40.85111	-75.89639	550	OPEN HOLE	40	8	PUBLIC SUPPLY
46750	12/1/1994	LANSFORD-COALDALE JWA	40.85139	-75.89361	515	OPEN HOLE	75	4	PUBLIC SUPPLY
46751	12/1/1994	LANSFORD-COALDALE JWA	40.85167	-75.88278	650	OPEN HOLE	75	32	PUBLIC SUPPLY
46753		LANSFORD-COALDALE JWA	40.85944	-75.89750	0	OPEN HOLE	0	0	PUBLIC SUPPLY
47845	1/1/1989	FREELAND BOROUGH	41.02417	-75.90639	600	OPEN HOLE	0	0	PUBLIC SUPPLY
47846	2/10/1992	FREELAND BOROUGH	41.03278	-75.90444	397	OPEN HOLE	10	0	PUBLIC SUPPLY
47847		MAPLE LANE ESTATES MHP	41.03861	-75.83861	0	OPEN HOLE	0	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
47848		MAPLE LANE ESTATES MHP	41.03861	-75.83917	0	OPEN HOLE	0	0	PUBLIC SUPPLY
47849		MAPLE LANE ESTATES MHP	41.03861	-75.83972	0	OPEN HOLE	0	0	PUBLIC SUPPLY
48266	8/11/1987	NORTHEASTERN POWER CO	40.86444	-76.01139	36	OPEN HOLE	24	0	INDUSTRIAL
48267	9/14/1987	NORTHEASTERN POWER CO	40.86444	-76.01194	31	OPEN HOLE	22	3	INDUSTRIAL
48268	9/18/1987	NORTHEASTERN POWER CO	40.86444	-76.01222	30	OPEN HOLE	12	4	INDUSTRIAL
48491			40.74528	-76.06417	0		0	0	
48492			40.77611	-76.37194	0		0	0	UNUSED
48493			40.91167	-76.06750	0		0	0	
48494			40.97806	-75.81083	0		0	0	
48495			41.00528	-75.96056	0		0	0	
52710	9/30/1981	WADDING R	40.86694	-76.23556	90		15	0	DOMESTIC
66661	1/29/1981	BAGGERLY J	40.99722	-76.58694	110	OPEN HOLE	9	41	DOMESTIC
82640	10/1/1983	GARFIELD M	40.86861	-75.79111	99	OPEN HOLE	20	40	DOMESTIC
82644	11/1/1980	GARDINER P	40.82667	-75.84694	125	OPEN HOLE	20	30	DOMESTIC
82649	1/1/1982	FICKER J	40.86861	-75.79111	198	OPEN HOLE	50	35	DOMESTIC
82651	3/2/1984	AMETEK	40.86083	-75.84083	550	OPEN HOLE	95	15	INDUSTRIAL
82653	9/8/1983	DOUGHERTY F	40.82556	-75.85056	302	OPEN HOLE	8	50	DOMESTIC
82654	4/1/1983	HUPKES M	40.81639	-75.86639	204	OPEN HOLE	4	50	DOMESTIC
82719		AMETEK	40.86167	-75.82167	600	OPEN HOLE	50	5	INDUSTRIAL
82720		HERTWECK-KIJAK	40.83889	-75.91000	120	OPEN HOLE	20	0	DOMESTIC
82726	1/1/1968	LANZOS JOSEPH	40.82194	-75.85778	90	OPEN HOLE	20	40	DOMESTIC
82727	1/1/1969	PETRO JR JOHN	40.82000	-75.86111	110	OPEN HOLE	30	50	DOMESTIC
82761	6/1/1983	KNEPPER A	40.94444	-75.83556	240	OPEN HOLE	25	38	DOMESTIC
82762	11/12/1981	WEATHERLY BORO	40.94222	-75.83000	400	OPEN HOLE	60	0	PUBLIC SUPPLY
82763	9/1/1981	WEATHERLY WATER AUTH	40.94167	-75.82972	200	OPEN HOLE	190	0	PUBLIC SUPPLY
82767	5/1/1988	MCADOO IND PARK	40.90361	-75.97944	600	OPEN HOLE	31	80	INDUSTRIAL
82916		KIEPER CLARK	41.06167	-75.76944	225	OPEN HOLE	9	0	DOMESTIC
82917		ACHE C R	41.06444	-75.76000	144	OPEN HOLE	30	0	DOMESTIC
82918		H R TRUCK STOP	41.06278	-75.74667	343	OPEN HOLE	25	5	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
82919		SHERMAN JOE	41.06250	-75.76889	175	OPEN HOLE	22	18	DOMESTIC
82920		DEAL M	41.06250	-75.76889	325	OPEN HOLE	10	65	DOMESTIC
82921		CARTER E	41.06083	-75.76889	240	OPEN HOLE	25	35	DOMESTIC
83139	2/1/1984	ZIMINSKY A	41.04056	-75.75806	105	OPEN HOLE	20	30	DOMESTIC
83142	12/1/1981	MCDONALDS	41.07167	-75.70194	237	OPEN HOLE	350	0	PUBLIC SUPPLY
83143	8/12/1981	LIBERTY HOMES	41.07806	-75.70222	200	OPEN HOLE	25	60	DOMESTIC
83144	5/1/1983	LIBERTY HOMES	41.08028	-75.69250	125	OPEN HOLE	150	4	DOMESTIC
83146	8/1/1983	VIVALDO F	41.08306	-75.69972	180	OPEN HOLE	20	50	DOMESTIC
83168	1/1/1990	FRATTA	41.07250	-75.69194	275	OPEN HOLE	10	45	DOMESTIC
83169	1/1/1990	GRAVES	41.07222	-75.69167	150	OPEN HOLE	20	50	DOMESTIC
83177	3/1/1990	BARTO J	41.07389	-75.69556	360	OPEN HOLE	30	50	
83178	11/1/1988	POPPLE	41.07083	-75.70417	225	OPEN HOLE	60	0	PUBLIC SUPPLY
83201	11/1/1986	PARKER D	41.06750	-75.72861	300	OPEN HOLE	8	30	DOMESTIC
83202	4/1/1987	PUK	41.04083	-75.75750	150	OPEN HOLE	50	25	DOMESTIC
83203	7/1/1987	LACHETTE J	41.06639	-75.73444	200	OPEN HOLE	15	0	DOMESTIC
83212	6/1/1986	OROSS E	41.06611	-75.75806	325	OPEN HOLE	15	58	DOMESTIC
83456		MCFADDER JAY	41.08000	-75.69500	106	OPEN HOLE	20	40	DOMESTIC
83457		SABO BLDG CONTR	41.08000	-75.69500	86	OPEN HOLE	20	30	DOMESTIC
83458		SABO BLDG CONTR	41.08000	-75.69500	90	OPEN HOLE	20	40	DOMESTIC
83459		REPHOLZ FRANK	41.08000	-75.69500	100	OPEN HOLE	20	40	DOMESTIC
83460		CORL RUDY	41.08000	-75.69500	110	OPEN HOLE	22	25	DOMESTIC
83461		ZARTMAN ELWOOD	41.08000	-75.69500	120	OPEN HOLE	7	20	DOMESTIC
83464	1/1/1967	MILLER MR W	41.06250	-75.80000	112	OPEN HOLE	30	20	DOMESTIC
83482	1/1/1967	FOODERGONG	41.07194	-75.69917	383	OPEN HOLE	25	12	DOMESTIC
83486		SABO BUILDERS	41.08111	-75.69944	126	OPEN HOLE	20	30	DOMESTIC
83487		SABO CONST	41.08111	-75.69944	99	OPEN HOLE	20	30	DOMESTIC
83488		HOFMANIS W	41.08111	-75.69944	124	OPEN HOLE	20	65	DOMESTIC
83489		POPIELARSKI JOE	41.08111	-75.69944	170	OPEN HOLE	18	0	DOMESTIC
83490		VIVALDO FRED	41.08111	-75.69944	260	OPEN HOLE	18	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
83491		RAGONE MARIO	41.08111	-75.69944	200	OPEN HOLE	25	30	DOMESTIC
83492		DONATO ANTONIO	41.08111	-75.69944	110	OPEN HOLE	22	30	DOMESTIC
83493		CALABRETTA ROSS	41.08111	-75.69944	230	OPEN HOLE	30	75	DOMESTIC
83494		SABO BLDG	41.08111	-75.69944	120	OPEN HOLE	10	25	DOMESTIC
83495	1/1/1967		41.07000	-75.70806	343	OPEN HOLE	60	0	DOMESTIC
83516		SUDO WALTER	41.06028	-75.76972	500	OPEN HOLE	90	0	INDUSTRIAL
83518		FARRELL JERRY	41.06972	-75.76472	230	OPEN HOLE	20	0	DOMESTIC
83523	1/1/1968	MINHEEL CHARLES	41.06694	-75.73917	220		15	35	DOMESTIC
83524		GALLO DAN	41.08278	-75.69806	375	OPEN HOLE	6	45	DOMESTIC
83525		DAMIANI N	41.08306	-75.69417	220	OPEN HOLE	25	40	DOMESTIC
83526		DE ALFONSO A	41.08167	-75.69389	260	OPEN HOLE	25	20	DOMESTIC
83527		SMOLKO M	41.08056	-75.69500	140	OPEN HOLE	25	20	DOMESTIC
83528		DONATO A	41.08028	-75.69528	240	OPEN HOLE	25	30	DOMESTIC
83529		VIVALDO F	41.07972	-75.69444	120	OPEN HOLE	25	20	DOMESTIC
83530		SABO BLDG CONTR	41.08083	-75.69861	167	OPEN HOLE	15	60	DOMESTIC
83531		FRYE JOSEPH	41.08000	-75.69972	325	OPEN HOLE	10	78	DOMESTIC
83559		HOLIDAY INN	41.06917	-75.70444	780	OPEN HOLE	12	0	INDUSTRIAL
83560		POWLEY K	41.06917	-75.72250	225	OPEN HOLE	18	0	DOMESTIC
83568	5/1/1982	WHITE WATER RAFTING	40.98417	-75.78556	569	OPEN HOLE	200	43	DOMESTIC
83569	2/1/1990	FADU E	40.95861	-75.82861	200	OPEN HOLE	20	30	DOMESTIC
83570	2/1/1989	VASHANSKY R	40.98000	-75.81194	160	OPEN HOLE	20	30	DOMESTIC
83571	5/1/1988		40.98056	-75.81333	420	OPEN HOLE	1	0	DOMESTIC
83580		MOSER DAVID	40.98167	-75.80333	140	OPEN HOLE	25	40	DOMESTIC
83581		TULAY J	40.97889	-75.81861	140	OPEN HOLE	25	25	DOMESTIC
83582	1/1/1984	HARTZ P	40.94000	-75.80611	400	OPEN HOLE	0	0	DOMESTIC
83583	9/1/1982	CURTIS P	40.96806	-75.78306	121	OPEN HOLE	16	60	DOMESTIC
83584	9/1/1986	MILLER	40.96333	-75.78361	240	OPEN HOLE	10	80	DOMESTIC
83585	1/1/1989	MILLER J	40.96306	-75.78389	160	OPEN HOLE	30	20	DOMESTIC
83586	6/1/1988	GRAHAM	40.95639	-75.80056	200	OPEN HOLE	10	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
83598	1/1/1968	RAYNOCK MR F	40.96639	-75.76000	95	OPEN HOLE	20	28	DOMESTIC
83599	1/1/1966	DOMONICK CELEST	40.94306	-75.82917	110	OPEN HOLE	15	15	DOMESTIC
83600	1/1/1967	GRAFF LAWRENCE	40.98833	-75.76333	105	OPEN HOLE	30	20	DOMESTIC
83601		NELSON HANS	40.94833	-75.81000	170	OPEN HOLE	22	25	DOMESTIC
83602		FAIRCHILDS R	40.98833	-75.75500	85		30	20	DOMESTIC
83603		SCHNIDER GEORGE	40.98167	-75.76861	110	OPEN HOLE	35	30	DOMESTIC
83604		EXXON USA	40.94611	-75.74833	1350	OPEN HOLE	0	0	
83605		CONCH EDWARD C	40.99556	-75.76167	175	OPEN HOLE	15	18	DOMESTIC
83606			40.96167	-75.79444	142	OPEN HOLE	20	32	DOMESTIC
83917		KARPISZ WALTER	40.86694	-75.79389	115	OPEN HOLE	0	50	DOMESTIC
83918		GRECO JOSEPH	40.86694	-75.79389	115	OPEN HOLE	30	50	DOMESTIC
83944		LOGAN WILLIAM	40.86722	-75.81528	400	OPEN HOLE	28	46	DOMESTIC
83946		MAHASKA GUS	40.86417	-75.82639	125	OPEN HOLE	14	51	DOMESTIC
84018	8/1/1989	BALBET R	40.86889	-75.79056	200	OPEN HOLE	18	45	DOMESTIC
84019		KOVAK	40.87667	-75.83611	90	OPEN HOLE	0	0	DOMESTIC
84020		KOVAK	40.87389	-75.82889	100	OPEN HOLE	0	0	DOMESTIC
84021		KOVAK	40.86833	-75.82750	110	OPEN HOLE	0	0	DOMESTIC
84022		KOVAK	40.86944	-75.82083	120	OPEN HOLE	0	0	DOMESTIC
84023		KOVAK	40.87472	-75.83417	125	OPEN HOLE	0	0	DOMESTIC
84024		KOVAK	40.86944	-75.87583	125	OPEN HOLE	0	0	DOMESTIC
84025		KOVAK	40.86111	-75.88444	150	OPEN HOLE	0	0	DOMESTIC
84026		KOVAK	40.85722	-75.87083	125	OPEN HOLE	0	0	DOMESTIC
84027		KOVAK	40.85056	-75.88806	130	OPEN HOLE	0	0	DOMESTIC
84028		KOVAK	40.85306	-75.87750	105	OPEN HOLE	0	0	DOMESTIC
84029		KOVAK	40.86000	-75.89417	125	OPEN HOLE	0	0	DOMESTIC
84033		CITRANO SAMUAL	40.86361	-75.81000	90	OPEN HOLE	18	0	DOMESTIC
84034		MARADEO JOSEPH	40.86667	-75.79806	70	OPEN HOLE	20	20	DOMESTIC
84035		COULLUGA SILL	40.86778	-75.79222	130	OPEN HOLE	0	60	DOMESTIC
84036		TANE W	40.86778	-75.79000	125	OPEN HOLE	10	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
84037		HAK H	40.86722	-75.81833	100	OPEN HOLE	35	42	DOMESTIC
84038	10/1/1980	GERHARD S	40.92139	-75.87611	200	OPEN HOLE	15	32	DOMESTIC
84039	8/1/1983	SENCY J	40.89722	-75.93139	140	OPEN HOLE	20	40	DOMESTIC
84040	11/1/1980	MURPHY N	40.91972	-75.85917	275	OPEN HOLE	0	0	DOMESTIC
84041	11/1/1980	ABBEY F	40.92917	-75.84556	275	OPEN HOLE	30	48	DOMESTIC
84042	7/1/1981	HUMENICK D	40.92111	-75.86139	160	OPEN HOLE	30	12	DOMESTIC
84043	9/1/1989	SURAUICZ L	40.89667	-75.89222	475	OPEN HOLE	3	40	DOMESTIC
84044	4/1/1990	MAKES B	40.89361	-75.89528	175	OPEN HOLE	15	45	DOMESTIC
84045	4/1/1988		40.92806	-75.84028	250	OPEN HOLE	8	40	DOMESTIC
84046	4/1/1986	MALESKI M	40.92583	-75.84833	201	OPEN HOLE	10	35	DOMESTIC
84047	10/1/1989	KEPPING H	40.92167	-75.88389	160	OPEN HOLE	70	18	DOMESTIC
84048	11/1/1986	CRAWFORD	40.88778	-75.91972	160	OPEN HOLE	25	26	DOMESTIC
84073	1/1/1966	VIC'S TAVERN	40.91583	-75.86750	263	OPEN HOLE	10	100	DOMESTIC
84074	1/1/1967	RIDGE RUNNER	40.94000	-75.84389	208	OPEN HOLE	10	100	DOMESTIC
84075		MATECHECK JOS	40.92167	-75.86167	185	OPEN HOLE	7	58	DOMESTIC
84076		HINKLE ROOFING	40.93417	-75.84333	189	OPEN HOLE	20	55	DOMESTIC
84077		SERFOSS GRANT	40.90111	-75.91056	95	OPEN HOLE	35	15	DOMESTIC
84078		PETROLE JAMES	40.89083	-75.91806	170	OPEN HOLE	30	20	DOMESTIC
84079		ZUMAR JOHN JR	40.92917	-75.84611	425	OPEN HOLE	10	136	DOMESTIC
84080		ZUMAR JOHN	40.93250	-75.84083	250	OPEN HOLE	10	80	DOMESTIC
84081		HOMINICK LEO	40.92500	-75.86667	140	OPEN HOLE	30	20	INDUSTRIAL
84082		HALE JOE	40.92611	-75.87389	185	OPEN HOLE	22	25	DOMESTIC
84083	1/1/1966	WALKE J J	40.89583	-75.82972	182	OPEN HOLE	15	40	DOMESTIC
84084		RISDON	40.89500	-75.89639	120	OPEN HOLE	18	14	DOMESTIC
84087		PUGH ROBERT	40.88917	-75.92444	375	OPEN HOLE	12	110	DOMESTIC
84088	1/1/1968	VOGEL KENNETH	40.93500	-75.84139	100	OPEN HOLE	30	35	
84089		TEE PATRICK	40.92417	-75.86444	400	OPEN HOLE	7	60	DOMESTIC
84090		HARTRANFT ROBT	40.92778	-75.85833	150	OPEN HOLE	15	73	DOMESTIC
84091		MALESKI LOU	40.92444	-75.84861	170	OPEN HOLE	22	50	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
84092		ODONELL JOSEPH	40.89056	-75.91972	230	OPEN HOLE	20	40	DOMESTIC
84093		YASCONITCH GREG	40.91972	-75.85889	150	OPEN HOLE	12	65	DOMESTIC
84094		OLOSKA LAWRENCE	40.91806	-75.85833	400	OPEN HOLE	7	28	DOMESTIC
84095		JENIGAN	40.89028	-75.91750	150	OPEN HOLE	0	6	DOMESTIC
84096	1/1/1971	KNEPPER MABEL	40.92972	-75.84528	170	OPEN HOLE	25	28	DOMESTIC
84097		DOUGLAS J	40.92583	-75.85222	375	OPEN HOLE	15	78	DOMESTIC
84098		FREED HOWARD	40.91250	-75.87472	300	OPEN HOLE	25	80	DOMESTIC
84099		FREDERICK WM	40.92694	-75.87417	150	OPEN HOLE	25	38	DOMESTIC
84100		DANANHOWER	40.92722	-75.87583	160	OPEN HOLE	25	80	DOMESTIC
84101		MURPHY N	40.89417	-75.89917	200	OPEN HOLE	15	89	DOMESTIC
84102		R&R HOMES	40.88667	-75.92639	180	OPEN HOLE	25	25	DOMESTIC
84103		HARVILLA A	40.89889	-75.94000	270	OPEN HOLE	9	0	DOMESTIC
84104		SENEY KEN	40.89778	-75.94000	125	OPEN HOLE	30	40	DOMESTIC
84105		CHERNANSKY PETE	40.88444	-75.93722	240	OPEN HOLE	20	40	DOMESTIC
85556	1/1/1968	TIMSON MR	41.00694	-76.35472	110	OPEN HOLE	12	32	DOMESTIC
85776	5/1/1983	SUMMIT HILL AUTH.	40.81861	-75.85944	400	OPEN HOLE	350	0	PUBLIC SUPPLY
85788		ALLESCH J	40.82389	-75.85222	125	OPEN HOLE	15	38	DOMESTIC
85789		BOYLE B	40.82306	-75.85278	95	OPEN HOLE	20	30	DOMESTIC
85790		MILLER IRVIN	40.82250	-75.85444	105	OPEN HOLE	20	35	DOMESTIC
85791		FOULK M	40.82083	-75.85972	106	OPEN HOLE	20	30	DOMESTIC
85792		HORRAT J	40.81972	-75.86111	100	OPEN HOLE	20	20	DOMESTIC
85793		KRUSLICKY P	40.81528	-75.87333	97	OPEN HOLE	20	20	DOMESTIC
87250		STRAUB H W	40.92528	-76.44750	205	OPEN HOLE	6	0	DOMESTIC
92305	1/1/1967	VAN HUSS DENNIS	41.18889	-76.51639	30	OPEN HOLE	10	7	DOMESTIC
92306		CONSOL CIGAR CO	41.07833	-76.24111	284		0	0	INDUSTRIAL
92307		CONSOL CIGAR CO	41.06139	-76.24222	151		0	0	INDUSTRIAL
92308		BERWICK WATER C	41.05139	-76.25889	473		381	0	PUBLIC SUPPLY
92309		BERWICK WATER C	41.05444	-76.23167	160	OPEN HOLE	500	0	PUBLIC SUPPLY
92310		BERWICK WATER C	41.05417	-76.23222	90	OPEN HOLE	500	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92311		BERWICK WATER C	41.05389	-76.23278	87	OPEN HOLE	500	0	PUBLIC SUPPLY
92312		ALLEY JOSEPH	41.05111	-76.26778	75	OPEN HOLE	10	0	DOMESTIC
92313	1/1/1969	FREY MRS	41.00083	-76.45417	100	OPEN HOLE	10	0	DOMESTIC
92314	1/1/1966	KAWNEER CO INC	41.00083	-76.45028	355	OPEN HOLE	20	30	DOMESTIC
92315	1/1/1966	KAWNEE CO INC	41.00083	-76.45028	415	OPEN HOLE	100	15	DOMESTIC
92316	1/1/1982	KURIAN J	40.95139	-76.31139	123	OPEN HOLE	10	0	DOMESTIC
92317	10/1/1981	RHODES S	40.96444	-76.35278	180	OPEN HOLE	25	20	DOMESTIC
92318	9/6/1974	OLANICH J	40.96250	-76.32611	200		4	0	DOMESTIC
92319	10/9/1974	FISHER K	40.96111	-76.32778	200		12	0	DOMESTIC
92320	8/27/1975	SMITH N	40.95333	-76.32139	110		20	10	DOMESTIC
92321	8/26/1975	SHUMAN W	40.97056	-76.21667	125		22	0	DOMESTIC
92324	1/1/1968	STEELY J	40.95417	-76.30417	82	OPEN HOLE	12	0	DOMESTIC
92325	1/1/1968	STEELY B	40.95389	-76.30222	114	OPEN HOLE	20	0	DOMESTIC
92326	1/1/1967	ZEHNER C	40.97778	-76.22056	109	OPEN HOLE	16	0	DOMESTIC
92327	1/1/1967	HOUTZ A	40.97667	-76.28889	200	OPEN HOLE	5	0	DOMESTIC
92328	1/1/1967	FREY D	40.97278	-76.30139	135	OPEN HOLE	8	0	DOMESTIC
92329	1/1/1967	DAVIS N	40.93333	-76.24556	176	OPEN HOLE	5	0	DOMESTIC
92330	4/1/1985	BARCHAK S	41.20306	-76.38056	41	OPEN HOLE	20	0	INDUSTRIAL
92331	4/1/1985	BARCHAK S	41.20278	-76.38139	50	SCREEN	10	0	
92332	4/1/1985	BARCHAK S	41.20417	-76.36806	41	SCREEN	10	0	
92333	4/1/1985	JOSUHT A	41.19139	-76.37861	398	OPEN HOLE	2	0	DOMESTIC
92334	4/19/1985	BUCKALEW P	41.23389	-76.33472	400	OPEN HOLE	1	0	DOMESTIC
92335	11/15/1977	ENANICK F	41.21917	-76.34583	118		40	15	DOMESTIC
92336	3/1/1974	BERGER M	41.19722	-76.33056	245		4	0	DOMESTIC
92337	5/6/1975	BARDO R	41.16500	-76.42028	410		7	0	DOMESTIC
92338	10/1/1974	BRYNE R	41.20222	-76.35194	105		95	0	DOMESTIC
92339	9/1/1974	GRAZZYK L	41.23972	-76.34139	350		8	0	DOMESTIC
92340	6/1/1982	LITTLE G	41.19417	-76.38722	30	OPEN HOLE	15	0	DOMESTIC
92343	1/1/1966	HOMAN S	41.17083	-76.30417	133	OPEN HOLE	2	24	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92344	1/1/1968	HARVEY C	41.18889	-76.37639	188	OPEN HOLE	3	15	DOMESTIC
92345	1/1/1967	EVERETT E	41.21583	-76.37083	101	OPEN HOLE	16	10	DOMESTIC
92346	1/1/1967	SELLERS GEO	41.18889	-76.46222	114	OPEN HOLE	4	0	DOMESTIC
92347	1/1/1967	LANBACH M	41.21278	-76.37722	126	OPEN HOLE	16	80	DOMESTIC
92348	1/1/1967	SORDONI CONS CO	41.20528	-76.38000	171	OPEN HOLE	37	21	DOMESTIC
92349	1/1/1967	HESS LELAND	41.19722	-76.38500	50	OPEN HOLE	20	10	DOMESTIC
92350	1/1/1970	MACDERMOTT DON	41.19500	-76.38833	140	OPEN HOLE	40	0	DOMESTIC
92351	1/1/1973	GARCIA E	41.17417	-76.38333	42	OTHER	30	0	DOMESTIC
92352	3/8/1983	WOLFINGER HOMES	41.06833	-76.26944	172	OPEN HOLE	15	0	DOMESTIC
92353	11/6/1984	MILLER P	41.10250	-76.22972	275	OPEN HOLE	6	0	DOMESTIC
92354	9/14/1984	RYAN W	41.05722	-76.28528	175	OPEN HOLE	20	0	DOMESTIC
92355	6/28/1985	RABER T	41.10083	-76.23111	225	OPEN HOLE	6	0	DOMESTIC
92356	5/4/1985	HUTTON R	41.07278	-76.29278	75	OPEN HOLE	15	0	DOMESTIC
92357	3/21/1985	SMITHS BAIT SHOP	41.06917	-76.27500	100	OPEN HOLE	30	0	DOMESTIC
92358	6/4/1984	ORLANDO J	41.07500	-76.26528	175	OPEN HOLE	3	0	DOMESTIC
92359	11/23/1983	KLINESMITH D	41.09583	-76.25750	177	OPEN HOLE	8	0	DOMESTIC
92360	5/12/1983	KARC M	41.10972	-76.22972	200	OPEN HOLE	6	0	DOMESTIC
92361	5/12/1983	VANDERMARK R	41.08111	-76.23722	175	OPEN HOLE	6	0	DOMESTIC
92362	8/5/1982	SEELEY E	41.04889	-76.25556	98	OPEN HOLE	12	0	DOMESTIC
92363	9/8/1982	WAGNER W	41.05917	-76.29722	225	OPEN HOLE	3	0	DOMESTIC
92364	9/27/1982	MILLER E	41.08750	-76.27639	300	OPEN HOLE	4	0	DOMESTIC
92365	9/29/1982	ROBBINS W	41.09194	-76.25944	200	OPEN HOLE	6	0	DOMESTIC
92366	10/14/1982	HOLLINGAER H	41.09167	-76.25500	160	OPEN HOLE	30	0	DOMESTIC
92367	11/17/1982	ALBERTSON T	41.08556	-76.25139	122	OPEN HOLE	5	0	DOMESTIC
92368	11/8/1982	GITZ R	41.08139	-76.28472	150	OPEN HOLE	15	0	DOMESTIC
92369	6/28/1982	WHITENIGHT D	41.09028	-76.27306	200	OPEN HOLE	5	0	DOMESTIC
92370	9/2/1981	MENGLE W	41.00611	-76.29583	385	OPEN HOLE	20	0	DOMESTIC
92371	11/7/1981	HUMMEL A	41.05694	-76.28806	300	OPEN HOLE	6	0	DOMESTIC
92372	4/4/1981	KELCHNER R	41.06194	-76.30139	97	OPEN HOLE	10	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92373	3/24/1981	TRAUGH J	41.08333	-76.26889	150	OPEN HOLE	15	0	DOMESTIC
92374	1/1/1981	SHELHAMER K	41.07444	-76.36028	300	OPEN HOLE	4	0	DOMESTIC
92375	6/24/1981	DELLEGROTTI L	41.09139	-76.26167	200	OPEN HOLE	5	0	DOMESTIC
92376	4/3/1981	HUNTINGTON R	41.06111	-76.30222	100	OPEN HOLE	10	0	DOMESTIC
92377	6/17/1981	ECKROTH D	41.10028	-76.27944	200	OPEN HOLE	5	0	DOMESTIC
92378	9/12/1980	HOSLER R	41.09028	-76.26944	100	OPEN HOLE	20	0	DOMESTIC
92379	9/25/1980	KOWALCHICK S	41.07000	-76.25472	150	OPEN HOLE	0	0	DOMESTIC
92380	11/1/1980	WHITMIRE C	41.09778	-76.26056	150	OPEN HOLE	10	0	DOMESTIC
92381	11/3/1980	HARRISON R	41.09833	-76.26111	175	OPEN HOLE	9	0	DOMESTIC
92382	7/25/1980	YALCH A	41.10111	-76.25417	150	OPEN HOLE	7	0	DOMESTIC
92383	7/28/1980	WELSH J	41.07361	-76.26639	75	OPEN HOLE	0	0	DOMESTIC
92384	9/4/1980	CAMBELL A	41.06083	-76.29972	75	OPEN HOLE	10	0	DOMESTIC
92385	8/19/1983	KLINGER L	41.06250	-76.25389	160	OPEN HOLE	9	0	DOMESTIC
92386	7/21/1982	LERRO R	41.06389	-76.31722	125	OPEN HOLE	45	0	DOMESTIC
92387	9/24/1982	LONG D	41.06528	-76.33139	165	OPEN HOLE	15	0	DOMESTIC
92388	6/25/1981	WOLFINGER HOMES	41.07694	-76.32139	175	OPEN HOLE	7	0	DOMESTIC
92389	6/8/1981	KEPNER F	41.07167	-76.24500	185	OPEN HOLE	40	0	DOMESTIC
92391	1/1/1967	ST PETERS CHURC	41.05000	-76.30556	175	OPEN HOLE	3	100	
92392	1/1/1967	BODNAR WASIL	41.07361	-76.26111	73	OPEN HOLE	40	25	DOMESTIC
92393	1/1/1967	JONES SIMON	41.08500	-76.26806	135	OPEN HOLE	5	20	DOMESTIC
92394	1/1/1967	FESTER J	41.06639	-76.29972	115	OPEN HOLE	8	75	DOMESTIC
92395	1/1/1967	MELURA A	41.07083	-76.26694	133	OPEN HOLE	10	0	DOMESTIC
92396	1/1/1967	KULP N	41.06389	-76.31250	65	OPEN HOLE	10	0	DOMESTIC
92397	1/1/1967	DENNIS B	41.06361	-76.31000	46	OPEN HOLE	9	7	DOMESTIC
92398	1/1/1967	WOLFINGER	41.09972	-76.24444	120	OPEN HOLE	6	30	DOMESTIC
92399	1/1/1967	COMESTOCK J	41.05389	-76.27194	225	OPEN HOLE	4	40	DOMESTIC
92400	1/1/1967	SMITH R	41.07417	-76.29667	132	OPEN HOLE	10	10	DOMESTIC
92401	1/1/1967	CAMPBELL H	41.06917	-76.29028	93	OPEN HOLE	50	7	DOMESTIC
92402	1/1/1968	VOUGHT R J	41.05417	-76.26806	210	OPEN HOLE	20	140	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92403	1/1/1968	MCELRATH JR J	41.04583	-76.26806	73	OPEN HOLE	30	35	DOMESTIC
92404	1/1/1968	WHITMORE D	41.06111	-76.29917	86	OPEN HOLE	15	37	DOMESTIC
92405	1/1/1968	WHITTERMAN C	41.06083	-76.29861	90	OPEN HOLE	8	75	DOMESTIC
92406	1/1/1967	WHITMYER VERNON	41.09444	-76.25500	150	OPEN HOLE	6	0	DOMESTIC
92407	1/1/1966	ALBERTSON R	41.09083	-76.25778	115	OPEN HOLE	15	30	DOMESTIC
92408	1/1/1966	WOLFINGER	41.09139	-76.26250	175	OPEN HOLE	6	60	DOMESTIC
92409	1/1/1966	WALTMAN H J	41.08528	-76.25750	130	OPEN HOLE	7	65	DOMESTIC
92410	1/1/1966	CROOP W H	41.05389	-76.26444	120	OPEN HOLE	7	25	DOMESTIC
92411	1/1/1967	MCELRATH J	41.04667	-76.45722	75	OPEN HOLE	15	25	DOMESTIC
92412	1/1/1968		41.06833	-76.25806	12	OPEN HOLE	14	0	DOMESTIC
92413	1/1/1968	HACK & SONS C R	41.06667	-76.27083	66	OPEN HOLE	15	35	DOMESTIC
92414	1/1/1968	NAUGLE A	41.07528	-76.26167	50	OPEN HOLE	15	1	DOMESTIC
92415	1/1/1974	WEAVER DEAN	41.10000	-76.31167	150	OPEN HOLE	8	0	DOMESTIC
92416	1/1/1972	MAGEE ROBERT	41.10000	-76.31167	75	OPEN HOLE	8	5	DOMESTIC
92417	1/1/1974	CROTHERS WM	41.10000	-76.31167	125	OPEN HOLE	6	0	DOMESTIC
92418	1/1/1975	BOWER VAUGHN	41.10000	-76.31167	80	OPEN HOLE	12	6	DOMESTIC
92419	1/1/1973	LAUBACH DAVID	41.10000	-76.31167	100	OPEN HOLE	7	0	DOMESTIC
92420	1/1/1974	WELSH HAY	41.10000	-76.31167	125	OPEN HOLE	8	0	DOMESTIC
92421	1/1/1969	SMITH JACK	41.09250	-76.25500	135	OPEN HOLE	8	0	DOMESTIC
92422	1/1/1970	COLLINS E	41.09250	-76.25500	185	OPEN HOLE	10	0	DOMESTIC
92423	1/1/1973	DENT JACK	41.09250	-76.25500	150	OPEN HOLE	12	0	DOMESTIC
92424	1/1/1974	SITLER ALLEN	41.09250	-76.25500	175	OPEN HOLE	12	0	DOMESTIC
92425	1/1/1972	GRASLEY HAROLD	41.09250	-76.25500	150	OPEN HOLE	8	0	DOMESTIC
92426	1/1/1969		41.09250	-76.25500	150	OPEN HOLE	8	0	DOMESTIC
92427	1/1/1974	KISLY WALTER	41.09250	-76.25500	150	OPEN HOLE	6	0	DOMESTIC
92428	1/1/1971	DEFLACE B	41.07667	-76.26667	150	OPEN HOLE	15	0	DOMESTIC
92429	1/1/1971	MILLER	41.07667	-76.26667	125	OPEN HOLE	7	0	DOMESTIC
92430	1/1/1970	RATAMESS LEO	41.07667	-76.26667	110	OPEN HOLE	8	0	DOMESTIC
92431	1/1/1971	WOLFINGER	41.07667	-76.26667	110	OPEN HOLE	0	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92432	1/1/1974	HOOK	41.07667	-76.26667	100	OPEN HOLE	10	0	DOMESTIC
92433	1/1/1974	HOUGH HAROLD	41.09167	-76.27500	125	OPEN HOLE	10	0	DOMESTIC
92434	1/1/1974	HOUGH HAROLD	41.09167	-76.27500	125	OPEN HOLE	10	0	DOMESTIC
92435	1/1/1974	DAVIS RONALD	41.09167	-76.27500	175	OPEN HOLE	8	0	DOMESTIC
92436	1/1/1975	LEX DONALD	41.09167	-76.27500	135	OPEN HOLE	6	0	DOMESTIC
92437	1/1/1973	MCDERMITT DON	41.09167	-76.27500	150	OPEN HOLE	12	0	DOMESTIC
92438	1/1/1972	ZWOLSKI JOSEPH	41.09167	-76.27500	100	OPEN HOLE	7	0	DOMESTIC
92439	1/1/1974	KNORR LARRY	41.09167	-76.27500	175	OPEN HOLE	5	0	DOMESTIC
92440	1/1/1972	VATTALAS ROY	41.09167	-76.27500	125	OPEN HOLE	10	0	DOMESTIC
92441	1/1/1973	GORDAN MR	41.09167	-76.27500	150	OPEN HOLE	6	0	DOMESTIC
92442	1/1/1972	KECK DOYLE	41.08611	-76.29083	135	OPEN HOLE	10	0	DOMESTIC
92443	1/1/1974	PENNYPACKER C	41.09611	-76.29750	150	OPEN HOLE	8	0	DOMESTIC
92444	1/1/1974	KISLY WALTER	41.08833	-76.25694	175	OPEN HOLE	10	0	DOMESTIC
92445	1/1/1974	O'NEAL RICHARD	41.06667	-76.29417	198	OPEN HOLE	5	0	DOMESTIC
92446	1/1/1974	NEWMAN BARRY	41.06667	-76.29417	185	OPEN HOLE	25	0	DOMESTIC
92447	1/1/1974	BOMBERSHIME H	41.06833	-76.29750	125	OPEN HOLE	8	0	DOMESTIC
92448	1/1/1972	CORRATHERS WM	41.07222	-76.29611	105	OPEN HOLE	8	65	DOMESTIC
92449	1/1/1972	CARRATHERS M	41.07222	-76.29611	100	OPEN HOLE	8	0	DOMESTIC
92450	1/1/1972	KELCHNER RALPH	41.06583	-76.29833	75	OPEN HOLE	14	0	DOMESTIC
92451		HUNSINGER DON	41.07889	-76.23667	100	OPEN HOLE	15	0	DOMESTIC
92452		VENCLOSKI JOSPH	41.11944	-76.23750	100	OPEN HOLE	10	0	DOMESTIC
92453		VENCLOSKI DAVID	41.11806	-76.23694	200	OPEN HOLE	9	0	DOMESTIC
92454	1/1/1986	WEAVER B	40.92972	-76.45861	175	OPEN HOLE	10	0	DOMESTIC
92455	10/4/1979	CATAWISSA WATER CO	40.93139	-76.44583	400		60	0	
92456	10/10/1979	CATAWISSA WATER CO	40.93194	-76.44639	400		45	0	
92457	6/1/1983	HILLARD O	40.98417	-76.42111	148	OPEN HOLE	15	0	DOMESTIC
92459	1/1/1967	BREECH I FESTER	40.96306	-76.44639	170	OPEN HOLE	5	40	DOMESTIC
92460	1/1/1968	MILLER LEO	40.94667	-76.44944	160	OPEN HOLE	6	60	DOMESTIC
92461	1/1/1968	SENSON R	40.97083	-76.43056	175	OPEN HOLE	10	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92462	1/1/1966	MAYERNICK T G	40.93000	-76.43917	127	OPEN HOLE	20	0	DOMESTIC
92463	1/1/1966	HOWER G	40.95917	-76.44722	328	OPEN HOLE	3	0	DOMESTIC
92464	1/1/1966	FLEMING S R	40.91833	-76.46944	196	OPEN HOLE	10	0	DOMESTIC
92465	1/1/1967	HOWER A	40.98722	-76.43028	130	OPEN HOLE	6	30	DOMESTIC
92466	1/1/1968	DEROSE P	40.98333	-76.42194	95	OPEN HOLE	8	0	DOMESTIC
92467	1/1/1967	WOYTKO P	40.89222	-76.38306	106	OPEN HOLE	12	0	DOMESTIC
92468	1/1/1968	MINNEL D	40.85417	-76.47583	115	OPEN HOLE	11	0	DOMESTIC
92469	1/1/1967	BEAVER C	40.84306	-76.45917	101		50	0	DOMESTIC
92470	1/1/1969	SHERVITSKI JAS	40.88000	-76.48278	300	OPEN HOLE	7	0	DOMESTIC
92471	1/1/1969	BROWN DAVE	40.84167	-76.46917	160	OPEN HOLE	11	0	DOMESTIC
92472	1/1/1970	DEMANINCOR MARY	40.84583	-76.50056	136	OPEN HOLE	6	0	DOMESTIC
92473	10/23/1985	DAVISON D	41.15833	-76.29444	200	OPEN HOLE	40	0	DOMESTIC
92474	5/1/1984	GREGER S	41.14806	-76.32056	195	OPEN HOLE	10	0	DOMESTIC
92475	6/28/1983	KELLER C	41.17639	-76.38528	300	OPEN HOLE	4	0	DOMESTIC
92476	6/1/1983	RUNTAG N	41.14000	-76.33639	98	OPEN HOLE	4	0	DOMESTIC
92477	11/16/1982	CROOP R	41.13000	-76.29000	100	OPEN HOLE	25	0	DOMESTIC
92478	3/27/1981	HENRICK J	41.13000	-76.29000	200	OPEN HOLE	20	0	DOMESTIC
92479	9/13/1975	JOHNSON D	41.15778	-76.33611	175		7	0	DOMESTIC
92480	1/5/1976	CHESNET D	41.12917	-76.38778	100		4	0	DOMESTIC
92481	6/1/1978	HESS P	41.15528	-76.35194	80	OPEN HOLE	6	20	DOMESTIC
92482	9/11/1976	STEZAK H	41.16639	-76.32750	200		8	0	DOMESTIC
92483	3/2/1979	ASK K	41.10694	-76.34861	225		50	0	DOMESTIC
92484	7/27/1974	KELLER E	41.10306	-76.37556	24		20	22	
92485	12/29/1975	HOUGH H	41.10056	-76.41389	225		7	0	DOMESTIC
92486	2/3/1984	SALAMA R	41.12444	-76.31944	170	OPEN HOLE	5	0	DOMESTIC
92487	11/1/1975	FRITZ R	41.15222	-76.30083	80		10	0	DOMESTIC
92488	1/1/1967	STERNER MRS R	41.11056	-76.36167	28	OPEN HOLE	20	10	DOMESTIC
92489	1/1/1967	SCHAD G	41.10139	-76.36722	83	OPEN HOLE	20	6	DOMESTIC
92490	1/1/1967	RUCH JR CLARK	41.13056	-76.30417	125	OPEN HOLE	10	53	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92491	1/1/1968	YOST A A	41.14722	-76.31778	75	OPEN HOLE	5	13	DOMESTIC
92492	1/1/1968	MCMAHON W J	41.13000	-76.39194	160	OPEN HOLE	10	0	DOMESTIC
92493	1/1/1968	NEMPHREY G	41.13056	-76.30556	80	OPEN HOLE	30	24	DOMESTIC
92494	1/1/1966	POWERS C G	41.13111	-76.30056	90	OPEN HOLE	20	20	DOMESTIC
92495	1/1/1968	LINDEMAN J	41.13250	-76.30806	95	OPEN HOLE	10	25	DOMESTIC
92496	1/1/1968	BOSTON BROS	41.16444	-76.31722	113	OPEN HOLE	6	35	DOMESTIC
92497	1/1/1968	DOTY ALFRED	41.16806	-76.31500	90	OPEN HOLE	2	35	DOMESTIC
92498	1/1/1968	BOSTON BERRY	41.16306	-76.31806	95	OPEN HOLE	6	25	DOMESTIC
92499	1/1/1969	HESS DON	41.14056	-76.31250	75		25	20	DOMESTIC
92500	1/1/1973	TROY SYLVIA	41.15722	-76.37444	32	OPEN HOLE	25	0	DOMESTIC
92501	1/1/1973	EPICHECA CAMP	41.13500	-76.36417	100	OPEN HOLE	0	0	DOMESTIC
92502	1/1/1974	RIBBLE E	41.15722	-76.36417	27	OPEN HOLE	16	0	DOMESTIC
92503	1/1/1972	LINDNER HAROLD	41.14833	-76.31667	74	OPEN HOLE	8	10	DOMESTIC
92504	1/1/1974	WILLIAMS LEWIS	41.15167	-76.31667	225	OPEN HOLE	10	30	DOMESTIC
92505	1/1/1971	WELK GEORGE	41.14750	-76.32583	100	OPEN HOLE	10	30	DOMESTIC
92506	1/1/1974	HEINTZELMAN R	41.16583	-76.32000	225	OPEN HOLE	7	0	DOMESTIC
92507	1/1/1970	LISA RAY	41.15000	-76.36667	122	OPEN HOLE	12	0	DOMESTIC
92508	1/1/1968	ROHRBACH FARMS	40.97500	-76.52222	235	OPEN HOLE	18	0	DOMESTIC
92509	7/1/1979	BANGS D	41.14861	-76.44861	230	OPEN HOLE	4	30	DOMESTIC
92510	10/1/1981	REESE C	41.14222	-76.42278	148	OPEN HOLE	10	0	DOMESTIC
92511	3/25/1981	MUSSELMAN	41.15111	-76.55583	300		5	0	DOMESTIC
92512	7/17/1975	KILE A	41.13667	-76.44667	110		6	0	DOMESTIC
92513	9/28/1980	BEAGLE R	41.14972	-76.46528	198	OPEN HOLE	4	22	DOMESTIC
92514	7/1/1978	ABRACZENSKA J	41.15111	-76.50083	110	OPEN HOLE	15	30	DOMESTIC
92515	1/20/1979	BOATMAN F	41.12972	-76.49139	123	OPEN HOLE	8	0	DOMESTIC
92516	12/28/1978	BOATMAN F	41.12861	-76.50306	123	OPEN HOLE	8	0	DOMESTIC
92517	5/1/1984	GREENWOOD TWP	41.13583	-76.47056	80	OPEN HOLE	10	10	PUBLIC SUPPLY
92518	6/4/1977	DUKL R	41.12472	-76.42889	64		7	18	DOMESTIC
92519	9/15/1977	DILTZ D	41.13556	-76.41444	95		8	35	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92520	7/1/1979	HOCK T	41.11528	-76.46250	125	OPEN HOLE	8	20	DOMESTIC
92521	5/1/1980	DEMOTT J	41.08944	-76.51639	248	OPEN HOLE	3	0	DOMESTIC
92522	8/11/1980	RENNER S	41.11944	-76.51250	55	OPEN HOLE	15	6	DOMESTIC
92523	8/20/1975	NOSS H	41.17444	-76.41417	71		50	0	DOMESTIC
92525	1/1/1967	MCHENRY R	41.11278	-76.52333	110	OPEN HOLE	3	10	DOMESTIC
92526	1/1/1967	ORLASKI J	41.14861	-76.53194	48	OPEN HOLE	10	5	DOMESTIC
92527	1/1/1967	BAMP D E	41.14667	-76.45833	77	OPEN HOLE	10	17	DOMESTIC
92528	1/1/1966	PUTERBAUGH R	41.12944	-76.45333	90	OPEN HOLE	5	40	DOMESTIC
92529	1/1/1966	EVANS D	41.12083	-76.52361	70	OPEN HOLE	20	10	DOMESTIC
92530	1/1/1967	TALCOTT T	41.13556	-76.45972	125	OPEN HOLE	10	17	DOMESTIC
92531	1/1/1967	HAFFEY E	41.14167	-76.42778	44	OPEN HOLE	20	3	DOMESTIC
92532	1/1/1968	EYER J	41.12944	-76.45361	36	OPEN HOLE	0	0	DOMESTIC
92533	1/1/1967	KARNS C	41.11111	-76.52083	175	OPEN HOLE	0	15	DOMESTIC
92534	1/1/1968	WINSKI DR L	41.12222	-76.54583	125	OPEN HOLE	5	23	DOMESTIC
92535	1/1/1968	BROWN MRS M	41.14667	-76.45833	162	OPEN HOLE	4	30	DOMESTIC
92536	9/1/1985	ELLIS DEV CO	41.02194	-76.47139	273	OPEN HOLE	15	0	PUBLIC SUPPLY
92537	9/1/1984	DRAKE R	40.99500	-76.53778	100	OPEN HOLE	6	20	DOMESTIC
92538	5/1/1984		41.02583	-76.48194	123	OPEN HOLE	20	0	DOMESTIC
92539	6/1/1984	ROBERTS T	41.01722	-76.50556	298	OPEN HOLE	2	0	DOMESTIC
92540	7/1/1983	KLINGER R	41.02556	-76.48417	123	OPEN HOLE	20	0	DOMESTIC
92541	8/1/1983	HOCK C	41.07583	-76.51194	448	OPEN HOLE	7	0	INDUSTRIAL
92542	10/1/1981	MILLARD W	41.04917	-76.49028	120	OPEN HOLE	15	0	PUBLIC SUPPLY
92545	1/1/1967	LONG MRS C	41.01944	-76.50556	80	OPEN HOLE	16	36	DOMESTIC
92546	1/1/1967	COLLINS J	41.02083	-76.51250	80	OPEN HOLE	5	20	DOMESTIC
92547	1/1/1967	MARTZ A	41.01806	-76.51806	120	OPEN HOLE	5	25	DOMESTIC
92548	1/1/1968	WOLFINGER	41.02639	-76.49417	195	OPEN HOLE	6	24	DOMESTIC
92549	1/1/1966	REICHARD EDGAR	40.99806	-76.48111	113	OPEN HOLE	20	88	DOMESTIC
92550	1/1/1966	WAGNER E	41.01944	-76.51944	300	OPEN HOLE	30	45	DOMESTIC
92551	1/1/1966	GIRTON A L	41.01944	-76.50139	63	OPEN HOLE	10	34	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92552	1/1/1968	BERGER W	40.98278	-76.48722	81	OPEN HOLE	16	20	DOMESTIC
92553	1/1/1966	MAGEE HARRY L	41.02556	-76.47944	60	OPEN HOLE	50	15	DOMESTIC
92554	6/1/1984	KING J	41.18444	-76.41333	398	OPEN HOLE	1	0	DOMESTIC
92555	4/12/1982	FLATT C	41.23694	-76.44083	140	OPEN HOLE	8	0	DOMESTIC
92556	4/12/1982	MILLER D	41.20917	-76.41806	200	OPEN HOLE	5	0	DOMESTIC
92557	9/8/1974	REMLEY E	41.19139	-76.31083	115		8	45	DOMESTIC
92558	1/1/1968	ELY C	41.23250	-76.42472	85	OPEN HOLE	7	35	DOMESTIC
92559	4/1/1983	WERNER F	40.90750	-76.41333	160	OPEN HOLE	15	0	DOMESTIC
92560	2/1/1985	SABO T	40.87528	-76.40333	163	OPEN HOLE	10	0	DOMESTIC
92561	12/7/1976	FETTERMAN L	40.88472	-76.38583	150		6	0	DOMESTIC
92562	1/1/1967	FLEMING C	40.87750	-76.37583	78	OPEN HOLE	5	0	DOMESTIC
92563	1/1/1967	HOUALL J	40.85333	-76.39833	85	OPEN HOLE	30	0	DOMESTIC
92564	1/1/1967	LEGAL BUCK CLUB	40.85972	-76.40250	86	OPEN HOLE	5	0	DOMESTIC
92565	1/1/1967	BELTZ K	40.88056	-76.36944	100	OPEN HOLE	12	0	DOMESTIC
92566	1/1/1966	FLEMING S	40.87806	-76.40278	86	OPEN HOLE	20	0	DOMESTIC
92567	1/1/1969	HORNBERGER P	40.88083	-76.40000	115	OPEN HOLE	15	0	DOMESTIC
92568	1/1/1969	CARL A	40.88056	-76.40056	140	OPEN HOLE	8	0	DOMESTIC
92569	1/1/1969	CARL D	40.90694	-76.41583	138	OPEN HOLE	12	0	DOMESTIC
92570	1/1/1969	BEAVER S	40.90722	-76.41583	45	OPEN HOLE	10	0	DOMESTIC
92571	1/1/1969	BITTNER R	40.90056	-76.41722	89	OPEN HOLE	9	0	DOMESTIC
92572	1/1/1969	KELLY Z B	40.91028	-76.40278	35	OPEN HOLE	8	0	DOMESTIC
92573	1/1/1970	KREISHER G	40.88000	-76.40278	115	OPEN HOLE	6	0	DOMESTIC
92574	1/1/1970	GETTY LEE	40.88056	-76.40083	82	OPEN HOLE	12	0	DOMESTIC
92575	1/1/1967	ST PAULS CHURCH	40.88083	-76.39917	128	OPEN HOLE	10	0	DOMESTIC
92576	1/1/1970	FRANCES ROBERT	40.89083	-76.39778	100	OPEN HOLE	10	0	DOMESTIC
92577	10/1/1985	WARNER A	41.11861	-76.55472	98	OPEN HOLE	20	3	DOMESTIC
92578	8/1/1985	BECK T	41.04583	-76.53028	225	OPEN HOLE	5	0	DOMESTIC
92579	5/1/1984	STRAUSSER L	41.13944	-76.60389	185	OPEN HOLE	4	75	DOMESTIC
92580	9/1/1983	DIEHL L	41.07056	-76.58861	423	OPEN HOLE	1	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92581	8/1/1923	LYONS H	41.09417	-76.54611	223	OPEN HOLE	20	0	STOCK
92582	9/1/1983	WILLIAMS R	41.09944	-76.59889	198	OPEN HOLE	10	0	DOMESTIC
92583	10/1/1981	BITLER G	41.06778	-76.52972	148	OPEN HOLE	10	0	DOMESTIC
92584	10/1/1981	FISHER B	41.08444	-76.57778	73	OPEN HOLE	12	0	DOMESTIC
92585		KICHEL S	41.08722	-76.57778	58		4	0	DOMESTIC
92586	1/1/1985	GARMAN W	41.02111	-76.49889	203	OPEN HOLE	6	0	DOMESTIC
92587	8/1/1984	KLINE W	41.07611	-76.51111	348	OPEN HOLE	1	0	DOMESTIC
92588	4/1/1984	MOSIER J	41.04583	-76.53000	73	OPEN HOLE	30	0	DOMESTIC
92589	8/1/1984	JOHNSON T	41.07056	-76.58861	60	OPEN HOLE	20	19	DOMESTIC
92593	1/1/1967	DIEHL MYRON	41.09028	-76.58056	55	OPEN HOLE	6	19	DOMESTIC
92594	1/1/1967	STINER D	41.09250	-76.39917	205	OPEN HOLE	2	12	DOMESTIC
92595	1/1/1967	PETERMAN C	41.13472	-76.53750	105	OPEN HOLE	10	36	DOMESTIC
92596	1/1/1967	EYER B	41.10833	-76.54306	115	OPEN HOLE	7	44	DOMESTIC
92597	1/1/1968	YERG HERBERT	41.14444	-76.61667	240	OPEN HOLE	10	150	DOMESTIC
92598	1/1/1968	AXE H	41.14444	-76.60833	90	OPEN HOLE	7	10	DOMESTIC
92599	1/1/1966	WILLIAMS R	41.09444	-76.58389	115	OPEN HOLE	5	15	DOMESTIC
92600	1/1/1966	NICHOLS W	41.08889	-76.41389	90	OPEN HOLE	2	20	DOMESTIC
92601	1/1/1966	MCCARTY R	41.10139	-76.60056	165	OPEN HOLE	20	44	DOMESTIC
92602	1/1/1968	WEATHERALL JAY	41.09028	-76.57639	99	OPEN HOLE	2	13	DOMESTIC
92603	1/1/1966	CYPHERS JAMES	41.07917	-76.61111	90	OPEN HOLE	4	10	DOMESTIC
92604	1/1/1968	MCGARGLE FRANK	41.10833	-76.62500	257	OPEN HOLE	4	10	DOMESTIC
92605	1/1/1967	ROBBINS DONALD	41.08750	-76.61944	76	OPEN HOLE	15	5	DOMESTIC
92606	1/1/1973	BOWERS DAVID	41.05833	-76.54417	104	OPEN HOLE	6	0	DOMESTIC
92607	1/1/1972	LAWTON RANDY	41.07444	-76.51222	90	OPEN HOLE	8	0	DOMESTIC
92608	7/27/1983	WYINGS O	40.96361	-76.35250	150	OPEN HOLE	30	0	DOMESTIC
92609	10/1/1981	SATO T	40.95833	-76.45083	151	OPEN HOLE	20	20	DOMESTIC
92610	11/1/1981	DEER J	40.98139	-76.38500	73	OPEN HOLE	12	0	DOMESTIC
92611	1/1/1968	WHITE P	40.97583	-76.37278	62	OPEN HOLE	20	0	DOMESTIC
92612	1/1/1966	HOWELL D	40.98056	-76.37806	110	OPEN HOLE	20	40	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92613	1/1/1966	BITLER W	40.99278	-76.41000	390	OPEN HOLE	2	60	DOMESTIC
92614	1/1/1966	PICKIN J	40.98333	-76.42250	230	OPEN HOLE	1	70	DOMESTIC
92615	1/1/1967	YEHEY C	40.99611	-76.41806	395	OPEN HOLE	30	35	DOMESTIC
92616	1/1/1972	HOUGH HAROLD	40.97750	-76.37222	58	OPEN HOLE	4	0	DOMESTIC
92617	1/1/1973	GASSERT SAM	40.96583	-76.37250	125	OPEN HOLE	14	0	DOMESTIC
92618	1/1/1973	ROD & GUN CLUB	40.84167	-76.37500	147	OPEN HOLE	16	0	PUBLIC SUPPLY
92619	3/19/1985	ARNOLDS GOLF COURSE	41.03694	-76.28528	125	OPEN HOLE	10	0	PUBLIC SUPPLY
92620	7/12/1985	ATEN F	41.03083	-76.27722	225	OPEN HOLE	30	0	DOMESTIC
92621	6/1/1985	EVANS O	41.01833	-76.30861	123	OPEN HOLE	15	0	DOMESTIC
92622	9/27/1984	DAVIS B	40.99917	-76.31417	200	OPEN HOLE	4	0	DOMESTIC
92623	7/19/1984	FISHER M	41.01306	-76.34028	225	OPEN HOLE	6	0	DOMESTIC
92624	5/1/1985	NUSS D	41.01361	-76.31667	98	OPEN HOLE	12	0	DOMESTIC
92625	4/1/1985	EXXON	41.02750	-76.31889	33		0	0	
92626	4/1/1985	EXXON	41.02806	-76.31833	34	SCREEN	0	0	
92627	4/1/1985	EXXON	41.02694	-76.31806	34		0	0	
92628	7/25/1983	HOFFMAN R	41.01556	-76.28944	275	OPEN HOLE	20	0	DOMESTIC
92629	10/21/1983	ERDMAN R	41.01111	-76.27306	150		15	0	DOMESTIC
92630	8/6/1983	ABRIZINSKAS E	41.01583	-76.31861	173	OPEN HOLE	4	0	DOMESTIC
92631	7/7/1982	YOUNG M	41.01361	-76.31250	225	OPEN HOLE	10	0	DOMESTIC
92632	7/6/1982	CLEAVER J	41.01250	-76.31250	190	OPEN HOLE	9	0	DOMESTIC
92633	8/23/1985	HUNSINGER D	41.02111	-76.31722	200	OPEN HOLE	6	0	DOMESTIC
92634	1/1/1967	SLUSSER P	40.99389	-76.33722	125	OPEN HOLE	8	0	DOMESTIC
92635	1/1/1967	MYERS W	41.01361	-76.27639	94	OPEN HOLE	8	30	DOMESTIC
92636	1/1/1967	BARNES V	41.03278	-76.30750	80	OPEN HOLE	20	0	DOMESTIC
92637	1/1/1967	BARNES V	41.03056	-76.31000	175	OPEN HOLE	4	0	DOMESTIC
92638	1/1/1967	SHINER W	41.01444	-76.25417	112		3	0	DOMESTIC
92639	1/1/1967	MENGLE REV W	41.01583	-76.29250	245	OPEN HOLE	4	145	DOMESTIC
92640	1/1/1968	LICKY AND BARNS	41.01528	-76.29222	76	OPEN HOLE	5	0	
92641	1/1/1966	COMMONWTH OF PA	41.00917	-76.26417	80	OPEN HOLE	30	32	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92642	1/1/1966	COMMONWTH OF PA	41.01000	-76.26389	80	OPEN HOLE	50	0	DOMESTIC
92643	1/1/1966	DOBLER D W	41.02611	-76.30250	60	OPEN HOLE	15	20	DOMESTIC
92644	1/1/1966	MOWERY CY	41.00667	-76.22500	85	OPEN HOLE	30	45	DOMESTIC
92645	1/1/1966	PIFER C	41.01250	-76.31722	67	OPEN HOLE	30	20	DOMESTIC
92646	1/1/1968	BARNES V	41.03417	-76.30083	125	OPEN HOLE	10	0	DOMESTIC
92647	1/1/1968	DODSON	41.03250	-76.30361	125	OPEN HOLE	10	0	DOMESTIC
92648	1/1/1968	HARRIS A	41.03139	-76.30611	55	OPEN HOLE	20	19	DOMESTIC
92649	1/1/1966	YODER H	41.02167	-76.24778	195	OPEN HOLE	6	75	DOMESTIC
92650	1/1/1967	BAKER MOBLE HOM	41.02556	-76.30472	120	OPEN HOLE	12	20	DOMESTIC
92651	1/1/1968	ERLEMIER LESTER	41.02944	-76.31528	90	OPEN HOLE	19	20	DOMESTIC
92652	1/1/1966	VOUGHT RAY	41.02278	-76.30000	90	OPEN HOLE	10	35	DOMESTIC
92653	1/1/1973	MAURRER MR	41.01333	-76.27000	275	OPEN HOLE	5	0	DOMESTIC
92654	1/1/1974	YODER RICHARD	41.02917	-76.23000	100	OPEN HOLE	6	0	DOMESTIC
92655	7/13/1981	MKAXIMIEK W	41.01389	-76.44639	375	OPEN HOLE	30	0	DOMESTIC
92656	7/10/1981	SPENGLER A	41.01278	-76.43056	275		6	0	DOMESTIC
92658	1/1/1967	SPONENBERG H	40.98750	-76.50694	138	OPEN HOLE	9	15	DOMESTIC
92659	1/1/1967	KARNES C	40.97500	-76.51389	93	OPEN HOLE	20	30	DOMESTIC
92660	1/1/1967	GIGER J	40.99333	-76.48972	154	OPEN HOLE	10	90	DOMESTIC
92661	1/1/1967	CARL J D	40.97778	-76.50833	89	OPEN HOLE	25	27	DOMESTIC
92662	1/1/1967	LITTLE CONST CO	40.98167	-76.49000	195	OPEN HOLE	3	15	DOMESTIC
92663	1/1/1967	WOOLRIDGE B	40.98194	-76.48556	43	OPEN HOLE	20	7	DOMESTIC
92664	1/1/1966	QUICK K	40.96722	-76.50833	75	OPEN HOLE	25	7	DOMESTIC
92665	1/1/1966	CUNNINGHAM H	40.98056	-76.49667	51	OPEN HOLE	15	7	DOMESTIC
92666	1/1/1966	LITTLE CONST CO	40.97917	-76.50278	215	OPEN HOLE	40	20	DOMESTIC
92667	1/1/1967	BLYER D	40.96389	-76.49444	215	OPEN HOLE	4	60	DOMESTIC
92668	1/1/1968	STREATER & SON	40.94861	-76.45611	500	OPEN HOLE	250	12	DOMESTIC
92669	1/1/1968	GOSS RAY	40.96806	-76.51389	52	OPEN HOLE	9	15	DOMESTIC
92670	1/1/1968	SHARPLESS D	40.95500	-76.48278	395	OPEN HOLE	20	0	DOMESTIC
92671	1/1/1966	FAUST LUTHER	40.94944	-76.47639	86	OPEN HOLE	5	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92672	1/1/1966	YURKOVSKY M	40.98000	-76.47167	41	OPEN HOLE	12	13	DOMESTIC
92673	1/1/1967	VAN HORN B	40.98722	-76.48111	52	OPEN HOLE	36	10	DOMESTIC
92674	10/1/1985	BARNS L	41.05167	-76.47972	273	OPEN HOLE	3	0	DOMESTIC
92675	7/1/1983	HUNINGER B	41.01417	-76.46639	98	OPEN HOLE	8	0	DOMESTIC
92676	7/1/1981	GREENLEY M	41.07833	-76.49778	123	OPEN HOLE	20	0	DOMESTIC
92677	4/21/1980	KNORR D	41.06139	-76.43889	140		50	0	DOMESTIC
92679	1/1/1967	WELLIVER CARL	41.05333	-76.47111	175	OPEN HOLE	3	25	DOMESTIC
92680	1/1/1967	DOYLE C	41.05361	-76.46611	127	OPEN HOLE	10	72	DOMESTIC
92681	1/1/1967	FUNK HOWARD	41.07167	-76.47500	127	OPEN HOLE	10	72	DOMESTIC
92682	1/1/1967	BROWN F	41.07278	-76.49944	175	OPEN HOLE	3	0	DOMESTIC
92683	1/1/1967	WELLIVER H	41.08000	-76.47722	134	OPEN HOLE	10	71	DOMESTIC
92684	1/1/1966	SHANER CARL	41.07556	-76.47056	175	OPEN HOLE	8	0	DOMESTIC
92685	1/1/1966	TURNER C A	41.06000	-76.47028	255	OPEN HOLE	2	67	DOMESTIC
92686	1/1/1968	DEWALD ROBERT	41.06806	-76.46944	133	OPEN HOLE	7	65	DOMESTIC
92687	1/1/1968	GILBERT HARRY	41.08583	-76.47917	131	OPEN HOLE	10	63	DOMESTIC
92688	1/1/1972	HOWELL RAYMOND	41.00972	-76.49000	120	OPEN HOLE	6	20	DOMESTIC
92689	11/28/1984	STOUFFER S	41.03778	-76.38167	200	OPEN HOLE	10	0	DOMESTIC
92690	5/1/1984	PADEN R	41.06528	-76.33056	100	OPEN HOLE	30	0	DOMESTIC
92691	10/9/1983	DOHL E	41.08389	-76.33833	150		10	0	DOMESTIC
92692	6/14/1983	CAMBELL E	41.08917	-76.32694	250	OPEN HOLE	5	0	DOMESTIC
92693	7/5/1983	ZENZEL F	41.07750	-76.29444	150	OPEN HOLE	10	0	DOMESTIC
92694	11/1/1983	SEESHOTZ R	41.03972	-76.35500	198	OPEN HOLE	12	0	DOMESTIC
92695	9/1/1983	GENSEMER J	41.04028	-76.41889	298	OPEN HOLE	5	0	DOMESTIC
92696	5/6/1981	MENGLE W	41.07583	-76.32917	150	OPEN HOLE	6	0	DOMESTIC
92697	8/1/1980	HARRIS E	41.07444	-76.35167	173	OPEN HOLE	10	0	DOMESTIC
92698	8/29/1980	LOAR J	41.04028	-76.41889	175	OPEN HOLE	12	0	DOMESTIC
92699	9/16/1980	ATEN S	41.07389	-76.32222	250	OPEN HOLE	0	0	DOMESTIC
92700	9/11/1980	MARKLE D	41.10750	-76.31083	125	OPEN HOLE	0	0	DOMESTIC
92701	7/1/1984	PRICE D	41.09639	-76.29611	198	OPEN HOLE	7	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92702	11/1/1982	LEE M	41.04889	-76.40639	148	OPEN HOLE	12	0	DOMESTIC
92703	1/1/1966	HAUGH REV E	41.07194	-76.38444	75	OPEN HOLE	8	0	DOMESTIC
92704	1/1/1968	RABICH JOHN	41.07028	-76.35611	85	OPEN HOLE	5	15	DOMESTIC
92705	1/1/1968	WOLFE HOMER	41.07250	-76.34917	40	OPEN HOLE	10	2	DOMESTIC
92706	1/1/1968	ECKROTE ROBERT	41.04306	-76.36806	47	OPEN HOLE	20	18	DOMESTIC
92707	1/1/1966	MILLER DONALD	41.06611	-76.33278	435	OPEN HOLE	3	5	DOMESTIC
92708	1/1/1966	WELLIVER H	41.05250	-76.33278	75	OPEN HOLE	15	18	DOMESTIC
92709	1/1/1973	KARCHNER HAROLD	41.07833	-76.35000	100	OPEN HOLE	10	0	DOMESTIC
92710	1/1/1972	WOLFINGER HOMES	41.07833	-76.35000	125	OPEN HOLE	8	0	DOMESTIC
92711	1/1/1972	WOLFINGER HOMES	41.07833	-76.35000	150	OPEN HOLE	8	0	DOMESTIC
92712	1/1/1972	DIETTERICK IRA	41.07833	-76.35000	150	OPEN HOLE	10	0	DOMESTIC
92713	1/1/1973	RAKICH JOHN	41.07833	-76.35000	200	OPEN HOLE	10	0	DOMESTIC
92714	1/1/1973	MURTRIE DAVID	41.07278	-76.37250	200	OPEN HOLE	8	0	DOMESTIC
92715	9/1/1979	WILLIAMS J	41.09028	-76.41528	125	OPEN HOLE	7	20	DOMESTIC
92716	6/1/1982	LITTLE G	41.04111	-76.42611	41	OPEN HOLE	8	0	DOMESTIC
92717	11/11/1982	LEMONS E	41.06222	-76.42278	300	OPEN HOLE	2	0	DOMESTIC
92718	8/1/1981	WELCH M	41.08833	-76.40833	42	OPEN HOLE	15	12	DOMESTIC
92719	5/6/1980	BOWMAN J	41.08972	-76.40889	103	OPEN HOLE	12	4	DOMESTIC
92720	9/1/1981	EDWARDS S	41.10944	-76.38444	298	OPEN HOLE	8	0	DOMESTIC
92721	4/21/1980	POTTER L	41.07028	-76.42694	175		16	0	DOMESTIC
92722	11/30/1984	TRAVELPIECE G	41.05806	-76.38722	225	OPEN HOLE	30	0	DOMESTIC
92724	1/1/1967	SORDONI CONSTRU	41.09583	-76.38583	28	OPEN HOLE	30	6	DOMESTIC
92725		CANNON LETHA	41.05389	-76.42444	175	OPEN HOLE	0	0	DOMESTIC
92726	1/1/1967	BROWN CALVIN	41.11444	-76.41944	51	OPEN HOLE	21	12	DOMESTIC
92727	1/1/1968	CLEAVER FRED JR	41.10361	-76.37639	47	OPEN HOLE	20	18	DOMESTIC
92728	1/1/1974	BLOSSOM DONALD	41.05278	-76.40750	150	OPEN HOLE	0	0	DOMESTIC
92729	1/1/1974	DILTZ	41.09750	-76.44083	375	OPEN HOLE	4	0	DOMESTIC
92730	5/1/1984	MEADE B	41.22500	-76.54889	135	OPEN HOLE	8	0	DOMESTIC
92731	8/1/1983	BROWN H	41.16750	-76.54500	198	OPEN HOLE	5	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92732	7/1/1980	CAIN D	41.18889	-76.50694	200	OPEN HOLE	5	50	DOMESTIC
92733	11/18/1980	ADAMS L	41.16889	-76.56417	173	OPEN HOLE	15	0	DOMESTIC
92734	1/10/1976	JENSON K	41.18194	-76.53722	240		10	0	
92735	3/8/1976	GARNER L	41.14417	-76.53389	170		10	0	
92736	1/1/1987	REIGLE G	41.17250	-76.55361	200	SCREEN	6	0	INDUSTRIAL
92737	1/1/1987	REIGLE G	41.17250	-76.55333	175	SCREEN	0	0	INDUSTRIAL
92738	3/1/1987	REIGLE G	41.17250	-76.55306	81	SCREEN	0	0	INDUSTRIAL
92739	3/1/1987	REIGLE G	41.17250	-76.55278	63	SCREEN	0	0	INDUSTRIAL
92740	3/1/1987	REIGLE G	41.17250	-76.55250	150	SCREEN	0	0	INDUSTRIAL
92741	3/1/1987	REIGLE G	41.17250	-76.55222	54	SCREEN	0	0	INDUSTRIAL
92742	1/1/1987	REIGLE G	41.17250	-76.55194	125	OPEN HOLE	0	0	INDUSTRIAL
92743	1/1/1987	REIGLE G	41.17250	-76.55167	125	OPEN HOLE	0	0	INDUSTRIAL
92744	1/1/1987	REIGLE G	41.17250	-76.55139	200	OPEN HOLE	0	0	INDUSTRIAL
92745	1/1/1987	REIGLE G	41.17250	-76.55111	200	OPEN HOLE	0	0	INDUSTRIAL
92746	1/1/1987	REIGLE G	41.17250	-76.55056	200	OPEN HOLE	0	0	INDUSTRIAL
92747	1/1/1987	REIGLE G	41.17250	-76.55028	143	OPEN HOLE	1	0	INDUSTRIAL
92748	1/1/1987	REIGLE G	41.17250	-76.55000	200	OPEN HOLE	0	0	INDUSTRIAL
92749	1/1/1987	REIGLE G	41.17250	-76.54417	125	OPEN HOLE	0	0	INDUSTRIAL
92750	1/1/1987	REIGLE G	41.17250	-76.54944	200	OPEN HOLE	0	0	INDUSTRIAL
92751	1/1/1987	REIGLE G	41.17250	-76.54917	200	OPEN HOLE	0	0	INDUSTRIAL
92752	1/1/1987	REIGLE G	41.17250	-76.54889	155	OPEN HOLE	0	0	INDUSTRIAL
92753	1/1/1987	REIGLE G	41.17250	-76.54861	200	OPEN HOLE	0	0	INDUSTRIAL
92754	1/1/1987	REIGLE G	41.17250	-76.54833	135	OPEN HOLE	2	0	INDUSTRIAL
92755	1/1/1987	REIGLE G	41.17250	-76.55083	200	OPEN HOLE	0	0	INDUSTRIAL
92757	1/1/1967	NERQUEST HERMAN	41.12778	-76.54444	175	OPEN HOLE	2	45	DOMESTIC
92758	1/1/1966	RYDER S T	41.17583	-76.56611	53	OPEN HOLE	6	15	DOMESTIC
92759	1/1/1966	BLASS D	41.16667	-76.56944	395	OPEN HOLE	18	60	DOMESTIC
92760	1/1/1966	PINE SUMMIT CHU	41.10278	-76.54083	155	OPEN HOLE	2	60	DOMESTIC
92761	6/24/1976	KREISHER H	40.89389	-76.38806	100		5	18	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92763	1/1/1968	MINNICH RAY	40.89917	-76.34500	54	OPEN HOLE	20	0	DOMESTIC
92764	11/18/1985	HOFFMAN	41.01417	-76.43500	400	OPEN HOLE	20	0	DOMESTIC
92765	11/1/1981	SCERBO J	41.02389	-76.42694	198	OPEN HOLE	15	0	DOMESTIC
92766	3/16/1979	WHITMEYER R	41.03278	-76.42806	400		60	0	
92767	6/1/1981	M M INC	41.01417	-76.41778	73	OPEN HOLE	20	0	INDUSTRIAL
92768	3/1/1981	MUSSER E	41.03917	-76.42278	120	OPEN HOLE	6	47	DOMESTIC
92769	5/1/1984	BLBG ALLIANCE CHURCH	41.03944	-76.41972	248	OPEN HOLE	6	0	DOMESTIC
92772	1/1/1967	EVERT INC S H	41.00750	-76.42778	55	OPEN HOLE	60	1	DOMESTIC
92773	1/1/1967	EVERT S H INC	41.00722	-76.42917	58	OPEN HOLE	15	4	DOMESTIC
92774	1/1/1967	MOYER JOHN	41.00917	-76.41167	84	OPEN HOLE	5	10	DOMESTIC
92775	1/1/1967	HARTZEL EARL	41.00806	-76.41111	45	OPEN HOLE	24	15	DOMESTIC
92776	1/1/1967	HOUGH HAROLD	41.01583	-76.38861	117	OPEN HOLE	7	18	DOMESTIC
92777	1/1/1967	MALINERO FRANK	41.03056	-76.42222	395	OPEN HOLE	7	127	DOMESTIC
92778	1/1/1968	MAGEE MRS JAMES	41.02667	-76.42222	73	OPEN HOLE	20	55	DOMESTIC
92779	1/1/1966	SHUMAN SR J	41.02611	-76.42083	175	OPEN HOLE	8	60	DOMESTIC
92780	1/1/1966	LEVAN W S	41.01472	-76.40667	60	OPEN HOLE	20	12	DOMESTIC
92781	1/1/1966	LEVAN W S	41.01417	-76.40667	95	OPEN HOLE	5	40	DOMESTIC
92782	1/1/1967	DOUBLESTEIN L	41.02556	-76.42000	280	OPEN HOLE	8	60	DOMESTIC
92783	1/1/1968	HUTCHISON S DUY	41.02917	-76.42361	186	OPEN HOLE	12	75	DOMESTIC
92784	1/1/1968	ROEGNER W	41.03167	-76.42861	44	OPEN HOLE	20	7	DOMESTIC
92785	1/1/1968	SNYDER JR J A	41.03417	-76.41833	175	OPEN HOLE	10	0	DOMESTIC
92786	1/1/1975	HAWK ROBERT	41.04250	-76.41528	125	OPEN HOLE	8	0	DOMESTIC
92787	1/1/1973	THOMAS DONALD	41.03444	-76.42333	151	OPEN HOLE	14	0	DOMESTIC
92788	1/1/1972	KNOUSE LEROY	41.01917	-76.43167	105	OPEN HOLE	7	0	DOMESTIC
92789	1/1/1974	HELLER ELWOOD	41.01056	-76.39778	125	OPEN HOLE	7	0	DOMESTIC
92790	6/19/1984	WOLFINGER HOMES	41.00611	-76.41167	125	OPEN HOLE	10	0	DOMESTIC
92791	9/1/1982	DAWSON J	41.03694	-76.49139	173	OPEN HOLE	10	0	DOMESTIC
92792	5/20/1982	CHAPPELL M	41.02500	-76.34361	175	OPEN HOLE	6	0	DOMESTIC
92793	4/10/1985	STEPHENS W	41.02861	-76.34917	125	OPEN HOLE	15	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
92794	8/8/1985	SEIPLE T	41.01167	-76.41306	125	OPEN HOLE	20	0	PUBLIC SUPPLY
92795	9/1/1983	MARINO CONSTRUCTION	41.01194	-76.41611	100	OPEN HOLE	30	0	
92796	6/1/1981	LIME RIDGE FIRE CO.	41.02722	-76.34250	98	OPEN HOLE	30	0	INSTITUTIONAL
92797	7/1/1980	MARIANO M	41.03028	-76.34306	123	OPEN HOLE	30	0	INDUSTRIAL
92798	11/29/1980	CAR MAR	41.02944	-76.34028	123	OPEN HOLE	30	28	INDUSTRIAL
92799	10/1/1980	MICHAELS J	41.03972	-76.38806	148	OPEN HOLE	6	0	DOMESTIC
92800	10/6/1980	US GEOLOGICAL SURVEY	41.02000	-76.37917	125		25	24	
92801	5/29/1980	YORTY T	41.02139	-76.35389	175		9	0	DOMESTIC
92802	1/1/1967	UNGER CARL	41.02583	-76.34167	61	OPEN HOLE	6	20	DOMESTIC
92803	1/1/1966	YOUNG GERALD B	41.02639	-76.33750	63	OPEN HOLE	3	15	DOMESTIC
92804	1/1/1967	BLOOMSBURG WATE	41.01639	-76.37861	500	OPEN HOLE	60	28	DOMESTIC
92805	1/1/1967	VOC-TECH SCHOOL	41.02917	-76.36444	155	OPEN HOLE	40	68	DOMESTIC
92806	1/1/1968	H L H PRODUCTS	41.02722	-76.35528	500	OPEN HOLE	218	25	DOMESTIC
92807	1/1/1966	NEYHART ROBERT	41.03750	-76.36917	215	OPEN HOLE	15	50	DOMESTIC
92808	1/1/1966	HOLDREN ROBERT	41.02417	-76.37333	95	OPEN HOLE	12	1	DOMESTIC
92809	1/1/1966	DICK EQUIPMENT	41.02667	-76.37222	95	OPEN HOLE	40	0	DOMESTIC
92810	1/1/1966	BOYER CHARLES	41.04139	-76.34778	415	OPEN HOLE	8	80	DOMESTIC
92811	1/1/1970	HERCULES INC	41.02833	-76.34667	300	OPEN HOLE	155	34	INDUSTRIAL
92812	7/1/1983	BROWN C	41.27778	-76.38250	198	OPEN HOLE	8	0	DOMESTIC
92813	1/1/1967	HOLT SAMUEL T	41.30278	-76.39861	68	OPEN HOLE	4	18	DOMESTIC
92814	1/1/1967	MYERS J	41.29917	-76.39722	72	OPEN HOLE	8	8	DOMESTIC
92815	1/1/1967	STAUFFER ROBERT	41.27361	-76.34861	81	OPEN HOLE	45	7	DOMESTIC
92816	1/1/1968	PUTERBAUGH CARL	41.27361	-76.34861	79	OPEN HOLE	15	23	DOMESTIC
127936	8/1/1988	LAGANA JIM	40.97361	-76.01833	530	OPEN HOLE	50	0	DOMESTIC
127937	6/1/1987	ABALETTA	40.93583	-75.97333	500	OPEN HOLE	100	0	INDUSTRIAL
127938	12/1/1984	SHARET WOOD PDS	40.93778	-75.98278	140	OPEN HOLE	10	25	INDUSTRIAL
127943	1/1/1966	BAKER THOMAS	40.94667	-75.96278	100	OPEN HOLE	9	38	DOMESTIC
127944	1/1/1966	DEMOTT LARRY	40.93861	-75.99083	223	OPEN HOLE	16	40	DOMESTIC
127945	1/1/1970	DUBROWSKY MIKE	40.94583	-75.97083	144	OPEN HOLE	15	60	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
127946	1/1/1968	YACONATZ D	40.96917	-75.97750	198	OPEN HOLE	11	100	DOMESTIC
127947	4/4/1976	IWANOSKI TOM	41.33389	-75.87833	200		6	0	DOMESTIC
127948	2/2/1975	MULLEN MARTY	41.32611	-75.89722	200		6	30	DOMESTIC
127949	5/26/1982	KACHMAR A	41.31722	-75.93611	175	OPEN HOLE	8	0	DOMESTIC
127950	5/28/1982	KROGULSKI J	41.31667	-75.93556	165	OPEN HOLE	9	0	DOMESTIC
127951	6/3/1982	WILLIAMS E	41.32444	-75.93444	300	OPEN HOLE	9	0	DOMESTIC
127952	6/8/1982	GOMBA J	41.31722	-75.93444	225	OPEN HOLE	10	0	DOMESTIC
127953	12/1/1988	KLUBICK	41.30750	-75.91333	200	OPEN HOLE	12	30	DOMESTIC
127954	4/1/1989	HEFFERNAN HARP	41.32111	-75.94750	275	OPEN HOLE	12	40	DOMESTIC
127955	12/1/1987	SHETER CRAFT	41.30722	-75.91306	600	OPEN HOLE	8	0	DOMESTIC
127956	8/1/1988	SALAVANTIS	41.32556	-75.91722	300	OPEN HOLE	15	40	DOMESTIC
127957	11/1/1988	DOMBROSKI M	41.32528	-75.91833	350	OPEN HOLE	10	35	DOMESTIC
127958	8/1/1988		41.32111	-75.91583	350	OPEN HOLE	40	35	PUBLIC SUPPLY
127959	9/1/1988	JACKSON TED	41.33667	-75.91889	250	OPEN HOLE	10	0	DOMESTIC
127960	9/1/1988	DOMBROSKIE M	41.32556	-75.91778	350	OPEN HOLE	12	35	DOMESTIC
127961	9/1/1988	CHAMBERLIN	41.31056	-75.93528	725	OPEN HOLE	1	0	DOMESTIC
127962	1/1/1989	DOMBROSKI	41.32389	-75.91944	375	OPEN HOLE	12	45	DOMESTIC
127963	3/1/1989	TAMAMIN AL	41.15889	-75.91028	275		150	0	DOMESTIC
127964	1/1/1988	MONAGHON G	41.35528	-75.88694	275	OPEN HOLE	7	40	DOMESTIC
127965	10/1/1987	URBON	41.33417	-75.92028	420	OPEN HOLE	3	0	DOMESTIC
127966	3/1/1988	COVERT	41.31528	-75.94111	150	OPEN HOLE	30	0	DOMESTIC
127967	4/1/1988		41.32500	-75.91806	300	OPEN HOLE	4	30	DOMESTIC
127968	6/23/1983	HARDISKY JOE	41.33194	-75.91417	435	OPEN HOLE	6	275	DOMESTIC
127969	7/1/1986	TRANCHETTI	41.34556	-75.86167	275	OPEN HOLE	7	25	DOMESTIC
127970	6/1/1987	NULTON	41.33750	-75.99861	275	OPEN HOLE	10	0	DOMESTIC
127971	1/1/1988	ROSS MATT	41.33278	-75.91361	400	OPEN HOLE	2	50	DOMESTIC
127977	1/1/1971	TROUP FUND INC	41.32194	-75.94806	335	OPEN HOLE	20	0	DOMESTIC
127978	1/1/1971	TROUP FUND INC	41.32194	-75.94806	285	OPEN HOLE	30	0	DOMESTIC
127979	1/1/1971	TROUP FUND INC	41.32194	-75.94806	435	OPEN HOLE	20	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
127980	1/1/1973	NEWBERRY EST	41.32750	-75.95472	450	OPEN HOLE	50	120	DOMESTIC
127981	1/1/1973	NEWBERRY EST	41.32750	-75.95472	462	OPEN HOLE	70	125	DOMESTIC
127984	5/1/1987	ROBERTS FRED	41.27306	-75.95389	415	OPEN HOLE	60	0	DOMESTIC
127985	3/1/1987	BULLARO	41.36667	-76.03694	175	OPEN HOLE	15	25	DOMESTIC
127986	10/1/1985	BERRATINI	41.37278	-76.05000	275	OPEN HOLE	12	275	DOMESTIC
127987	11/1/1987	KORSHAILA	41.37500	-76.04333	300	OPEN HOLE	15	0	DOMESTIC
127988	7/18/1983	SUSCAVAGE PETER	41.37139	-76.05250	245	OPEN HOLE	7	115	DOMESTIC
127989	10/14/1987	BARBER BILL	41.36556	-76.06583	285	OPEN HOLE	9	0	DOMESTIC
127990	12/1/1988	STRUTKO	41.36889	-76.03722	200	OPEN HOLE	12	25	DOMESTIC
127991	9/1/1988	PA FISH COMMISSION	41.35556	-76.05861	150	OPEN HOLE	50	4	PUBLIC SUPPLY
127992	5/1/1988	ROYER GARY	41.36722	-76.07000	410	OPEN HOLE	2	20	DOMESTIC
127998	7/1/1976	GRABKE DOLORES	41.18944	-75.72000	250		10	0	DOMESTIC
128001	12/1/1983	ST ELIZABETH CHURCH	41.17972	-75.76167	450	OPEN HOLE	15	0	DOMESTIC
128002	8/1/1979	MULLAY F	41.19667	-75.81222	200	OPEN HOLE	30	8	DOMESTIC
128003	9/27/1975	GAQSHO JOSEPH REV	41.20139	-75.78917	300		12	109	DOMESTIC
128004	10/28/1975	MOYER PEARL	41.19444	-75.78722	300		10	73	DOMESTIC
128005	10/30/1975	FITZMAURICE JOHN	41.09944	-75.76000	381		100	54	DOMESTIC
128006	3/1/1978	HENNING H	41.09889	-75.76000	400	OPEN HOLE	45	80	DOMESTIC
128007	9/1/1987	TEAGLEY	41.17639	-75.75000	200	OPEN HOLE	10	0	DOMESTIC
128010	6/1/1988	SEBASTIAN ENOS	41.20250	-75.83083	250	OPEN HOLE	10	25	DOMESTIC
128011	4/1/1987	SHILABEER JOHN	41.22944	-75.80083	150	OPEN HOLE	15	50	DOMESTIC
128017		ALLEN B	41.20222	-75.83000	250	OPEN HOLE	10	250	DOMESTIC
128018	8/1/1987	WKRZ FM	41.19667	-75.81806	500	OPEN HOLE	5	0	DOMESTIC
128019	7/1/1988	FAWN SEASON	41.22944	-75.73389	400		22	0	DOMESTIC
128020	6/1/1985	HOSEY J	41.10722	-75.76778	180	OPEN HOLE	20	15	DOMESTIC
128032	1/1/1969	CYBUL CONTR	41.19222	-75.78194	210	OPEN HOLE	28	56	DOMESTIC
128033	1/1/1969	SCHRADER CONTR	41.19306	-75.78306	168	OPEN HOLE	28	34	DOMESTIC
128034	1/1/1970	SCHULTZ KURT	41.19944	-75.79028	216	OPEN HOLE	20	102	DOMESTIC
128035	1/1/1970	PETLOCK ELMER	41.19472	-75.80389	151	OPEN HOLE	40	30	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128036	1/1/1970	STEGMILLER CONT	41.19417	-75.81000	130	OPEN HOLE	35	13	DOMESTIC
128037	1/1/1970	NORTHRUP CONTR	41.19444	-75.80556	140	OPEN HOLE	40	25	DOMESTIC
128038	1/1/1969	WILLIAMS FRED	41.19417	-75.79056	166	OPEN HOLE	20	50	DOMESTIC
128039	1/1/1969	AYERS STANLEY	41.19583	-75.79139	155	OPEN HOLE	20	78	DOMESTIC
128040	1/1/1969	JONES LEE	41.19389	-75.78472	131	OPEN HOLE	20	36	DOMESTIC
128041	1/1/1967	KOBZIEWICZ S	41.19750	-75.79028	200	OPEN HOLE	18	118	DOMESTIC
128042	1/1/1968	WHARTON	41.19333	-75.78306	164	OPEN HOLE	25	42	DOMESTIC
128043	1/1/1968	ACKERMAN	41.19833	-75.79028	199	OPEN HOLE	18	117	DOMESTIC
128044	1/1/1967	BEHRENS HENRY	41.19361	-75.78361	150	OPEN HOLE	30	48	DOMESTIC
128045	1/1/1967	ELIAS MIKE	41.19417	-75.81056	101	OPEN HOLE	35	8	DOMESTIC
128046	1/1/1967	HARVEY JIM	41.17611	-75.75472	69	OPEN HOLE	40	6	DOMESTIC
128047	1/1/1969	BENKOSKI	41.20111	-75.78972	204	OPEN HOLE	20	106	DOMESTIC
128048	1/1/1968	LUTHERAN CAMP	41.20778	-75.75167	196	OPEN HOLE	30	6	DOMESTIC
128049	1/1/1968	PETRUSKI JOHN	41.25278	-75.77250	190		30	20	DOMESTIC
128051	1/1/1968	DANDELL DAN	41.19417	-75.76722	130	OPEN HOLE	35	14	DOMESTIC
128053	9/1/1982	GENNARO C	40.94556	-76.14500	180	OPEN HOLE	25	40	DOMESTIC
128054	12/1/1982	VANBLARGEN L	40.97278	-76.18583	140	OPEN HOLE	25	60	DOMESTIC
128055	12/16/1988	BROSIOUS M	41.00667	-76.16750	150	OPEN HOLE	15	0	DOMESTIC
128056	2/10/1988	LAROCK G	40.98583	-76.15583	360	OPEN HOLE	8	0	DOMESTIC
128057	10/1/1986	VALLEY ELEM	40.97889	-76.16583	810	OPEN HOLE	15	0	PUBLIC SUPPLY
128058	8/1/1986	ENAMA B	40.94000	-76.16833	160	OPEN HOLE	15	22	DOMESTIC
128064	1/1/1968	URBAN JOSEPH	40.94194	-76.14222	165	OPEN HOLE	10	71	DOMESTIC
128065	1/1/1969	GALLAGHER WM	40.94111	-76.14389	189	OPEN HOLE	6	100	DOMESTIC
128066	1/1/1969	HUTTON JOHN	40.93972	-76.14222	83	OPEN HOLE	12	15	DOMESTIC
128067	1/1/1969	HOFFMAN ARTHUR	40.94083	-76.13972	113	OPEN HOLE	10	52	DOMESTIC
128068	1/1/1969	ZAVOLINE FRANK	40.98528	-76.03889	234	OPEN HOLE	32	120	DOMESTIC
128069	1/1/1970	LANDIS DAVE	40.98833	-76.03944	128	OPEN HOLE	5	40	DOMESTIC
128070		JUREWICZ CHAS A	41.00250	-76.14306	200	OPEN HOLE	20	50	DOMESTIC
128071		BELOSKO STEVE G	40.98333	-76.15111	125	OPEN HOLE	25	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128084	4/1/1983	LYDICK D	41.02889	-76.00750	240	OPEN HOLE	20	40	DOMESTIC
128085	6/1/1983	WELSH D	41.01861	-76.00667	240	OPEN HOLE	0	0	DOMESTIC
128086	7/1/1983	HAUSMAN C	41.01556	-76.00389	160	OPEN HOLE	20	50	DOMESTIC
128087	10/1/1981	WILLIAMS H	41.02889	-76.00611	180	OPEN HOLE	25	25	DOMESTIC
128088	10/1/1981	HERITAGE GARDENS	41.02778	-76.00500	240	OPEN HOLE	25	30	DOMESTIC
128089	8/1/1982	SNYDER C	41.01833	-76.01083	200	OPEN HOLE	20	40	DOMESTIC
128090	9/1/1982	LUCHI M	41.04556	-76.03722	300	OPEN HOLE	20	40	DOMESTIC
128091	10/1/1981	SHARP J & WAGNER A	41.02833	-76.00667	180	OPEN HOLE	20	80	DOMESTIC
128092	11/1/1981	BRIGHTHAUPT C	41.02917	-76.02278	220	OPEN HOLE	25	60	DOMESTIC
128093	3/1/1982	LUCHI M	41.04583	-76.03056	515	OPEN HOLE	20	25	DOMESTIC
128094	3/1/1982	BENJAMIN H	41.01778	-76.01083	200	OPEN HOLE	20	50	DOMESTIC
128095	6/1/1982	LUCHI BUILDERS	41.04306	-76.04167	300	OPEN HOLE	25	85	DOMESTIC
128096	10/1/1980	JACKSON S	41.01333	-76.00056	320	OPEN HOLE	0	80	DOMESTIC
128097	10/1/1980	HAENTJENS R	41.01556	-76.00167	220	OPEN HOLE	25	40	DOMESTIC
128098	7/1/1979	REIFENBERG H	41.02778	-76.00722	140	OPEN HOLE	25	40	DOMESTIC
128099	3/1/1981	LUCHI BUILDERS	41.05000	-76.02333	498	OPEN HOLE	15	200	DOMESTIC
128100	3/1/1981	BENJAMIN H	41.02278	-76.01389	200	OPEN HOLE	20	50	DOMESTIC
128101	8/20/1981	BENJAMIN H	41.02167	-76.01389	473	OPEN HOLE	25	60	DOMESTIC
128102	4/1/1978	JONES D	41.04444	-76.03556	400	OPEN HOLE	80	0	DOMESTIC
128103	4/1/1978	TERRY	41.03750	-76.03889	200	OPEN HOLE	25	50	DOMESTIC
128104	5/1/1978	MORRISON R	41.02444	-76.03556	120	OPEN HOLE	30	15	DOMESTIC
128105	5/1/1978	VALLEY VIEW BUILDERS	41.00611	-76.02722	240	OPEN HOLE	20	80	DOMESTIC
128106	6/1/1978	VALLEY VIEW BUILDERS	41.00611	-76.02667	200	OPEN HOLE	25	50	DOMESTIC
128107	12/1/1978	FARMER G	41.01611	-76.00444	180	OPEN HOLE	25	25	DOMESTIC
128108	12/1/1978	MORRISON R	41.04167	-76.04639	260	OPEN HOLE	25	30	DOMESTIC
128109	9/1/1978	KIRSCHNER A	41.02778	-76.02278	180	OPEN HOLE	25	40	DOMESTIC
128110	7/1/1978	ECKROTE R	41.03750	-76.04889	200	OPEN HOLE	25	20	DOMESTIC
128111	9/1/1977	KARDOWICH WILLIAM A	41.00222	-76.03389	200	OPEN HOLE	25	40	DOMESTIC
128112	2/1/1978	BRIGHTHAUPT R	41.00361	-76.02833	260	OPEN HOLE	30	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128113	5/18/1974	SYDLO THOMAS	41.00111	-76.03500	170	OPEN HOLE	0	40	DOMESTIC
128114	12/8/1972	SYDLO THOMAS	41.00556	-76.02556	200	OPEN HOLE	18	50	DOMESTIC
128115	11/3/1974	MARCHETTI ROBERT	41.02500	-76.00944	95	OPEN HOLE	20	20	DOMESTIC
128116	8/28/1975	STROGENICK LEE	41.02944	-76.02444	215	OPEN HOLE	40	0	DOMESTIC
128117	8/26/1975	SYDLO THOMAS	41.01056	-76.01333	140	OPEN HOLE	20	20	DOMESTIC
128118	7/22/1975	SYDLO THOMAS	41.01056	-76.01500	155		22	30	DOMESTIC
128119	7/15/1975	SYDLO THOMAS	41.01056	-76.01528	230		25	25	DOMESTIC
128120	4/9/1975	SYDLO THOMAS	41.02528	-76.00472	125	OPEN HOLE	25	20	DOMESTIC
128121	4/1/1977	MEDNITSKY HY	41.01556	-76.00278	140	OPEN HOLE	25	18	DOMESTIC
128122	3/1/1977	SOTACK JOSEPH	41.03000	-76.00500	160	OPEN HOLE	10	0	DOMESTIC
128123	6/21/1976	HUBBARD JAMES	41.02556	-76.03444	155	OPEN HOLE	25	25	DOMESTIC
128124	5/14/1976	LABUZ JAMES	41.04111	-76.04000	275	OPEN HOLE	6	25	DOMESTIC
128125	4/12/1977	COLLINS WILLIAM	41.00611	-76.02444	360	OPEN HOLE	25	45	DOMESTIC
128126	10/27/1975	SCHELL BARRY	41.02667	-76.01333	165	OPEN HOLE	15	45	DOMESTIC
128127	10/8/1975	FETTER JOHN J JR	41.02722	-76.00611	170	OPEN HOLE	25	40	DOMESTIC
128128	7/11/1975	BOND GENNARO MD	41.00111	-76.03417	215	OPEN HOLE	25	30	DOMESTIC
128129	10/21/1975	MARSILO ROBERT	41.02556	-76.00611	110	OPEN HOLE	18	20	DOMESTIC
128130	6/1/1978	GEISLER I	41.01722	-76.03000	673	OPEN HOLE	20	60	DOMESTIC
128131	12/1/1980	BALLIET C	41.02889	-76.00278	380	OPEN HOLE	25	100	DOMESTIC
128132	10/1/1980	MONKOSKI J	41.00778	-76.02056	200	OPEN HOLE	25	50	DOMESTIC
128133	4/1/1979	ENERGY CONSERVATION	41.04611	-75.95889	180	OPEN HOLE	30	40	DOMESTIC
128134	6/1/1983	ELICK J	41.01722	-75.94028	160	OPEN HOLE	20	30	DOMESTIC
128135	7/1/1982	CASOLE E	41.02000	-75.93833	320	OPEN HOLE	25	30	DOMESTIC
128136	7/1/1982	ZELENAK J	41.03056	-75.98861	280	OPEN HOLE	25	75	DOMESTIC
128137	8/1/1982	DEPOALO M	41.02722	-75.99278	300	OPEN HOLE	30	30	DOMESTIC
128138	8/1/1982	VALLEY HOTEL	41.02222	-75.96389	200	OPEN HOLE	20	40	DOMESTIC
128139	11/1/1982	TATE F	41.01500	-75.94389	160	OPEN HOLE	25	25	DOMESTIC
128140	9/1/1982	BLANAR G	41.01667	-75.94611	320	OPEN HOLE	20	40	DOMESTIC
128141	6/1/1982	GROSSMAN P	41.04167	-75.96444	200	OPEN HOLE	20	50	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128142	10/1/1981	LEWIS C	41.01333	-75.94611	270	OPEN HOLE	25	60	DOMESTIC
128143	8/1/1980	DIETRICH K	41.01083	-75.95444	300	OPEN HOLE	25	40	DOMESTIC
128144	3/1/1981	DELESE C	41.01833	-75.93444	200	OPEN HOLE	30	0	DOMESTIC
128145	12/1/1980	BROSIOUS F	41.01444	-75.94944	250	OPEN HOLE	5	40	DOMESTIC
128146	11/1/1980	ROBINSON A	41.03000	-75.98333	160	OPEN HOLE	25	20	DOMESTIC
128147	8/1/1980	SLACK D	41.01583	-75.99556	200	OPEN HOLE	25	30	DOMESTIC
128148	5/1/1980	GIOVANNI ASSOCIATES	41.01333	-75.98972	200	OPEN HOLE	25	35	DOMESTIC
128149	9/1/1981	BARNA M	41.02000	-75.91667	260	OPEN HOLE	30	20	DOMESTIC
128150	10/1/1981	DEANGELO E	41.02917	-75.99944	140	OPEN HOLE	25	35	DOMESTIC
128151	9/1/1981	MARTINI A	41.02083	-75.97444	340	OPEN HOLE	20	100	DOMESTIC
128152	5/1/1981	RUMBLE R	41.03889	-75.99667	160	OPEN HOLE	30	4	DOMESTIC
128153	8/1/1978	KARPOWICH W	41.01111	-75.91333	140	OPEN HOLE	25	30	DOMESTIC
128154	8/1/1978	STELMACK T	41.01889	-75.92750	220	OPEN HOLE	25	30	DOMESTIC
128155	4/1/1978	BARAN B	41.01056	-75.91500	200	OPEN HOLE	25	20	DOMESTIC
128156	10/1/1979	MARCHETTI R	41.04889	-75.99917	180	OPEN HOLE	25	40	DOMESTIC
128157	10/1/1981	ECKROTE C	41.01944	-75.93667	160	OPEN HOLE	25	30	DOMESTIC
128158	6/1/1979	GIOVANNI ASSOCIATES	41.01444	-75.99083	140	OPEN HOLE	30	20	DOMESTIC
128159	9/1/1979	GIOVANNI ASSOCIATES	41.01444	-75.99111	160	OPEN HOLE	30	40	DOMESTIC
128160	7/1/1979	ROBIN HOMES	41.02000	-75.93389	280	OPEN HOLE	25	30	DOMESTIC
128161	12/1/1979	GIOVANNI ASSOCIATES	41.01444	-75.99139	140	OPEN HOLE	20	40	DOMESTIC
128162	7/1/1979	ROBIN HOMES	41.02056	-75.93500	280	OPEN HOLE	30	50	DOMESTIC
128163	5/1/1980	GIOVANNI ASSOCIATES	41.01444	-75.99000	200	OPEN HOLE	25	40	DOMESTIC
128164	10/1/1980	BUTLER VALLEY MANOR	41.04889	-75.95722	668	OPEN HOLE	25	100	DOMESTIC
128165	1/1/1980	GIOVANNI ASSOCIATES	41.01444	-75.99056	160	OPEN HOLE	25	30	DOMESTIC
128166	1/1/1981	BALLIET B	41.01944	-75.96056	360	OPEN HOLE	20	45	DOMESTIC
128167	11/1/1980	WEEKS W	41.04417	-75.99944	463	OPEN HOLE	20	50	DOMESTIC
128168	4/1/1979	GIOVANNI ASSOCIATES	41.01444	-75.99028	160	OPEN HOLE	25	30	DOMESTIC
128169	11/1/1978	OSSISS J	41.03222	-75.98722	225	OPEN HOLE	6	40	DOMESTIC
128170	6/7/1979	EDGEWOOD PINES GOLF	41.03778	-75.95833	200	OPEN HOLE	30	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128171	5/1/1979	PREISSOCK	41.01167	-75.91556	175	OPEN HOLE	73	2	DOMESTIC
128172	12/1/1977	KECK D	41.00306	-75.99833	180	OPEN HOLE	25	0	DOMESTIC
128173	10/1/1977	DRASHER L	41.02694	-75.96111	585	OPEN HOLE	35	80	DOMESTIC
128174	3/1/1978	MASO AND SONS	41.02250	-75.90500	240	OPEN HOLE	25	0	DOMESTIC
128175	10/1/1977	NOVAK V	41.01722	-75.99389	260	OPEN HOLE	25	60	DOMESTIC
128176	4/1/1978	MASO AND SONS	41.02111	-75.91444	200	OPEN HOLE	20	40	DOMESTIC
128177	4/1/1978	PROUANZO E	41.01778	-75.92722	220	OPEN HOLE	22	100	DOMESTIC
128178	4/1/1978	MASO AND SONS	41.02056	-75.91917	220	OPEN HOLE	0	0	DOMESTIC
128179	3/1/1978	DESTEFANO R	41.01083	-75.96389	220	OPEN HOLE	30	40	DOMESTIC
128180	7/1/1978	KUCK ROB	41.03778	-75.97222	120	OPEN HOLE	25	20	DOMESTIC
128181	7/1/1978	ORVICK J	41.01750	-75.94611	180	OPEN HOLE	30	40	DOMESTIC
128182	8/1/1978	BEHM W JR	41.00917	-75.95889	200	OPEN HOLE	25	30	DOMESTIC
128183	7/1/1978	KOSTANESKY J	41.03861	-75.93833	220	OPEN HOLE	25	40	DOMESTIC
128184	11/1/1977	GIOVANNI ASSOCIATES	41.01667	-75.94611	180	OPEN HOLE	25	0	DOMESTIC
128185	5/11/1979	FAUST WILLIAM	41.01583	-75.95750	200	OPEN HOLE	30	15	DOMESTIC
128186	9/1/1978	MURPHY O	41.02222	-75.91528	160	OPEN HOLE	25	25	DOMESTIC
128187	3/1/1979	SACCO R	41.01667	-75.94111	260	OPEN HOLE	25	25	DOMESTIC
128188	9/1/1978	YENCHA B	41.01667	-75.92500	553	OPEN HOLE	25	20	DOMESTIC
128189	1/1/1979	POHIDA J	41.02167	-75.92222	80	OPEN HOLE	35	20	DOMESTIC
128190	12/1/1978	MARCHETT F	41.01444	-75.99944	200	OPEN HOLE	25	30	DOMESTIC
128191	12/1/1978	NOVAK R	41.00778	-75.92028	260	OPEN HOLE	25	40	DOMESTIC
128192	11/1/1978	CUNNING J	41.02222	-75.92556	200	OPEN HOLE	25	25	DOMESTIC
128193	9/1/1977	LUCHI CONSTRUCTION	41.05056	-75.95111	160	OPEN HOLE	25	25	DOMESTIC
128194	8/1/1977	GIOVANNI ASSOCIATES	41.01722	-75.94611	180	OPEN HOLE	30	0	DOMESTIC
128195	8/1/1977	GIOVANNI ASSOCIATES	41.01611	-75.94611	200	OPEN HOLE	25	0	DOMESTIC
128196	10/1/1977	MOSES A	41.01722	-75.92611	320		25	100	DOMESTIC
128197	12/1/1977	KIMMELL E	41.01861	-75.94667	320	OPEN HOLE	25	50	DOMESTIC
128198	6/11/1974	HAZLE BUILDERS	41.03611	-75.96333	110		30	0	DOMESTIC
128199	6/13/1974	MELNICK EDWARD	41.01750	-75.94722	155		30	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128200	11/21/1972	SCHAFFER THOMAS	41.01444	-75.97306	185		0	0	DOMESTIC
128201	10/26/1973	BACHER ROBERT JR	41.00056	-75.99944	200		20	25	DOMESTIC
128202	10/7/1972	PETERS ED	41.01750	-75.92778	155		18	40	DOMESTIC
128203	11/21/1972	LOFSTROM ELNA	41.02250	-75.98944	275		18	0	DOMESTIC
128204	1/15/1973	MASHER LEO	41.01833	-75.94722	275		18	40	DOMESTIC
128205	8/28/1975	POTENCE MIKE JR.	41.01000	-75.95944	110		25	20	DOMESTIC
128206	3/18/1975	ODONNELL KEVIN	41.01833	-75.99167	200		25	40	DOMESTIC
128207	3/28/1975	YOURAVITCH VINCENT	41.03778	-75.96278	140		30	0	DOMESTIC
128208	1/3/1975	SMITH HOWARD	41.03000	-75.99583	110		30	20	DOMESTIC
128209	3/31/1975	BALLIET WALTER	41.02194	-75.99556	260		22	40	DOMESTIC
128210	11/23/1974	WOODRING RIGHTER	41.03000	-75.99556	110		25	20	DOMESTIC
128211	6/3/1977	DELESE MICHAEL	41.02056	-75.92417	180		25	30	DOMESTIC
128212	5/17/1977	GALETERI SANDY	41.01500	-75.94444	140		25	20	DOMESTIC
128213	5/11/1977	CHRIS MARK HOMES	41.01667	-75.92861	200		25	25	DOMESTIC
128214	4/27/1977	LINGLE WILLIAM	41.01806	-75.93778	160		25	20	DOMESTIC
128215	3/10/1977	MASO AND SONS	41.01944	-75.91917	160		20	20	DOMESTIC
128216	2/11/1977	VACCARO JOSEPH	41.00778	-75.96333	160		20	20	DOMESTIC
128217	2/1/1977	CHRIS MARK HOMES	41.01611	-75.92917	185		20	40	DOMESTIC
128218	12/15/1976	CHRIS MARK HOMES	41.01639	-75.92889	170		25	30	DOMESTIC
128219	1/18/1977	CHRIS MARK HOMES	41.01611	-75.92861	185		25	40	DOMESTIC
128220	8/20/1976	SHEAMAN WILLIAM	41.03111	-75.98833	200		25	35	DOMESTIC
128221	8/16/1976	DINSMORE ROBERT	41.02889	-75.99444	95		25	20	DOMESTIC
128222	8/16/1976	BONOMO THOMAS	41.01833	-75.92722	230		22	40	DOMESTIC
128223	7/30/1976	BONITTLE JAMES	41.01944	-75.94722	170		20	20	DOMESTIC
128224	4/5/1976	KOLBECK JOHN	41.02083	-75.98250	200		20	40	DOMESTIC
128225	1/15/1976	SCALISE THOMAS	41.01750	-75.94611	155		35	0	DOMESTIC
128226	11/29/1975	SDIKA LEO	41.00917	-75.96278	140		25	20	DOMESTIC
128227	1/2/1976	OPIARY THOMAS	41.05833	-75.95333	170		25	30	DOMESTIC
128228	1/1/1977	YEAGLEY C E	41.07389	-75.95889	180		30	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128229	9/1/1977	SKUBA R	41.02500	-75.99083	463	OPEN HOLE	30	30	DOMESTIC
128230	10/1/1978	KEPPING H SR	41.00278	-75.99611	400	OPEN HOLE	25	50	DOMESTIC
128231	10/1/1978	MARINOCK D	41.01611	-75.99611	220	OPEN HOLE	25	0	DOMESTIC
128232	3/1/1979	KOBZA E	41.04111	-75.95667	180	OPEN HOLE	25	20	PUBLIC SUPPLY
128233	6/1/1983	MASO AND SONS	41.02056	-75.92000	140	OPEN HOLE	18	20	DOMESTIC
128234	6/1/1979	CUTRAFELLO	40.97444	-76.05056	270	OPEN HOLE	20	50	DOMESTIC
128235	6/1/1979	POZNIAK	40.97444	-76.05028	290	OPEN HOLE	15	60	DOMESTIC
128236	3/1/1989	UREMOUITCH	41.04167	-75.96333	200	OPEN HOLE	10	0	DOMESTIC
128237	1/1/1989	GOVES K	41.05750	-75.96556	220	OPEN HOLE	15	50	DOMESTIC
128238	3/1/1989	LONZINSKI	41.04028	-75.97694	95	OPEN HOLE	20	10	DOMESTIC
128239	12/1/1988	KISENWEATHER B	41.05444	-75.96111	220	OPEN HOLE	30	36	DOMESTIC
128240	1/1/1989	ENERGY TECHNOLIGIES	41.05500	-75.96028	300	OPEN HOLE	15	30	DOMESTIC
128241	10/1/1988	BILLIG B	41.01750	-75.99944	300	OPEN HOLE	25	50	DOMESTIC
128242	6/1/1988	PALKO L	41.03167	-75.98528	240	OPEN HOLE	25	60	DOMESTIC
128243	3/10/1988	LUCHI HOMES	41.04833	-76.01944	400	OPEN HOLE	2	0	DOMESTIC
128244	4/1/1988		41.01667	-75.93917	250	OPEN HOLE	5	0	DOMESTIC
128245	3/1/1988	MEDICAL TRANSPORT	41.02000	-75.99583	360	OPEN HOLE	20	35	INDUSTRIAL
128246	11/1/1987	WOOD R	41.02056	-75.93722	440	OPEN HOLE	15	80	DOMESTIC
128247	11/1/1987	BREDBENNER C	41.02417	-75.99250	260	OPEN HOLE	50	60	DOMESTIC
128248	2/1/1988	ESPOSITO J	41.02167	-75.97972	300	OPEN HOLE	20	60	DOMESTIC
128249	9/1/1987	TANCIN G	41.01778	-75.91750	360	OPEN HOLE	15	70	DOMESTIC
128250	8/1/1987	KISENWEATHER B	41.04917	-75.95750	0	OPEN HOLE	10	70	DOMESTIC
128251	7/1/1987	JAIS B	41.02056	-76.03556	200	OPEN HOLE	25	25	DOMESTIC
128252	11/1/1986	FRIENDSHIP INN	41.05750	-75.96361	300	OPEN HOLE	35	0	PUBLIC SUPPLY
128253	11/1/1986	YARASZ STANLEY	41.01778	-75.93694	300	OPEN HOLE	10	20	DOMESTIC
128254	5/1/1986	GEORGE D	41.03306	-75.96167	250	OPEN HOLE	20	25	DOMESTIC
128255	12/1/1986	ADAMCZYR A	41.03778	-76.03944	200	OPEN HOLE	15	40	DOMESTIC
128256	3/1/1987	CRAWFORD	41.01889	-75.97778	160	OPEN HOLE	20	26	DOMESTIC
128257	8/1/1986	SMITH W	41.03444	-75.97389	120	OPEN HOLE	20	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128258	7/1/1986	COOK J	41.03528	-75.97306	300	OPEN HOLE	8	60	DOMESTIC
128259	7/1/1986	EVANCHO G	41.01806	-75.99667	160	OPEN HOLE	20	20	DOMESTIC
128260	11/1/1985	MASO C	41.03083	-75.91750	220	OPEN HOLE	14	50	DOMESTIC
128261	11/1/1985	STREIT D	41.03083	-75.95083	180	OPEN HOLE	20	20	DOMESTIC
128262	8/1/1985	GLEIM E	41.03333	-76.01833	180	OPEN HOLE	150	10	DOMESTIC
128263	10/1/1985	MASU C	41.01750	-75.92028	380	OPEN HOLE	3	60	DOMESTIC
128264	10/1/1985	MISTAL D	41.00778	-75.97000	160	OPEN HOLE	15	28	DOMESTIC
128265	10/1/1985	ORBACH J	41.02444	-75.98917	82	OPEN HOLE	25	40	DOMESTIC
128266	8/1/1985	LUCHI M	41.00722	-75.96583	160	OPEN HOLE	25	15	DOMESTIC
128267	7/1/1985	MASCARD	41.03861	-76.03667	160	OPEN HOLE	12	60	DOMESTIC
128268	7/1/1985	SWIRE W	41.01222	-76.02000	160	OPEN HOLE	20	30	DOMESTIC
128269	7/1/1985	LODERHOSE J	41.00889	-76.02000	200	OPEN HOLE	20	30	DOMESTIC
128270	7/1/1985	HODA R	41.04000	-76.01667	100	OPEN HOLE	60	6	DOMESTIC
128271	11/12/1984	WEAVERS AUTO S.	41.01194	-76.04028	300	OPEN HOLE	2	0	DOMESTIC
128272	5/1/1985	CRAWFORD R	41.01806	-76.00778	300	OPEN HOLE	15	45	DOMESTIC
128273	2/1/1985	BITTENBENDER KELSHAW	41.02417	-75.99944	280	OPEN HOLE	12	40	DOMESTIC
128274	8/1/1984	LUCHI M	41.04361	-76.02111	200	OPEN HOLE	15	45	DOMESTIC
128275	12/1/1984	PAPINSICK A	41.00889	-76.05389	180	OPEN HOLE	22	50	DOMESTIC
128276	12/1/1984	POLK H	41.03472	-76.03389	280	OPEN HOLE	10	90	DOMESTIC
128277	7/1/1985	DRUMHELLER R	41.05417	-75.95583	200	OPEN HOLE	6	60	DOMESTIC
128278	4/1/1987	HALDERMAN G	41.05750	-75.96667	510	OPEN HOLE	4	80	DOMESTIC
128279	6/1/1985	GOIDA L	41.05528	-76.01972	412	OPEN HOLE	6	60	DOMESTIC
128280	5/1/1985	SCHOTT P	41.03528	-76.01333	200	OPEN HOLE	15	40	DOMESTIC
128281	5/1/1985	KALINOVICH J	41.03556	-76.01333	220	OPEN HOLE	15	40	DOMESTIC
128282	4/1/1985	DILULLO G	41.01583	-75.95750	200	OPEN HOLE	30	40	DOMESTIC
128283	12/1/1984	ALLEGRETTO T	41.01583	-75.94833	300	OPEN HOLE	10	60	DOMESTIC
128284	5/1/1984	CORTEZE J	41.01917	-75.95889	300	OPEN HOLE	20	80	DOMESTIC
128285	10/1/1984	JOSEPH M	41.03917	-75.95833	160	OPEN HOLE	15	20	DOMESTIC
128286	10/1/1984	LUCHI M	41.04278	-76.02083	280	OPEN HOLE	15	50	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128287	10/1/1984	WALP R	41.02028	-75.98722	220	OPEN HOLE	15	40	DOMESTIC
128288	7/27/1984	GOOD SHEPARD CHURCH	41.01417	-75.96667	360	OPEN HOLE	50	0	PUBLIC SUPPLY
128289	7/30/1984	GOOD SHEPARD CHURCH	41.00694	-75.96833	380	OPEN HOLE	60	50	PUBLIC SUPPLY
128290	7/28/1984	GOOD SHEPARD CHURCH	41.01472	-75.96833	360	OPEN HOLE	50	40	PUBLIC SUPPLY
128291	6/5/1984	CASPER R	41.03222	-75.98000	300	OPEN HOLE	15	100	DOMESTIC
128292	3/15/1984	WASHINSKY	41.02472	-75.97250	470	OPEN HOLE	25	80	DOMESTIC
128293	8/1/1984	BARLETTA A	41.04250	-75.95333	85	OPEN HOLE	20	10	DOMESTIC
128294	2/10/1989	CORDING DAVID	41.04889	-75.95417	0	OPEN HOLE	15	125	DOMESTIC
128295	10/1/1987	BEECH MT	41.05056	-75.94333	340	OPEN HOLE	15	25	DOMESTIC
128296	8/1/1988	DELECROSE J	41.03778	-76.01917	220	OPEN HOLE	15	40	DOMESTIC
128297	11/1/1987	CRAWFORD B	41.06583	-75.95528	200	OPEN HOLE	15	30	DOMESTIC
128298	11/1/1988		41.03278	-75.96222	275	OPEN HOLE	7	25	DOMESTIC
128336	1/1/1968	VISINTAN ADOLPH	41.00694	-75.97056	103	OPEN HOLE	9	50	DOMESTIC
128337	1/1/1968	BETTRAUIR LARRY	41.00028	-75.97194	138	OPEN HOLE	40	40	DOMESTIC
128338	1/1/1971	VISINTOINER L	41.00639	-75.97000	98	OPEN HOLE	12	16	DOMESTIC
128339	1/1/1970	STAGE COACH INN	41.05417	-75.96278	129	OPEN HOLE	32	8	DOMESTIC
128340	1/1/1970	SPERANOZA TONY	41.00250	-75.97361	113	OPEN HOLE	12	25	DOMESTIC
128341	1/1/1970	WEISINGER N	41.04778	-75.95694	113	OPEN HOLE	8	36	DOMESTIC
128342	1/1/1973	SABO CONST	41.01667	-75.94444	150	OPEN HOLE	20	50	DOMESTIC
128343	1/1/1968	KRIEGES JAMES J	41.05778	-75.95444	118	OPEN HOLE	10	30	DOMESTIC
128344	8/1/1977	LEWIS R	41.12889	-76.09083	345	OPEN HOLE	3	50	DOMESTIC
128345	7/24/1978	HERRING DOROTHY	41.13083	-76.10417	250		0	20	DOMESTIC
128346	10/1/1982	SPAIDE H	41.09333	-76.10389	160	OPEN HOLE	25	10	DOMESTIC
128347	4/1/1989	PIZIA	41.10889	-76.07444	250	OPEN HOLE	10	25	DOMESTIC
128348	3/1/1989	PIZIA	41.11000	-76.07444	240	OPEN HOLE	35	20	DOMESTIC
128349	12/1/1987	DUSKOSKY	41.11750	-76.11194	250	OPEN HOLE	6	0	DOMESTIC
128350	11/1/1985	UTILITY ENGINEERS	41.14222	-76.13111	603	OPEN HOLE	25	27	PUBLIC SUPPLY
128351	10/13/1983	PLISH C	41.13417	-76.08639	225	OPEN HOLE	10	30	PUBLIC SUPPLY
128352	9/1/1983	BECK P	41.12833	-76.12639	175	OPEN HOLE	15	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128356		FREELAND WATER	41.01750	-75.89222	203	OPEN HOLE	200	21	PUBLIC SUPPLY
128357	1/1/1967	MACANAQUA WATER	41.14194	-76.13167	307	OPEN HOLE	75	15	PUBLIC SUPPLY
128358	1/1/1966	READLER HOYT	41.14111	-76.13833	217	OPEN HOLE	3	24	DOMESTIC
128359	4/4/1974	CLEMSON JOE	41.32111	-75.95667	350		5	26	DOMESTIC
128360	10/12/1987	PADAVAN TOM	41.34917	-75.96000	265	OPEN HOLE	30	0	DOMESTIC
128361	4/14/1988	BEIER FRANK	41.34861	-75.92833	347	OPEN HOLE	5	0	DOMESTIC
128362	4/12/1988	CHINESE ED	41.34306	-75.92833	147	OPEN HOLE	30	0	DOMESTIC
128363	3/1/1987	DOMBROSKI MICHAEL	41.37194	-75.94389	175	OPEN HOLE	30	60	DOMESTIC
128364	8/20/1986	MATTIOLI PETE	41.35417	-75.93417	220	OPEN HOLE	20	120	DOMESTIC
128365	4/18/1980	SCANTE JOHN	41.32278	-75.97111	286	OPEN HOLE	15	50	DOMESTIC
128366	7/1/1988	HADDLE B	41.37722	-75.98583	225	OPEN HOLE	18	120	DOMESTIC
128367	10/1/1988	ELITCHKO W	41.34556	-75.94389	150	OPEN HOLE	20	20	DOMESTIC
128368	12/1/1988	SHEPARD DAVE	41.31944	-75.96056	400	OPEN HOLE	4	25	DOMESTIC
128385		NATONA MILLS	41.34028	-75.97833	500	OPEN HOLE	85	0	PUBLIC SUPPLY
128386		NATONA MILLS	41.34000	-75.97611	493	OPEN HOLE	0	0	PUBLIC SUPPLY
128387	1/1/1967	NEWCOMB JOS	41.33750	-75.98861	146	OPEN HOLE	20	78	DOMESTIC
128388	1/1/1967	OSTRUM WM	41.33194	-75.94333	149	OPEN HOLE	20	12	DOMESTIC
128389	1/1/1968	WENTZEL FRANCIS	41.34639	-76.01944	238	OPEN HOLE	16	87	DOMESTIC
128390	1/1/1970	NEWBERRY EST	41.32750	-75.95472	300	OPEN HOLE	30	129	DOMESTIC
128391	1/1/1966	HAYWARD J L	41.36250	-76.00361	207	OPEN HOLE	35	13	DOMESTIC
128392	11/1/1982	RAUDENBUSH R	41.06917	-75.77389	200	OPEN HOLE	30	40	DOMESTIC
128393	7/25/1977	MURPHY KARL	41.10278	-75.77944	180		30	30	DOMESTIC
128394	8/1/1977	STORTZ W	41.08944	-75.77333	180	OPEN HOLE	25	20	DOMESTIC
128395	5/1/1977	PERUCHETTI PETER	41.04278	-75.79778	140		25	30	DOMESTIC
128396	9/26/1976	JAKACKI ZIGMUND	41.08222	-75.77444	95		50	0	DOMESTIC
128397	12/1/1988	RICKERT RICK	41.09917	-75.79111	225	OPEN HOLE	12	25	DOMESTIC
128398	8/1/1988	YERMEL AL	41.08444	-75.80389	400	OPEN HOLE	3	25	DOMESTIC
128399	7/1/1988	WOODS GEORGE	41.11139	-75.77361	535	OPEN HOLE	6	45	DOMESTIC
128400	4/1/1986	YARMEY D	41.07056	-75.77417	300	OPEN HOLE	6	300	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128401	3/1/1985	JARRICK J	41.10500	-75.79528	300	OPEN HOLE	8	25	DOMESTIC
128402	6/1/1984	SHINLOCK G	41.08972	-75.81472	420	OPEN HOLE	3	30	DOMESTIC
128403	4/1/1985	YEAGER E	41.10056	-75.79028	190	OPEN HOLE	25	30	DOMESTIC
128404	7/1/1983	RICE G	41.09750	-75.79000	175	OPEN HOLE	10	40	DOMESTIC
128405	3/1/1984	WEAVER C	41.08000	-75.79222	250	OPEN HOLE	5	25	DOMESTIC
128406	7/1/1983	HASINGER J	41.09500	-75.77667	225	OPEN HOLE	8	15	DOMESTIC
128407	11/1/1983	DRENNER J	41.10278	-75.85833	200	OPEN HOLE	15	20	DOMESTIC
128408	10/1/1985	JONES A	41.10833	-75.79694	225	OPEN HOLE	12	225	DOMESTIC
128409	10/1/1986	MOZITIS J	41.11167	-75.77250	320	OPEN HOLE	20	40	DOMESTIC
128432	1/1/1968	WASILESKI AL	41.11917	-75.81083	143	OPEN HOLE	12	50	DOMESTIC
128433	11/1/1982	CARINGER L	41.09722	-75.95778	225	OPEN HOLE	12	20	DOMESTIC
128434	5/1/1982	BUCHOLZ A	41.09667	-75.94778	465	OPEN HOLE	15	50	DOMESTIC
128435	8/1/1981	BELANCHIK G	41.08667	-75.97500	200	OPEN HOLE	15	20	DOMESTIC
128436	10/1/1977	GUZIK R	41.11111	-75.95861	220	OPEN HOLE	20	30	DOMESTIC
128437	3/1/1981	MAHON J	41.09833	-75.94333	220	OPEN HOLE	25	60	DOMESTIC
128438	8/10/1978	KARINSKI JOSEPH	41.09667	-75.94500	360		4	25	DOMESTIC
128439	10/1/1979	BURKE B	41.08000	-75.99667	335	OPEN HOLE	2	25	DOMESTIC
128440	9/16/1977	J L TURNER COMPANY	41.08722	-75.96056	260		200	0	INDUSTRIAL
128441	2/1/1982	BRANDO M	41.08333	-75.99722	200	OPEN HOLE	15	40	DOMESTIC
128442	11/30/1974	EROH MARVIN	41.07278	-75.99694	175		8	22	DOMESTIC
128443	10/1/1981	EBERT L	41.06944	-76.03889	300	OPEN HOLE	1	3	DOMESTIC
128444	9/29/1978	THOMA JIM	41.09389	-76.00778	300		2	15	DOMESTIC
128445	7/1/1979	EIGENBROD B	41.09889	-76.00389	200	OPEN HOLE	10	0	DOMESTIC
128446	9/15/1978	RINEHIMER SAM	41.12500	-76.02056	90		5	30	DOMESTIC
128447	3/1/1982	FENSTERMACHER F	41.13000	-76.00944	275	OPEN HOLE	4	15	DOMESTIC
128448	11/5/1978	GIARATANO JOHN	41.13111	-75.99917	200		8	18	DOMESTIC
128449	12/1/1988	ANDRESS WARD	41.09778	-76.00750	400	OPEN HOLE	1	40	DOMESTIC
128450	2/1/1989	RICHARDSON GLENN	41.07083	-75.98861	275	OPEN HOLE	4	30	DOMESTIC
128451	2/1/1989	LAMANNA	41.07833	-76.04500	400	OPEN HOLE	2	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128452	8/1/1988	ANDRESS WARD	41.11083	-76.02111	450	OPEN HOLE	1	35	DOMESTIC
128453	2/1/1989	LEONARD LINDA	41.11389	-75.98472	225	OPEN HOLE	6	30	DOMESTIC
128454	10/1/1988	HENRY HARRY	41.11167	-75.98806	275	OPEN HOLE	25	20	DOMESTIC
128455	9/1/1988	COLE L	41.10667	-75.96444	300	OPEN HOLE	15	60	DOMESTIC
128456	10/1/1987	SAFKO RUTH	41.08667	-76.00722	250	OPEN HOLE	15	0	DOMESTIC
128457	10/1/1987	LASASKY KEN	41.11778	-76.02778	275	OPEN HOLE	5	0	DOMESTIC
128458	8/1/1987	COOPER JIM	41.11333	-75.98472	200	OPEN HOLE	10	0	DOMESTIC
128459	12/1/1987	RINEHIMER ED	41.11222	-75.98944	250	OPEN HOLE	7	0	DOMESTIC
128460	4/1/1988	ZIESKE LARRY	41.11444	-76.02806	300	OPEN HOLE	3	40	DOMESTIC
128461	9/1/1986	LUTZ ART	41.10194	-76.00639	100	OPEN HOLE	4	15	DOMESTIC
128462	12/1/1986	GENELOW	41.11833	-76.03167	250	OPEN HOLE	6	20	DOMESTIC
128463	1/1/1988	PAGAN MANNY	41.11222	-76.02250	275	OPEN HOLE	30	0	DOMESTIC
128464	1/1/1985	SMITH C	41.12694	-75.98556	405	OPEN HOLE	1	25	DOMESTIC
128465	2/1/1987	FENSTERMACHER B	41.10944	-76.01056	300	OPEN HOLE	3	0	DOMESTIC
128466	1/1/1987	PAISLEY	41.11444	-76.02083	275	OPEN HOLE	15	0	DOMESTIC
128467	2/1/1988	PAWLOWSKI BERNICE	41.08417	-75.99417	280	OPEN HOLE	20	0	DOMESTIC
128468	3/1/1988	JECKELL WAYNE	41.08167	-75.99528	250	OPEN HOLE	8	0	DOMESTIC
128469	3/1/1988	GIRLOCK	41.10611	-75.95778	225	OPEN HOLE	15	0	DOMESTIC
128470	8/1/1987	EVANCHO ANDY	41.09778	-76.00222	315	OPEN HOLE	2	0	DOMESTIC
128471	9/1/1987	KLEPACZ JOE	41.07889	-75.99389	300	OPEN HOLE	4	0	DOMESTIC
128472	4/1/1988	MAGDA MARK	41.13083	-76.00639	275	OPEN HOLE	12	40	DOMESTIC
128473	2/1/1988	CYBULSKI PAUL	41.09111	-76.00056	250	OPEN HOLE	12	0	DOMESTIC
128474	2/1/1988	KOKINDA	41.08583	-76.00722	240	OPEN HOLE	20	0	DOMESTIC
128475	2/1/1988	BIGGS	41.09889	-76.01528	450	OPEN HOLE	1	0	DOMESTIC
128476	5/1/1986	HILINSKI	41.13389	-75.97333	360	OPEN HOLE	10	30	DOMESTIC
128477	3/1/1987	ANDRESS W	41.09444	-76.00833	270	OPEN HOLE	20	30	DOMESTIC
128478	3/1/1987	EMMANUEL	41.09778	-76.00389	405	OPEN HOLE	3	40	PUBLIC SUPPLY
128479	8/1/1986	BROZOWSKI	41.10500	-75.96861	200	OPEN HOLE	20	20	DOMESTIC
128480	7/1/1986	PARKS	41.09750	-76.02083	175	OPEN HOLE	25	25	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128481	7/1/1986	BROGINSKI SIMON	41.09250	-76.00056	450	OPEN HOLE	0	50	DOMESTIC
128482	10/1/1986	REED	41.08194	-75.99917	200	OPEN HOLE	10	25	DOMESTIC
128483	9/1/1986	ANDRESS DONALD	41.10417	-76.00917	405	OPEN HOLE	2	20	DOMESTIC
128484	8/1/1986	WALTERS	41.09444	-75.96167	300	OPEN HOLE	3	30	DOMESTIC
128485	1/1/1987	WITINSKI	41.13667	-75.98556	300	OPEN HOLE	15	0	DOMESTIC
128486	2/1/1987	JONES T	41.07667	-76.02250	300	OPEN HOLE	15	0	DOMESTIC
128487	2/1/1987	DACHES	41.07444	-75.98972	250	OPEN HOLE	20	0	DOMESTIC
128488	7/1/1986	THOMAS GLENN	41.12472	-76.03000	200	OPEN HOLE	12	20	DOMESTIC
128489	1/1/1987	PAWLAWSKI A	41.07556	-75.97806	200	OPEN HOLE	7	0	DOMESTIC
128490	7/1/1985	GUZICK	41.09167	-76.03778	200	OPEN HOLE	10	40	DOMESTIC
128491	12/1/1985	ENGLER C	41.13000	-76.00028	270	OPEN HOLE	40	270	DOMESTIC
128492	11/1/1985	WODVER B	41.14167	-75.97389	160	OPEN HOLE	50	160	DOMESTIC
128493	7/1/1985	STEIN S	41.06417	-76.01333	275	OPEN HOLE	5	275	DOMESTIC
128494	9/1/1985	SURA B	41.09056	-76.00250	300	OPEN HOLE	5	300	DOMESTIC
128495		ROKITKO	41.13222	-75.99389	200	OPEN HOLE	5	200	DOMESTIC
128496	8/1/1985	GEORGE W	41.14167	-75.97444	170	OPEN HOLE	50	170	DOMESTIC
128497	9/1/1985	MYLET T	41.07139	-76.02944	250	OPEN HOLE	5	250	DOMESTIC
128498	4/1/1986	REBAR J	41.09111	-75.95111	360	OPEN HOLE	40	360	DOMESTIC
128499	12/1/1984	DAUBER J	41.07861	-75.99333	250	OPEN HOLE	7	20	DOMESTIC
128500	9/1/1984	MEAD R	41.11028	-75.95750	225	OPEN HOLE	8	20	DOMESTIC
128501	5/1/1985	KLINGER J	41.10083	-76.00694	250	OPEN HOLE	5	20	DOMESTIC
128502	7/1/1984	HENRY S	41.09778	-75.94278	330	OPEN HOLE	15	40	DOMESTIC
128503	5/1/1984	WINTERGRASS W	41.10139	-76.00556	200	OPEN HOLE	8	20	DOMESTIC
128504	6/1/1984	EVANCHO A	41.10111	-76.01250	275	OPEN HOLE	6	30	DOMESTIC
128505	11/1/1983	GROENER	41.07000	-76.00333	275	OPEN HOLE	5	15	DOMESTIC
128506	11/1/1983	SCHOCK	41.09583	-75.94611	360	OPEN HOLE	4	40	DOMESTIC
128507	8/1/1983	YURICK H	41.10944	-75.95833	300	OPEN HOLE	10	20	DOMESTIC
128508	8/1/1983	RINEHIMER L	41.11222	-75.99972	200	OPEN HOLE	15	40	DOMESTIC
128509	1/1/1984	MYERS E	41.13833	-75.98000	190	OPEN HOLE	40	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128510	10/1/1983	SNYDER S	41.10444	-75.96972	200	OPEN HOLE	10	15	DOMESTIC
128511	11/1/1986	CEASER CAROL	41.07833	-76.01806	175	OPEN HOLE	15	30	DOMESTIC
128512	12/1/1983	DAVIS R	41.09861	-76.03750	275	OPEN HOLE	10	10	DOMESTIC
128513	7/1/1984	CULP B	41.09500	-76.04833	200	OPEN HOLE	15	30	DOMESTIC
128514	2/1/1989	RICHARDSON GLENN	41.06917	-76.00250	275	OPEN HOLE	4	30	DOMESTIC
128515	6/1/1988	HAYDT LEO	41.10444	-76.00806	180	OPEN HOLE	50	20	DOMESTIC
128516	2/1/1989	HERGAN	41.12556	-76.02361	300	OPEN HOLE	25	20	DOMESTIC
128517	6/1/1988	YOHEY	41.08250	-75.96000	225	OPEN HOLE	20	30	DOMESTIC
128518	1/1/1989	D & W CONSTRUCTION	41.09389	-75.96056	400	OPEN HOLE	10	30	DOMESTIC
128519	1/1/1989	JOHN	41.09694	-75.95833	400	OPEN HOLE	2	40	DOMESTIC
128520	10/1/1988	SCHWARTZ TOM	41.10472	-75.97361	400	OPEN HOLE	1	30	DOMESTIC
128521	8/1/1988	MYLET RICH	41.08056	-76.01583	325	OPEN HOLE	4	25	DOMESTIC
128522	2/1/1989	STIENBRENNER ANN	41.12500	-76.00500	550	OPEN HOLE	0	20	DOMESTIC
128523	7/1/1984	DAMENTIS STEAK HOUSE	41.07889	-75.95750	360	OPEN HOLE	12	60	DOMESTIC
128524	8/1/1987	KENNY	41.08056	-75.95222	345	OPEN HOLE	15	0	DOMESTIC
128525	4/1/1989	FIGMIC	41.10083	-76.01028	350	OPEN HOLE	2	40	DOMESTIC
128532	1/1/1970	SUN OIL CO	41.07750	-75.97389	153	OPEN HOLE	35	0	DOMESTIC
128542	7/23/1982	STEMPIEN J	41.28417	-76.28250	200	OPEN HOLE	25	0	DOMESTIC
128543	9/15/1981	FAIRMOUNT FIRE DEPT	41.29000	-76.30389	245		15	70	
128544	7/26/1982	HUDACK K	41.27611	-76.28889	400	OPEN HOLE	1	0	DOMESTIC
128545	8/1/1980	RIGHTMORE C	41.27444	-76.25278	335	OPEN HOLE	3	40	DOMESTIC
128546	1/1/1980	IDA B	41.30667	-76.23444	300	OPEN HOLE	5	100	DOMESTIC
128547	5/5/1975	BLASIC MIKE	41.22778	-76.28778	140		6	0	DOMESTIC
128548	4/1/1989	AZARAWICZ AL	41.28361	-76.30083	300	OPEN HOLE	4	30	DOMESTIC
128549	4/1/1989	MANN	41.28278	-76.30333	325	OPEN HOLE	7	40	DOMESTIC
128550	5/6/1988	WINTER J	41.29250	-76.23167	300	OPEN HOLE	3	0	DOMESTIC
128552	1/1/1967	HESS WM	41.28194	-76.24833	107	OPEN HOLE	7	20	DOMESTIC
128553	1/1/1967	MROZ STEPHEN	41.22889	-76.29083	141	OPEN HOLE	20	12	DOMESTIC
128554	1/1/1967	HILLEY ARTHUR	41.22111	-76.29500	104	OPEN HOLE	6	30	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128555	1/1/1968	VOLANSKI FRANK	41.22306	-76.28694	185	OPEN HOLE	6	55	DOMESTIC
128556	1/1/1967	KITTLE SUSAN	41.23722	-76.24389	100	OPEN HOLE	3	17	DOMESTIC
128557	7/15/1976	WILLIAMS THOMAS	41.15722	-75.89389	250		45	35	DOMESTIC
128558	12/1/1988	JONES HAROLD	41.16972	-75.86972	275	OPEN HOLE	8	30	DOMESTIC
128559	2/1/1989	BUCKLEY CRAIG	41.17000	-75.87444	300	OPEN HOLE	4	25	DOMESTIC
128560	7/1/1988	ORLOSKI BOB	41.16861	-75.87639	250	OPEN HOLE	20	30	DOMESTIC
128561	4/1/1989	JONES HAROLD	41.16917	-75.86861	250	OPEN HOLE	20	30	DOMESTIC
128562	10/1/1987	MOODY	41.16889	-75.88583	220	OPEN HOLE	3	0	DOMESTIC
128563	6/1/1987	KWOCHTWKO SAM	41.16389	-75.88417	150	OPEN HOLE	15	0	DOMESTIC
128565	10/1/1983	RAPCZINSKI R	41.04000	-75.79778	200	OPEN HOLE	20	15	DOMESTIC
128566	11/22/1972	BRINKMEIER VICTOR	41.04222	-75.79611	185		18	0	DOMESTIC
128567	5/13/1976	FLETCHER DENNIS	41.04250	-75.83306	200		25	0	DOMESTIC
128568	8/16/1974	MILLER GORDON	41.04000	-75.83278	230		22	0	DOMESTIC
128569	1/26/1977	WARD WILLIAM	41.04556	-75.77944	200		25	25	DOMESTIC
128570	5/4/1977	JOHN SABO BUILDER	41.02250	-75.87222	180		25	25	DOMESTIC
128571	7/3/1973	GENERAL HEAT & PUMP	41.03333	-75.82389	175		16	102	DOMESTIC
128572	12/19/1974	HOLIDAY LIFE	41.03444	-75.82139	275		11	150	DOMESTIC
128573	3/17/1974	SHEAMAN JOSEPH	41.03667	-75.82111	200		20	60	DOMESTIC
128574	7/26/1973	BARACCA	41.03500	-75.81444	200		8	0	DOMESTIC
128575	8/1/1977	SABO CONSTRUCTION	41.04222	-75.79778	300	OPEN HOLE	25	30	DOMESTIC
128576	4/1/1980	DUDA J	41.03167	-75.77667	280	OPEN HOLE	12	60	DOMESTIC
128577	9/23/1980	CARROLL E	41.03083	-75.78111	300	OPEN HOLE	9	64	DOMESTIC
128578	2/1/1981	ENERGY CONSERVATION	41.01222	-75.79806	280	OPEN HOLE	30	25	DOMESTIC
128579	8/1/1981	DINKO E	41.05722	-75.83389	360	OPEN HOLE	40	30	DOMESTIC
128580	8/1/1983	STETZMAN D	41.02194	-75.87778	360	OPEN HOLE	0	200	DOMESTIC
128581	7/1/1988	GERSON DON	41.03917	-75.83000	200	OPEN HOLE	30	20	DOMESTIC
128582	7/1/1985	ONUFRAH J	41.04000	-75.83167	225	OPEN HOLE	10	90	DOMESTIC
128583	11/1/1988	GERSON DON	41.04000	-75.83139	275	OPEN HOLE	12	30	DOMESTIC
128584	3/1/1989	LUDLAND HOMES	41.04000	-75.83111	225	OPEN HOLE	10	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128585	7/1/1988	GERSON DON	41.04000	-75.83083	250	OPEN HOLE	10	40	DOMESTIC
128586	12/1/1988	OSWALD	41.04000	-75.83056	175	OPEN HOLE	0	30	DOMESTIC
128587	4/1/1989	LUDLAND HOMES	41.04000	-75.83028	200	OPEN HOLE	15	35	DOMESTIC
128588	4/1/1989	LUDLAND HOMES	41.04000	-75.83000	250	OPEN HOLE	15	40	DOMESTIC
128589	5/1/1989	GERSON DON	41.03972	-75.83167	250	OPEN HOLE	15	30	DOMESTIC
128590	10/1/1988	LUDLAND HOMES	41.03944	-75.83167	350	OPEN HOLE	15	40	DOMESTIC
128591	10/1/1988	GERSON DON	41.03917	-75.83167	225	OPEN HOLE	30	40	DOMESTIC
128592	5/1/1989	GERSON DON	41.03889	-75.83167	250	OPEN HOLE	15	30	DOMESTIC
128593	11/1/1988	GERSON DON	41.03889	-75.83139	250	OPEN HOLE	12	30	DOMESTIC
128594	3/1/1989	LUDLAND HOMES	41.03889	-75.83111	450	OPEN HOLE	4	140	DOMESTIC
128595	4/1/1989	LUDLAND HOMES	41.03889	-75.83083	200	OPEN HOLE	20	30	DOMESTIC
128596	10/1/1988	GERSON DON	41.03889	-75.83056	375	OPEN HOLE	2	60	DOMESTIC
128597	10/1/1988	GERSON DON	41.03889	-75.83028	275	OPEN HOLE	5	40	DOMESTIC
128598	12/1/1988	LUDLAND HOMES	41.03889	-75.83000	420	OPEN HOLE	20	35	DOMESTIC
128599	10/1/1988	GERSON DON	41.03917	-75.83139	250	OPEN HOLE	10	30	DOMESTIC
128600	1/1/1989	MCCANDLE	41.03917	-75.83111	250	OPEN HOLE	12	20	DOMESTIC
128601	7/1/1988	GERSON DON	41.03917	-75.83083	200	OPEN HOLE	30	25	DOMESTIC
128602	5/1/1989	SABO HOMES	41.03917	-75.83056	200	OPEN HOLE	12	30	DOMESTIC
128603	12/1/1988	MILLER JAY	41.03917	-75.83028	400	OPEN HOLE	4	0	DOMESTIC
128604	6/1/1985	GERSON DON	41.04167	-75.80000	375	OPEN HOLE	35	270	DOMESTIC
128605	7/1/1986	WALSH DON	41.04167	-75.80028	240	OPEN HOLE	15	25	DOMESTIC
128606	3/1/1987	SHEAMAN F	41.04167	-75.80056	200	OPEN HOLE	20	0	DOMESTIC
128607	7/1/1986	SHEAMAN F	41.04167	-75.80083	275	OPEN HOLE	6	40	DOMESTIC
128608	9/1/1986	SHEAMAN F	41.04167	-75.79972	250	OPEN HOLE	8	21	DOMESTIC
128609	9/1/1986	SHEAMAN F	41.04167	-75.79667	250	OPEN HOLE	6	50	DOMESTIC
128610	5/1/1986	SHEAMAN F	41.04139	-75.80000	250	OPEN HOLE	10	42	DOMESTIC
128611	9/1/1986	WHEELER	41.04139	-75.79972	225	OPEN HOLE	15	30	DOMESTIC
128612	4/1/1987	SHEAMAN F	41.04139	-75.79944	400	OPEN HOLE	2	40	DOMESTIC
128613	4/1/1987	SHEAMAN F	41.04139	-75.79917	150	OPEN HOLE	15	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128614	5/1/1986	MEGONIGLE	41.04139	-75.79889	200	OPEN HOLE	20	40	DOMESTIC
128615	6/1/1986	DEAGAN	41.04111	-75.79972	300	OPEN HOLE	8	25	DOMESTIC
128616	4/1/1987	SHEAMAN F	41.04111	-75.79944	250	OPEN HOLE	8	25	DOMESTIC
128617	5/1/1986	SEARFOSS	41.04111	-75.79917	275	OPEN HOLE	10	25	DOMESTIC
128618	7/1/1988	RHODES BRUCE	41.04111	-75.79889	400	OPEN HOLE	2	25	DOMESTIC
128619	7/1/1988	MIEKO ED	41.04083	-75.79972	175	OPEN HOLE	15	20	DOMESTIC
128620	1/1/1989	SAMER BILL	41.04083	-75.79944	275	OPEN HOLE	5	20	DOMESTIC
128621	7/1/1988	FORCINO	41.04083	-75.79917	225	OPEN HOLE	15	30	DOMESTIC
128622	6/1/1987	HESS HENRY	41.06306	-75.78194	345	OPEN HOLE	3	0	DOMESTIC
128623	1/1/1988	GRAHMAN	41.04222	-75.83278	400	OPEN HOLE	1	0	
128624	9/1/1987	CORDES	41.04556	-75.83056	200	OPEN HOLE	12	0	DOMESTIC
128625	9/1/1987	SERAFOSS	41.04444	-75.82889	200	OPEN HOLE	20	0	DOMESTIC
128626	9/1/1987	BOND ALAN	41.06111	-75.79167	225	OPEN HOLE	6	0	DOMESTIC
128627	7/1/1987	KAUCKER GEORGE	41.06556	-75.81583	225	OPEN HOLE	15	0	DOMESTIC
128628	8/1/1987		41.06000	-75.82278	225	OPEN HOLE	10	0	DOMESTIC
128629	9/1/1984	MOSES B	41.04278	-75.80333	160	OPEN HOLE	20	20	DOMESTIC
128630	8/1/1987	SHEAMAN FRED	41.04250	-75.79111	250	OPEN HOLE	12	0	DOMESTIC
128631	11/1/1987	SHEAMAN FRED	41.04500	-75.78556	200	OPEN HOLE	20	0	DOMESTIC
128632	10/1/1987	TOLL D	41.03944	-75.78444	160	OPEN HOLE	30	30	DOMESTIC
128633	3/1/1987	DETWEILLER C	41.01722	-75.84417	250	OPEN HOLE	5	30	DOMESTIC
128634	7/1/1986	TIMKO	41.03472	-75.84722	275	OPEN HOLE	8	20	DOMESTIC
128635		TANNERY ROD&GUN CLUB	41.03722	-75.76583	300	OPEN HOLE	15	25	PUBLIC SUPPLY
128636	7/1/1983	DIAKO J	41.06556	-75.81583	300	OPEN HOLE	4	50	DOMESTIC
128637	7/24/1984	REED H	41.00917	-75.78222	160	OPEN HOLE	10	25	DOMESTIC
128638	6/1/1984	PROCKOPOVICH T	41.03083	-75.84389	220	OPEN HOLE	20	50	DOMESTIC
128639	2/1/1985	BONCEZK W	41.06083	-75.81000	125	OPEN HOLE	60	25	DOMESTIC
128640	12/1/1984	FORSCHER C	41.04333	-75.78167	125	OPEN HOLE	20	25	DOMESTIC
128641	4/1/1988		41.02306	-75.87056	300	OPEN HOLE	15	50	DOMESTIC
128642	3/1/1989	SARVO J	41.04417	-75.81167	220	OPEN HOLE	15	40	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128643	7/1/1988	FISHER R	41.05750	-75.84750	380	OPEN HOLE	5	80	DOMESTIC
128644	9/1/1988	PIASICK HENRY	41.02389	-75.86722	275	OPEN HOLE	10	25	DOMESTIC
128645	7/1/1988	BENSON HUDSON	41.04361	-75.79083	250	OPEN HOLE	12	30	DOMESTIC
128646	12/1/1987	GERSON DON	41.03167	-75.83167	300	OPEN HOLE	3	0	DOMESTIC
128647	11/1/1987	GERSON DON	41.03167	-75.83139	250	OPEN HOLE	10	0	DOMESTIC
128648	12/1/1987	GERSON DON	41.03167	-75.83111	250	OPEN HOLE	25	0	DOMESTIC
128649	6/1/1987	GERSON DON	41.03167	-75.83083	150	OPEN HOLE	10	30	DOMESTIC
128650	12/1/1987	LIBERTY HOMES	41.03167	-75.83056	216	OPEN HOLE	14	38	DOMESTIC
128651	10/1/1987	GERSON DON	41.03167	-75.83028	265	OPEN HOLE	25	0	DOMESTIC
128652	10/1/1987	GERSON DON	41.03167	-75.83000	200	OPEN HOLE	12	0	DOMESTIC
128653	6/1/1987	GERSON DON	41.03194	-75.83167	250	OPEN HOLE	6	90	DOMESTIC
128654	9/1/1987	SHEAMAN FRED	41.03194	-75.83139	175	OPEN HOLE	12	0	DOMESTIC
128655	6/1/1987	GERSON DON	41.03194	-75.83111	300	OPEN HOLE	3	0	DOMESTIC
128656	4/1/1988	ZACARIA	41.03194	-75.83083	200	OPEN HOLE	25	25	DOMESTIC
128657	12/1/1987	GERSON DON	41.03194	-75.83056	200	OPEN HOLE	12	0	DOMESTIC
128658	10/1/1987	GERSON DON	41.03194	-75.83028	225	OPEN HOLE	20	0	DOMESTIC
128659	12/1/1987	GERSON DON	41.03194	-75.83000	250	OPEN HOLE	25	0	DOMESTIC
128660	12/1/1987	GERSON DON	41.03222	-75.83167	200	OPEN HOLE	12	0	DOMESTIC
128661	6/1/1987	SHRINER	41.03222	-75.83139	200	OPEN HOLE	7	0	DOMESTIC
128662	11/1/1987	SHEAMAN FRED	41.03222	-75.83111	405	OPEN HOLE	1	0	DOMESTIC
128663	11/1/1987	GERSON DON	41.03222	-75.83083	250	OPEN HOLE	10	0	DOMESTIC
128664	8/1/1988	LIBERTY HOMES	41.03222	-75.83056	150	OPEN HOLE	20	20	DOMESTIC
128665	10/1/1988		41.03222	-75.83028	200	OPEN HOLE	20	50	DOMESTIC
128666	10/1/1988	HOLENBURG J	41.03222	-75.83000	250	OPEN HOLE	20	35	DOMESTIC
128667	10/1/1988	SMITH J	41.03222	-75.82972	220	OPEN HOLE	25	45	DOMESTIC
128668	6/1/1987	DIXON	41.04222	-75.79056	375	OPEN HOLE	2	0	DOMESTIC
128669	12/1/1987	SHEAMAN FRED	41.04278	-75.79056	250	OPEN HOLE	6	0	DOMESTIC
128670	12/1/1988	DUSER S	41.01250	-75.82361	210	OPEN HOLE	18	50	DOMESTIC
128671	8/1/1988	KOONS	41.04389	-75.79167	250	OPEN HOLE	20	30	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128672	9/1/1985	KERES D	41.04528	-75.78333	330	OPEN HOLE	5	330	DOMESTIC
128700	1/1/1973	FULK@HICKRY HLL	41.03750	-75.81639	258	OPEN HOLE	11	108	DOMESTIC
128701	1/1/1972	SABO JOHN	41.03750	-75.81639	110	OPEN HOLE	20	40	DOMESTIC
128702	1/1/1969	DAVIS RONNIE	41.03750	-75.81639	160	OPEN HOLE	24	40	DOMESTIC
128703	1/1/1969	SKARP RICHARD	41.03750	-75.81639	129	OPEN HOLE	15	25	DOMESTIC
128704	1/1/1970	SHEMO EDDIE	41.03750	-75.81639	129	OPEN HOLE	8	70	DOMESTIC
128705	1/1/1970	LESKO EMIL	41.03750	-75.81639	68	OPEN HOLE	31	15	DOMESTIC
128706	1/1/1972	SABO JOHN	41.03750	-75.81639	130	OPEN HOLE	20	45	DOMESTIC
128707	1/1/1972	SABO JOHN	41.03750	-75.81639	120	OPEN HOLE	15	45	DOMESTIC
128708	1/1/1972	SABO JOHN	41.03750	-75.81639	140	OPEN HOLE	25	40	DOMESTIC
128709	1/1/1973	SABO JOHN	41.03750	-75.81639	111	OPEN HOLE	20	18	DOMESTIC
128710	1/1/1973	SABO CONTR	41.03750	-75.81639	105	OPEN HOLE	20	40	DOMESTIC
128711	1/1/1967	OLSON ROBT A	41.03750	-75.81639	170	OPEN HOLE	12	50	DOMESTIC
128712	1/1/1967	OLSON ROBT	41.03750	-75.81639	126	OPEN HOLE	10	35	DOMESTIC
128713	1/1/1967	OLSON ROBT	41.03750	-75.81639	105	OPEN HOLE	25	27	DOMESTIC
128714	1/1/1967	OLSON ROBT	41.03750	-75.81639	108	OPEN HOLE	35	24	DOMESTIC
128715	1/1/1967	OLSON ROBT A	41.03750	-75.81639	98	OPEN HOLE	20	27	DOMESTIC
128716	1/1/1967	OLSON ROBT	41.03750	-75.81639	140	OPEN HOLE	15	37	DOMESTIC
128717	1/1/1966	KOSKO JOE	41.03750	-75.81639	103	OPEN HOLE	15	30	DOMESTIC
128718	1/1/1968	DAVIS CLARENCE	41.03083	-75.77528	130	OPEN HOLE	8	40	DOMESTIC
128719	1/1/1989	K L CONSTRUCTION	41.38611	-75.90667	425	OPEN HOLE	10	30	DOMESTIC
128720	9/26/1986	DYMOND TED	41.39028	-75.90028	185	OPEN HOLE	25	65	DOMESTIC
128721	7/18/1986	MCDONALD	41.39528	-75.92500	245	OPEN HOLE	3	60	DOMESTIC
128722	9/28/1983	BARTOS HENRY	41.39417	-75.91722	450	OPEN HOLE	20	135	DOMESTIC
128728	1/1/1988	BESANGON	41.22000	-75.85361	450	OPEN HOLE	20	0	DOMESTIC
128735	10/1/1980	CRAWFORD B	40.98111	-76.00833	300	OPEN HOLE	35	45	DOMESTIC
128736	9/1/1982	STINNER M	40.93389	-75.98722	120	OPEN HOLE	15	0	DOMESTIC
128737	10/1/1979	DIXON D	40.99278	-75.91222	160	OPEN HOLE	25	20	DOMESTIC
128738	1/12/1979	GEMO A	40.95278	-75.93111	200	OPEN HOLE	6	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128739	6/1/1981	DEANGELO J	40.99000	-75.99028	220	OPEN HOLE	25	25	DOMESTIC
128740	10/1/1983	POLERI CONSTRUCTION	40.98889	-75.99222	140	OPEN HOLE	25	0	DOMESTIC
128741	1/30/1977	SLUSSER BROS	40.92278	-75.99944	125		25	20	DOMESTIC
128742	1/28/1977	GOULD AND SON	40.96722	-75.97444	170		25	30	DOMESTIC
128743	9/1/1983	CUSATE J	41.00222	-75.96917	455	OPEN HOLE	6	20	DOMESTIC
128744	12/30/1976	TATE ANTHONY	41.00222	-75.96889	155		25	30	DOMESTIC
128745	10/2/1975	TERRICINO LORE	41.00250	-75.96889	170		20	20	DOMESTIC
128746	2/26/1977	PASTORELLA ANTHONY	41.00056	-75.96889	200		15	30	
128747	11/1/1977	PANZARELLA J	41.00222	-75.97111	200	OPEN HOLE	25	0	DOMESTIC
128748	6/1/1982	SLUSSER E	40.98722	-76.01389	380	OPEN HOLE	25	75	PUBLIC SUPPLY
128749	4/1/1988	CHROMATEY PLANT #2	40.97778	-76.02611	50	OPEN HOLE	4	0	INDUSTRIAL
128750	5/1/1988	MERRIL P	40.99222	-75.95972	580	OPEN HOLE	8	100	DOMESTIC
128751	11/1/1987	CLETES OP	40.98583	-75.95889	100	OPEN HOLE	30	9	PUBLIC SUPPLY
128752	7/1/1984	FORD R	40.99722	-75.99361	430	OPEN HOLE	8	60	DOMESTIC
128753	6/1/1988	HAZLE PARK	40.93167	-75.99194	650	OPEN HOLE	60	40	INDUSTRIAL
128754	2/24/1988	ACKERMAN BROS & SON	40.97278	-75.93389	300	OPEN HOLE	25	0	DOMESTIC
128755	2/2/1987	LUCHI HOMES	41.00417	-75.95639	240	OPEN HOLE	8	0	DOMESTIC
128756	3/1/1988	MACAFRITY J	40.98889	-75.94306	140	OPEN HOLE	25	5	DOMESTIC
128757	8/1/1986	DRAGICEVICH C	40.98583	-75.99500	140	OPEN HOLE	12	20	DOMESTIC
128758	8/1/1986	NOVOTNEY T	40.99278	-75.91667	200	OPEN HOLE	25	50	DOMESTIC
128759	8/1/1986	BALLIET L	41.00028	-75.96639	160	OPEN HOLE	15	50	DOMESTIC
128760	1/1/1985	MARTINI G	41.00139	-75.97278	220	OPEN HOLE	12	60	DOMESTIC
128761	8/1/1984	YANUZZI R	40.98556	-75.98889	120	OPEN HOLE	35	40	DOMESTIC
128762	11/8/1984	WAGNER J	41.00417	-75.96167	325	OPEN HOLE	30	0	DOMESTIC
128788	1/1/1966	FIERRIS STORE	40.98944	-75.97250	261	OPEN HOLE	6	100	DOMESTIC
128789	1/1/1966	HAZLE TWP	40.98417	-75.98694	63	OPEN HOLE	5	30	DOMESTIC
128790	1/1/1966	BIOS CAPLO	40.98222	-75.97583	145	OPEN HOLE	6	40	DOMESTIC
128791	1/1/1969	PA MONUMENT	40.93778	-76.04111	265	OPEN HOLE	5	0	DOMESTIC
128792	1/1/1969	MELLONVILLE CO	40.98889	-75.99139	195	OPEN HOLE	35	30	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128793	1/1/1970	DISCOUNT FURNIT	40.97611	-76.01111	325	OPEN HOLE	20	40	DOMESTIC
128794	1/1/1969	HUNEVICH THOMAS	40.94472	-75.96667	115	OPEN HOLE	35	5	DOMESTIC
128795	1/1/1969	GOULD WM	40.95833	-75.92528	85	OPEN HOLE	10	20	DOMESTIC
128796	1/1/1969	KOIS JOHN	40.95972	-76.00528	130	OPEN HOLE	12	60	DOMESTIC
128797	1/1/1969	GENNARO ANTHONY	40.99417	-75.99139	83	OPEN HOLE	9	20	DOMESTIC
128798	1/1/1969	MINNICH MARY	40.99472	-75.99306	70	OPEN HOLE	15	2	DOMESTIC
128799	1/1/1969	SEARCY MARYLOU	40.99556	-75.99250	84	OPEN HOLE	20	3	DOMESTIC
128800	1/1/1969	ILLEDG	40.95722	-75.93333	85	OPEN HOLE	12	15	DOMESTIC
128801	1/1/1970	CON ED	40.93556	-76.04028	255	OPEN HOLE	250	20	INDUSTRIAL
128802	1/1/1969	SABAL LEONARD	40.99333	-75.96000	83	OPEN HOLE	40	21	DOMESTIC
128803	1/1/1970	YACOWATZ NEIL	41.00139	-75.96306	100	OPEN HOLE	12	22	DOMESTIC
128804	1/1/1970	LURGAN JOHN	40.93889	-75.93500	129	OPEN HOLE	8	60	DOMESTIC
128805	1/1/1970	KONETZ ANDY	40.93806	-75.94167	69	OPEN HOLE	15	18	DOMESTIC
128806	1/1/1970	BURON VICTOR	40.93722	-75.94278	174	OPEN HOLE	22	70	DOMESTIC
128807	1/1/1970	DEANGELO ORLAND	40.99528	-75.98500	83	OPEN HOLE	8	12	DOMESTIC
128808	1/1/1970	ARNOLD ELWOOD	40.94722	-75.97028	144	OPEN HOLE	10	55	DOMESTIC
128809	1/1/1971	TATE ANTHONY	40.99917	-75.97500	99	OPEN HOLE	12	18	DOMESTIC
128810	1/1/1966	BOGART WALTER	40.99778	-75.99694	123	OPEN HOLE	8	40	DOMESTIC
128811	1/1/1971	KLATCH ANTHONY	41.11667	-75.96750	144	OPEN HOLE	8	24	DOMESTIC
128812	10/1/1982	HELLER G	41.05611	-76.07000	190	OPEN HOLE	20	14	DOMESTIC
128813	5/1/1983	HOYT G	41.08194	-76.04667	200	OPEN HOLE	45	20	DOMESTIC
128814	2/1/1983	RINEHIMER G	41.09083	-76.06111	240	OPEN HOLE	15	25	DOMESTIC
128815	12/1/1981	RINEHIMER R	41.08167	-76.09167	250	OPEN HOLE	5	60	DOMESTIC
128816	11/1/1983	WHITEBREAD D	41.07861	-76.08944	200	OPEN HOLE	10	20	DOMESTIC
128817	3/5/1974	READLER C	41.04722	-76.11389	200		20	18	DOMESTIC
128818	1/10/1976	WYDA BOB	41.06583	-76.08667	170		20	40	DOMESTIC
128819	3/10/1974	SHOBERT RALPH	41.06556	-76.10222	480		4	0	DOMESTIC
128820	7/17/1974	BADMAN RON	41.06611	-76.10222	510		2	0	DOMESTIC
128821	2/16/1976	LASKOSKY FRANCIS	41.05083	-76.08778	140		20	30	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128822	10/1/1987	BARNA JOE	41.05444	-76.03333	165	OPEN HOLE	25	0	DOMESTIC
128823	9/1/1987	ARNER GENNY	41.07361	-76.10111	300	OPEN HOLE	4	0	DOMESTIC
128824	9/1/1987	MILLER DON	41.07194	-76.06028	350	OPEN HOLE	3	0	DOMESTIC
128825	10/1/1987	KONSCHNICK	41.08972	-76.06750	300	OPEN HOLE	3	0	DOMESTIC
128826	6/1/1987	HUTTON B	41.07611	-76.06028	550	OPEN HOLE	2	0	DOMESTIC
128827	12/1/1987	BUCK	41.08111	-76.08167	375	OPEN HOLE	2	0	DOMESTIC
128828	11/1/1987	MARANOWSKI	41.09111	-76.06833	175	OPEN HOLE	25	0	DOMESTIC
128829	4/1/1988	BROWN	41.08111	-76.06444	400	OPEN HOLE	2	30	DOMESTIC
128830	7/1/1986	FRASSO J	41.09972	-76.08306	180	OPEN HOLE	20	25	DOMESTIC
128831	7/1/1986	DAILEY K	41.04722	-76.09639	320	OPEN HOLE	15	0	DOMESTIC
128832	2/1/1986	STEINBRENNER	41.08250	-76.08444	240	OPEN HOLE	15	60	DOMESTIC
128833	11/1/1985	CHAPIN C	41.05139	-76.10639	248	OPEN HOLE	30	0	DOMESTIC
128834	11/1/1984	LEWIS I	41.08556	-76.08833	225	OPEN HOLE	20	20	DOMESTIC
128835	4/1/1985	WYDA L	41.08750	-76.09694	225	OPEN HOLE	8	30	DOMESTIC
128836	8/1/1983	SIEGAL R	41.07444	-76.07611	200	OPEN HOLE	8	25	DOMESTIC
128837	9/1/1983	SENSON R	41.04722	-76.09333	225	OPEN HOLE	10	30	DOMESTIC
128838	7/1/1984	BECK	41.08944	-76.09250	345	OPEN HOLE	3	30	DOMESTIC
128839		DENNIS R	41.08083	-76.10528	300	OPEN HOLE	3	30	DOMESTIC
128840	3/1/1989	ROBBINS	41.04639	-76.09500	500	OPEN HOLE	20	40	DOMESTIC
128844	1/6/1980	HEINZ R	41.24444	-76.11833	500	OPEN HOLE	3	100	DOMESTIC
128845	8/1/1980	BROSH J	41.21056	-76.08278	350	OPEN HOLE	1	280	DOMESTIC
128846	9/1/1981	BRACE K	41.24222	-76.06611	240	OPEN HOLE	12	15	DOMESTIC
128847	5/21/1974	SIRAK JOHN	41.22444	-76.13056	410		2	42	DOMESTIC
128848	6/6/1974	HUMMELL HARRY	41.22444	-76.12778	200		2	0	DOMESTIC
128849	7/10/1974	BROSH JOE	41.22583	-76.13528	300		1	22	DOMESTIC
128850	2/16/1973	PALOWSKI ED	41.16667	-76.15917	185		40	0	DOMESTIC
128851	7/25/1974	CHARNITSKI FRANK	41.20722	-76.20167	455		6	45	DOMESTIC
128852	9/26/1984	HUNLOCK TWP	41.22583	-76.11333	595	OPEN HOLE	3	0	PUBLIC SUPPLY
128853	2/16/1985	SORBER D	41.24944	-76.13944	300	OPEN HOLE	1	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128855	1/1/1967	HARRISON CARL	41.22472	-76.11333	228	OPEN HOLE	8	86	DOMESTIC
128856	1/1/1969	TRZEINSKI F	41.21639	-76.11944	145	OPEN HOLE	10	28	DOMESTIC
128857	1/1/1970	DEMBOWSKI G	41.22056	-76.08222	97	OPEN HOLE	8	7	DOMESTIC
128858	1/1/1970	RUDDY DON	41.25722	-76.09389	161	OPEN HOLE	14	50	DOMESTIC
128859	1/1/1970	UNIATOWSKI JOHN	41.23778	-76.13917	141	OPEN HOLE	20	82	DOMESTIC
128860	10/18/1982	ZAGATA E	41.15194	-76.23722	175	OPEN HOLE	12	0	DOMESTIC
128861	8/1/1987	EVERETT JOHN	41.21222	-76.24528	300	OPEN HOLE	2	1	DOMESTIC
128862	10/22/1987	DRUMHELLER J	41.14194	-76.23972	300	OPEN HOLE	2	0	DOMESTIC
128863	5/11/1987	DAVIES L	41.21000	-76.29139	350	OPEN HOLE	20	0	DOMESTIC
128864	6/1/1985	FEATHERMAN E	41.15222	-76.21139	150	OPEN HOLE	4	0	DOMESTIC
128865	1/1/1985	THOMAS ENTERPRISES	41.19750	-76.30806	275	OPEN HOLE	20	0	DOMESTIC
128866	5/26/1983	SPROUT J	41.19833	-76.25167	250	OPEN HOLE	4	0	DOMESTIC
128867	9/20/1983	BALUTS E	41.21583	-76.24556	150	OPEN HOLE	5	0	DOMESTIC
128868	7/1/1983	KATES R	41.22056	-76.24583	400	OPEN HOLE	1	0	DOMESTIC
128869	6/6/1984	SCHUCKERS G	41.18833	-76.23000	122	OPEN HOLE	4	0	DOMESTIC
128870	1/1/1969	KRAVITZ JOHN	41.16528	-76.20861	115	OPEN HOLE	4	0	DOMESTIC
128871	1/1/1966	KALIE BERNARD	41.16528	-76.20861	110	OPEN HOLE	15	40	DOMESTIC
128872	1/1/1967	MCDANIELS WM S	41.17694	-76.22389	153	OPEN HOLE	4	20	DOMESTIC
128873	1/1/1967	GIMBER DICK	41.19083	-76.23611	150	OPEN HOLE	7	22	DOMESTIC
128874	1/1/1967	MCDERMOTT DON	41.18917	-76.23139	157	OPEN HOLE	24	28	DOMESTIC
128875	1/1/1968	KOONS RUFUS	41.19639	-76.23889	105	OTHER	20	25	DOMESTIC
128876	1/1/1968	FETCH GEORGE	41.18000	-76.22500	175	OPEN HOLE	4	10	DOMESTIC
128877	1/1/1968	PATTERSON CAMP	41.23056	-76.24028	45	OTHER	30	10	DOMESTIC
128878	1/1/1967	LEVALLEY MARVIN	41.21444	-76.24750	68	OPEN HOLE	6	24	DOMESTIC
128879	1/1/1967	NEJAKO FRANK	41.20528	-76.20278	77	OPEN HOLE	6	30	DOMESTIC
128880	1/1/1968	MCDERMOTT DON	41.19167	-76.27222	92	OPEN HOLE	45	4	DOMESTIC
128881	1/1/1968	STILES SAM	41.21250	-76.29028	200	OPEN HOLE	20	58	DOMESTIC
128882	4/1/1977	SUTTON HILLS ASSOC.	41.30889	-75.96833	600		55	124	PUBLIC SUPPLY
128883	1/15/1975	SPENCER BEN	41.27889	-75.96222	290		8	60	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128884	6/1/1988	EMNERT	41.26583	-75.98722	250	OPEN HOLE	8	0	DOMESTIC
128885	11/1/1988	C R YEAGLEY	41.27472	-75.95000	250	OPEN HOLE	30	30	DOMESTIC
128886	1/1/1989	MOTT	41.27417	-75.98250	350	OPEN HOLE	3	35	DOMESTIC
128887	8/1/1988	DEREMER RON	41.25194	-76.00417	200	OPEN HOLE	30	25	DOMESTIC
128888	4/1/1988	DALE & DALE	41.30889	-75.96056	500	OPEN HOLE	3	100	DOMESTIC
128889	3/1/1988	DELANEY	41.27111	-75.97278	300	OPEN HOLE	4	0	DOMESTIC
128890	5/10/1988	PHILLIPS BOB	41.27278	-75.98417	285	OPEN HOLE	9	0	DOMESTIC
128891	8/1/1983	CUNNINGHAM GUTRIE	41.29833	-75.94444	205	OPEN HOLE	60	0	DOMESTIC
128892	12/1/1988	CORGAN	41.29833	-75.94444	895	OPEN HOLE	2	200	DOMESTIC
128893	12/10/1988	EVANS WAYNE	41.28083	-75.97194	420	OPEN HOLE	5	0	DOMESTIC
128894	3/1/1989	QUERCI	41.30556	-75.95056	500	OPEN HOLE	4	45	DOMESTIC
128895	4/1/1988	JOSE RENE	41.30611	-75.95528	785	OPEN HOLE	4	150	DOMESTIC
128896	7/1/1987	RUTKOSKI L	41.30611	-75.95667	310		12	0	DOMESTIC
128897	9/1/1987	KNAPP D	41.30583	-75.95611	342		10	0	DOMESTIC
128898	3/11/1988	CORGAN M	41.30556	-75.95500	785	OPEN HOLE	5	500	DOMESTIC
128899		SUPPIY ROBERT	41.28944	-75.97472	345	OPEN HOLE	8	0	DOMESTIC
128908	1/1/1967	WOSS MIKE	41.26806	-75.96556	125	OPEN HOLE	20	57	DOMESTIC
128910	6/18/1974	WILSON JOHN	41.30111	-76.08778	300		15	34	DOMESTIC
128911	8/11/1979	CONTE D	41.36722	-76.08944	150	OPEN HOLE	30	30	DOMESTIC
128912	9/3/1974	LOVE RICHARD	41.32556	-76.11611	170		12	55	DOMESTIC
128913	9/23/1985	MARTIN WILLIAM	41.32083	-76.09944	225	OPEN HOLE	25	80	DOMESTIC
128914	12/9/1987	BOBB GEORGE	41.30250	-76.09861	375	OPEN HOLE	13	250	DOMESTIC
128915	11/1/1987	GORDON RAE	41.33833	-76.13833	330	OPEN HOLE	2	0	DOMESTIC
128923	1/1/1966	MARTIN JOS	41.30056	-76.09500	111	OPEN HOLE	15	53	DOMESTIC
128924	1/1/1966	MARTIN DAVID	41.30056	-76.09500	126	OPEN HOLE	15	66	DOMESTIC
128925	1/1/1966	FOSS CLIFFORD	41.33583	-76.09944	85	OPEN HOLE	32	35	DOMESTIC
128926	1/1/1966	KREIDLER ROBT	41.30500	-76.08750	108	OPEN HOLE	32	14	DOMESTIC
128927	1/1/1967	WINTERS WALTER	41.35389	-76.07722	292	OPEN HOLE	7	135	DOMESTIC
128928	1/1/1967	MARTIN ALFRED	41.37278	-76.08444	147	OPEN HOLE	16	80	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128929	1/1/1969	BANNON JAMES	41.35917	-76.06556	222	OPEN HOLE	40	9	DOMESTIC
128930	1/1/1969	CALKINS WM	41.37611	-76.08556	101	OPEN HOLE	34	8	DOMESTIC
128931	3/1/1987	BONK A	41.21861	-75.84500	250	OPEN HOLE	3	35	DOMESTIC
128932	3/1/1987	HURST	41.21194	-75.85556	125	OPEN HOLE	30	0	DOMESTIC
128933	9/1/1986	MILLER R	41.21806	-75.84222	604	OPEN HOLE	20	0	DOMESTIC
128935	1/1/1968	DRAFT REINHARD	41.22250	-75.86444	113	OPEN HOLE	20	0	DOMESTIC
128936	1/1/1969	TRAHT ALBERT	41.22250	-75.86167	83	OPEN HOLE	12	20	DOMESTIC
128937	5/27/1974	CHAMBERLAIN JIM	41.26389	-76.05722	170		20	25	DOMESTIC
128938	8/1/1977	GENECO SERVICES	41.29889	-76.09389	260	OPEN HOLE	60	20	DOMESTIC
128939	1/10/1974	YONKESKI RON	41.30889	-76.07111	200		7	0	DOMESTIC
128940	1/10/1975	SKOPEK MIKE	41.33722	-76.01389	300		15	40	DOMESTIC
128941	6/20/1975	ORLOPSKI JOE	41.27444	-76.08778	305		4	0	DOMESTIC
128942	2/23/1983	SHOLTES JOE	41.31500	-76.01667	185	OPEN HOLE	15	40	DOMESTIC
128943	2/22/1983	ROMANCHICK MYRON	41.31556	-76.01667	225	OPEN HOLE	12	50	DOMESTIC
128944	10/1/1980	HENNINGER M	41.26056	-76.02722	150	OPEN HOLE	25	15	DOMESTIC
128945	3/1/1989	MCHAHAN	41.26417	-76.05556	300	OPEN HOLE	5	60	DOMESTIC
128946	3/1/1989	KORMAN	41.27528	-76.07528	300	OPEN HOLE	3	25	DOMESTIC
128947	9/1/1988	TENNANBAUN BARRY	41.27861	-76.08417	450	OPEN HOLE	2	25	DOMESTIC
128948		BYCZEK RONALD	41.27083	-76.08694	315	OPEN HOLE	4	80	
128949	3/1/1987	LLOYD DAVE	41.31250	-76.07222	200	OPEN HOLE	20	0	DOMESTIC
128950	3/1/1987	MOYER HERB	41.31194	-76.07194	250	OPEN HOLE	12	25	DOMESTIC
128951	8/1/1986	POSTIC	41.27083	-76.08833	300	OPEN HOLE	1	25	DOMESTIC
128952	3/1/1987	SUTTON W	41.32583	-76.03472	225	OPEN HOLE	15	35	DOMESTIC
128953	8/21/1985	SPACE TOM	41.27667	-76.08167	400	OPEN HOLE	6	140	DOMESTIC
128954	9/1/1983	MICKNO G	41.28889	-76.06806	275	OPEN HOLE	10	20	DOMESTIC
128955	3/1/1988	NAUGLE SAND & GRAVEL	41.28917	-76.09083	700	OPEN HOLE	35	0	
128956	9/1/1983	RITTLE M	41.31000	-76.03000	360	OPEN HOLE	5	60	DOMESTIC
128958	1/1/1966	COOLBAUGH HARLD	41.30917	-76.02806	102	OPEN HOLE	26	19	DOMESTIC
128959	1/1/1966	COOLBAUGH GLENN	41.31889	-76.02167	176	OPEN HOLE	30	45	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128960	1/1/1966	KRUPSHA MICHAEL	41.31722	-76.02250	145	OPEN HOLE	26	48	DOMESTIC
128961	1/1/1967	COSGROVE KEN	41.32500	-76.01194	114	OPEN HOLE	25	57	DOMESTIC
128962	1/1/1967	GOODWIN GRACE	41.27222	-76.08611	110	OPEN HOLE	16	0	DOMESTIC
128963	1/1/1967	WALTERS RUSSEL	41.27139	-76.08750	165	OPEN HOLE	25	75	DOMESTIC
128964	1/1/1968	MARTIN THELMA	41.31639	-76.02250	221	OPEN HOLE	10	130	DOMESTIC
128965	1/1/1969	NIEZGODA JOHN	41.28083	-76.03167	149	OPEN HOLE	22	68	DOMESTIC
128966	1/1/1971	SZALKOWSKI C	41.27361	-76.07972	249	OPEN HOLE	12	40	DOMESTIC
128967	1/1/1966	HOZEMPA I	41.33000	-76.03861	206	OPEN HOLE	9	0	DOMESTIC
128968	1/1/1968	BARKOWSKI JOE	41.26639	-76.07861	300	OPEN HOLE	2	0	DOMESTIC
128969	3/2/1983	DOUTHAT J	41.05194	-76.20500	200	OPEN HOLE	0	0	DOMESTIC
128970	11/1/1982	EROH G	41.05278	-76.16389	300	OPEN HOLE	5	0	DOMESTIC
128971	7/28/1982	MATASH A	41.04333	-76.20306	450	OPEN HOLE	4	0	DOMESTIC
128972	5/3/1982	DRIBELLIS W	41.04167	-76.19889	225	OPEN HOLE	6	0	DOMESTIC
128973	7/2/1981	HOPPY B	41.03417	-76.16722	225	OPEN HOLE	8	0	DOMESTIC
128974	8/1/1980	RYMAN W	41.05278	-76.16389	360	OPEN HOLE	35	0	DOMESTIC
128975	8/1/1978	BLACKBURN ED	41.03667	-76.17611	300	OPEN HOLE	20	40	DOMESTIC
128976	10/20/1980	U S GEOL SURVEY	41.05889	-76.19806	200	OPEN HOLE	6	23	
128977	10/20/1980	U S GEOL SURVEY	41.05889	-76.19778	55	PERFORATED OR SLOTTED	36	23	
128978	4/1/1978	DEISEHAINE B	41.03917	-76.13722	100	OPEN HOLE	8	0	DOMESTIC
128979	4/1/1978	DEISEHAINE B	41.03778	-76.13750	150	OPEN HOLE	6	0	DOMESTIC
128980	7/1/1977	TRAPHIVE S	41.01778	-76.20333	200	OPEN HOLE	6	0	DOMESTIC
128981	4/1/1989	MARGARM HOWARD	41.04333	-76.18389	360	OPEN HOLE	15	70	DOMESTIC
128982	4/1/1989	LLOYD BILL	41.04444	-76.14639	275	OPEN HOLE	7	35	DOMESTIC
128983	4/1/1989	LYNN J	41.04444	-76.18667	200	OPEN HOLE	25	30	DOMESTIC
128984	4/1/1989	PALERY D	41.04417	-76.18667	220	OPEN HOLE	12	50	DOMESTIC
128985	11/23/1988	LUNDY CONSTRUCTION	41.04944	-76.15778	200	OPEN HOLE	20	0	DOMESTIC
128986	3/11/1988	TYRRELL C	41.04444	-76.18806	275	OPEN HOLE	40	0	DOMESTIC
128987	5/1/1988	BOENICH J	41.04306	-76.14028	200	OPEN HOLE	15	40	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
128988	5/1/1988	ADAMS A	41.04417	-76.18389	360	OPEN HOLE	15	85	DOMESTIC
128989	5/1/1988	SMITH R	41.03500	-76.14028	180	OPEN HOLE	25	40	DOMESTIC
128990	9/25/1987	MADISH M	41.03250	-76.21861	340	OPEN HOLE	3	0	DOMESTIC
128991	8/13/1987	MILLER G	41.04083	-76.19028	300	OPEN HOLE	1	0	DOMESTIC
128992	9/1/1987	RYMAN H	41.05500	-76.18833	280	OPEN HOLE	8	0	DOMESTIC
128993	6/1/1987	BREMMER M	41.04167	-76.13333	398	OPEN HOLE	1	0	DOMESTIC
128994	4/1/1988	RYMAN FARM	41.05417	-76.17472	200	OPEN HOLE	20	60	DOMESTIC
128995	4/1/1988	AUDIMATION	41.05278	-76.16556	240	OPEN HOLE	20	60	INDUSTRIAL
128996	11/7/1986	BOWER K	41.05361	-76.17056	420	OPEN HOLE	1	0	DOMESTIC
128997	10/15/1986	RYMAN V	41.03694	-76.21250	360		3	0	DOMESTIC
128998	6/1/1985	MCCREARY J	41.04111	-76.14889	275	OPEN HOLE	5	0	DOMESTIC
128999	10/1/1986	REIMARD E	41.04361	-76.18278	380	OPEN HOLE	20	70	DOMESTIC
129000	8/1/1986	SMITH	41.04278	-76.14361	180	OPEN HOLE	12	40	DOMESTIC
129001	7/1/1986	WENNER R	41.04333	-76.17889	280	OPEN HOLE	60	70	DOMESTIC
129002	1/14/1985	WOOD LAND PRODUCT	41.05528	-76.12861	508	OPEN HOLE	2	0	STOCK
129003	7/5/1984	PADEN J	41.04389	-76.20444	300	OPEN HOLE	5	0	DOMESTIC
129004	2/1/1986	READLER K	41.03917	-76.18917	223	OPEN HOLE	12	0	DOMESTIC
129005	8/30/1984	HOUGH H	41.02472	-76.20667	150	OPEN HOLE	15	0	DOMESTIC
129006	7/1/1983	SUPERKO D	41.03889	-76.15194	330	OPEN HOLE	15	40	DOMESTIC
129007	7/1/1983	KESSLER J	41.04333	-76.20528	225		9	0	
129008	9/15/1983	PADEN J	41.04472	-76.20611	400	OPEN HOLE	2	0	DOMESTIC
129015	1/1/1966	RYMAN WARREN	41.04083	-76.14306	235	OPEN HOLE	10	91	DOMESTIC
129016	1/1/1969	HASKELL KENNETH	41.01417	-76.20722	75	OPEN HOLE	30	0	DOMESTIC
129017		KLINE LARRY	41.04944	-76.16528	140	OPEN HOLE	0	0	DOMESTIC
129018		DEISCHAINE RLND	41.03944	-76.13778	275	OPEN HOLE	20	0	DOMESTIC
129019		JUMPER HARRY	41.03472	-76.17444	125	OPEN HOLE	8	0	DOMESTIC
129020		FILMORE MARTIN	41.03361	-76.17306	175	OPEN HOLE	6	0	DOMESTIC
129021		STEINHAUER REV	41.03306	-76.17389	170	OPEN HOLE	25	35	DOMESTIC
129022		HOUCH HAROLD	41.03333	-76.17222	140	OPEN HOLE	15	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129023		SEWARD HAROLD	41.03194	-76.17194	245	OPEN HOLE	22	50	DOMESTIC
129024		HAWK GEORGE	41.03333	-76.18000	230	OPEN HOLE	18	30	DOMESTIC
129025		VALENTINO DAN	41.02861	-76.18278	300	OPEN HOLE	2	160	DOMESTIC
129026		CHANDER CARMEN	41.01944	-76.21417	185	OPEN HOLE	20	40	DOMESTIC
129027		BENJAMIN ORVILL	41.04278	-76.19833	125	OPEN HOLE	0	0	DOMESTIC
129028		CHAPIN CURTIS	41.04583	-76.12056	140	OPEN HOLE	30	0	DOMESTIC
129029	1/1/1989	HILDEBRAND RAY	41.16556	-76.01056	250	OPEN HOLE	10	45	DOMESTIC
129030	9/1/1979	SKURSKI	41.15083	-75.97611	250	OPEN HOLE	6	40	DOMESTIC
129031	10/1/1982	RINEHIMER R	41.15111	-75.97611	220	OPEN HOLE	7	40	DOMESTIC
129032	5/1/1983	RINEHIMER D	41.15056	-75.97556	240	OPEN HOLE	25	45	DOMESTIC
129033	4/1/1983	BECK P	41.15028	-75.97556	240	OPEN HOLE	25	45	DOMESTIC
129034	10/1/1987	KOKINDA	41.15083	-75.97222	330	OPEN HOLE	3	0	DOMESTIC
129035	8/1/1987	HORWATH	41.15667	-75.98333	200	OPEN HOLE	15	0	DOMESTIC
129036	7/1/1986	ADAMS	41.15528	-75.98194	300	OPEN HOLE	4	35	DOMESTIC
129037	9/1/1988	YODER	41.16194	-75.98639	225	OPEN HOLE	50	20	DOMESTIC
129038	6/1/1983	NESMITH P	41.16389	-75.97083	300	OPEN HOLE	3	10	DOMESTIC
129039	7/1/1985	ORLOSKI F	41.15389	-75.97806	225	OPEN HOLE	12	225	PUBLIC SUPPLY
129040	8/1/1985	STUCKER	41.15194	-75.96833	200	OPEN HOLE	12	200	
129041	9/1/1985	ARCHER J	41.15083	-75.97250	250	OPEN HOLE	6	300	DOMESTIC
129042	7/1/1983	SPAIDE G	41.15667	-75.97778	300	OPEN HOLE	3	25	DOMESTIC
129043	11/1/1985	HALKO S	41.16444	-75.98028	175	OPEN HOLE	15	175	DOMESTIC
129044	7/1/1984	MALKEMES	41.15111	-75.97139	200	OPEN HOLE	5	20	DOMESTIC
129045	5/1/1985	SKIRCHAK T	41.15111	-75.97000	250	OPEN HOLE	15	20	DOMESTIC
129046	5/1/1988	UNKNOWN	41.15806	-75.96806	330	OPEN HOLE	5	0	DOMESTIC
129051	6/12/1974	YENCHA RICHARD	41.27111	-75.95500	350		6	25	DOMESTIC
129052	5/1/1989	LEHMAN HOMES	41.25556	-76.05000	450	OPEN HOLE	2	40	DOMESTIC
129053	1/1/1989	MARGIEWCZ	41.26667	-75.96000	300	OPEN HOLE	5	30	DOMESTIC
129054	2/1/1989	GIMBLE	41.26583	-75.95472	200	OPEN HOLE	8	0	DOMESTIC
129055	10/1/1985	CASEY K	41.26528	-75.96806	250	OPEN HOLE	8	250	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129056	1/1/1966	SOLETSKI ALEX	41.24806	-75.94361	135	OPEN HOLE	10	50	DOMESTIC
129057	1/1/1968	RAVERT ALLAN	41.24639	-75.97028	165		20	30	DOMESTIC
129058	10/1/1983	LOSOSKY D	41.15139	-75.95556	240		20	0	DOMESTIC
129059	11/1/1981	WEYHENMEYER T	41.14389	-75.97000	240	OPEN HOLE	200	53	DOMESTIC
129060	11/1/1980	ROGERS C	41.14778	-75.94611	245	OPEN HOLE	10	50	DOMESTIC
129061	7/1/1979	SAPP J	41.15111	-75.95583	240	OPEN HOLE	8	40	DOMESTIC
129062	5/10/1979	SAPP JOHN	41.15667	-75.94389	275		5	50	DOMESTIC
129063	9/3/1976	VALLEY VIEW BUILDERS	41.16444	-75.92444	245		25	40	DOMESTIC
129064	11/1/1981	RICE TOWNSHIP	41.14639	-75.95889	225	OPEN HOLE	100	6	PUBLIC SUPPLY
129065	6/1/1988	CIPRIANI	41.15000	-75.94694	200	OPEN HOLE	50	20	DOMESTIC
129066	1/1/1989	HALCHAK	41.15583	-75.94611	200	OPEN HOLE	12	40	DOMESTIC
129067	2/1/1989	PAULEWICZ	41.14500	-75.94500	250	OPEN HOLE	15	30	DOMESTIC
129068	8/1/1988	GRAHMAN ROBERT	41.16500	-75.95917	300	OPEN HOLE	4	30	DOMESTIC
129069	1/1/1989	ROSE	41.15778	-75.96722	275	OPEN HOLE	25	20	DOMESTIC
129070	2/1/1989	DISABATIARO	41.15667	-75.94444	250	OPEN HOLE	8	30	DOMESTIC
129071	6/1/1988	GEGARIS	41.15694	-75.93889	275	OPEN HOLE	7	0	DOMESTIC
129072	6/1/1988	STUCKER	41.15528	-75.94500	250	OPEN HOLE	7	25	DOMESTIC
129073	4/1/1989	WELLS	41.12722	-75.94194	300	OPEN HOLE	3	30	DOMESTIC
129074	7/1/1988	CHERRY	41.15500	-75.94361	250	OPEN HOLE	15	30	DOMESTIC
129075	9/1/1986	KEPHART	41.15028	-75.95556	275	OPEN HOLE	5	20	DOMESTIC
129076	7/1/1987	WEYNENMEYER MIKE	41.14694	-75.95833	175	OPEN HOLE	20	0	DOMESTIC
129077	1/1/1988	YEAGLEY HOMES	41.14472	-75.95306	300	OPEN HOLE	10	0	DOMESTIC
129078	12/1/1987	SMITH BOB	41.16667	-75.93250	175	OPEN HOLE	20	0	DOMESTIC
129079	4/1/1988	MT TOP AMBULANCE	41.14667	-75.95972	200	OPEN HOLE	6	0	DOMESTIC
129080	11/1/1987	SIEGAL	41.15444	-75.95083	300	OPEN HOLE	4	0	DOMESTIC
129081	9/1/1987	STARKEY DAMIEN	41.13806	-75.94833	250	OPEN HOLE	20	0	DOMESTIC
129082	10/1/1987	BUFF FRANK	41.13917	-75.96667	225	OPEN HOLE	15	0	DOMESTIC
129083	4/1/1988	KAMINSKI CARL	41.16667	-75.93389	250	OPEN HOLE	20	25	DOMESTIC
129084	2/1/1988	WARD	41.14861	-75.97250	330	OPEN HOLE	3	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129085	11/1/1986	MICZKOWSKI	41.14500	-75.93250	300	OPEN HOLE	20	30	DOMESTIC
129086	11/1/1986	COVERT	41.15639	-75.94750	300	OPEN HOLE	5	40	DOMESTIC
129087	7/1/1986	BARCHESKI BILL	41.15750	-75.94333	270	OPEN HOLE	20	40	DOMESTIC
129088	11/1/1985	ZOLROWSKI E	41.16306	-75.93278	200	OPEN HOLE	10	200	DOMESTIC
129089	8/1/1985	WHITMIRE L	41.15667	-75.94667	265		7	265	DOMESTIC
129090	11/1/1985	STEMRICH T	41.16000	-75.93806	170	OPEN HOLE	25	170	DOMESTIC
129091	4/1/1985	JAKABOWSKI P	41.15833	-75.94139	225	OPEN HOLE	10	20	DOMESTIC
129092	12/1/1983	WIERNUSZ	41.15056	-75.95361	200	OPEN HOLE	9	25	DOMESTIC
129093	10/1/1984	JOHNSON B	41.14250	-75.92167	200	OPEN HOLE	15	30	DOMESTIC
129094	3/5/1980	LORD S	41.29611	-76.12333	300	OPEN HOLE	10	100	DOMESTIC
129095	9/1/1980	BRANDRETH D	41.25889	-76.17722	230	OPEN HOLE	5	180	DOMESTIC
129096	7/20/1970	PATLA CHARLES	41.28722	-76.20917	280		10	64	DOMESTIC
129097	8/1/1988	SEPRISH ED	41.31972	-76.16611	500	OPEN HOLE	1	70	DOMESTIC
129098	12/1/1988	BULFORD	41.14444	-76.19694	330	OPEN HOLE	4	25	DOMESTIC
129099	1/1/1984	STRUNGIS B	41.26000	-76.18861	405	OPEN HOLE	1	50	DOMESTIC
129100	10/24/1984	AUCHUS D	41.26694	-76.15528	325	OPEN HOLE	10	0	DOMESTIC
129101	6/1/1988	MASTERS DALE	41.29139	-76.16806	250	OPEN HOLE	5	40	DOMESTIC
129102	1/18/1987	HOOVER G	41.29083	-76.14139	360	OPEN HOLE	2	0	DOMESTIC
129103	3/28/1988	ROGINSKI FRANK	41.27611	-76.15861	345	OPEN HOLE	30	180	DOMESTIC
129104	2/2/1984	FIVE MT. CLUB	41.29083	-76.15917	172	OPEN HOLE	15	0	DOMESTIC
129105	9/1/1987	DOMBOWSKI JERRY	41.26750	-76.15500	150	OPEN HOLE	6	20	DOMESTIC
129111	1/1/1966	STROUD RICHARD	41.29361	-76.12583	141	OPEN HOLE	10	38	DOMESTIC
129112	1/1/1966	GAYESKI JOHN	41.26806	-76.15250	160	OPEN HOLE	7	41	DOMESTIC
129113	1/1/1966	RODZINAK THOMAS	41.25083	-76.16056	140	OPEN HOLE	10	37	DOMESTIC
129114	1/1/1968	QUCKUS WM	41.26056	-76.18750	112	OPEN HOLE	12	16	DOMESTIC
129115	1/1/1966	ROSS TWP	41.25472	-76.18056	212	OPEN HOLE	18	47	DOMESTIC
129116	1/1/1966	SCOTT ROSS	41.25861	-76.17222	184	OPEN HOLE	20	32	DOMESTIC
129117	1/1/1966	SCOTT ROBERT	41.28944	-76.14583	184	OPEN HOLE	20	32	DOMESTIC
129118	1/1/1967	MAJOR RUSSEL	41.27944	-76.14694	195	OPEN HOLE	32	0	INDUSTRIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129119	1/1/1967	KNAPISH STANLEY	41.29306	-76.13028	270	OPEN HOLE	15	202	DOMESTIC
129120	1/1/1969	OUCKUS WM	41.25806	-76.14917	112	OPEN HOLE	12	20	DOMESTIC
129121	1/1/1969	POST HAROLD	41.24750	-76.21750	136	OPEN HOLE	20	48	DOMESTIC
129122	1/1/1969	WESTON DARREL	41.25583	-76.15389	280	OPEN HOLE	4	46	DOMESTIC
129123	1/1/1969	MAJOR GEORGE	41.24722	-76.21750	99	OPEN HOLE	24	20	DOMESTIC
129124	1/1/1969	DOHER JOSEPH	41.25694	-76.15917	130	OPEN HOLE	16	20	DOMESTIC
129125	1/1/1969	MOSS LOREN	41.27361	-76.15056	172	OPEN HOLE	6	27	DOMESTIC
129126	1/1/1970	MUSIAL ED	41.27056	-76.15056	139	OPEN HOLE	20	68	DOMESTIC
129127	1/1/1969	LAIDACKER ROBT	41.26111	-76.14889	188	OPEN HOLE	6	52	DOMESTIC
129128	1/1/1970	LANE DELBERT	41.24611	-76.19750	156	OPEN HOLE	10	0	DOMESTIC
129129	1/1/1970	FOSS TOM	41.28278	-76.14500	128	OPEN HOLE	10	18	DOMESTIC
129130	1/1/1969	THOMAS WAYNE	41.22056	-76.20500	173	OPEN HOLE	20	64	DOMESTIC
129131	1/1/1968	KOSHINSKI JOHN	41.25778	-76.14417	156	OPEN HOLE	15	8	DOMESTIC
129132	1/1/1967	WOLFE WALTER	41.29000	-76.14028	173	OPEN HOLE	24	63	DOMESTIC
129133	1/1/1968	PARTINGTON	41.24611	-76.19750	212	OPEN HOLE	5	65	DOMESTIC
129134	1/1/1968	LEWIS LESTER	41.25583	-76.15083	191	OPEN HOLE	18	40	DOMESTIC
129135	8/26/1981	PPL COMPANY	41.09389	-76.14611	225	OPEN HOLE	35	7	PUBLIC SUPPLY
129136	10/11/1982	DAGOSTINE W	41.07278	-76.21194	550	OPEN HOLE	12	0	DOMESTIC
129137	8/9/1978	HONSE JOE	41.10111	-76.17056	100		8	0	DOMESTIC
129138	5/14/1982	JOHNSON R	41.11222	-76.16417	200	OPEN HOLE	5	0	DOMESTIC
129139	9/8/1980	SEELLY E	41.09333	-76.16944	100	OPEN HOLE	0	0	DOMESTIC
129140	11/25/1981	BAKER W	41.08056	-76.18861	325	OPEN HOLE	5	0	DOMESTIC
129141	5/18/1982	BENSCOTER L	41.07444	-76.15167	128	OPEN HOLE	12	0	DOMESTIC
129142	9/9/1980	SEELY E	41.09167	-76.16917	55	OPEN HOLE	0	0	DOMESTIC
129143	3/12/1982	SHUMAN S	41.06778	-76.17472	410	OPEN HOLE	40	0	DOMESTIC
129144	8/10/1982	DAGOSTINE W	41.08000	-76.19667	350	OPEN HOLE	3	0	DOMESTIC
129145	10/13/1988	YARON D	41.07222	-76.14000	450	OPEN HOLE	10	0	DOMESTIC
129146	1/28/1988	JOHNSON B	41.10111	-76.22833	150	OPEN HOLE	10	0	DOMESTIC
129147	8/31/1983	FEDORCO M	41.08278	-76.18611	340	OPEN HOLE	1	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129148	10/25/1984	CRANE L	41.14000	-76.20333	200	OPEN HOLE	4	0	DOMESTIC
129149	1/5/1984	BANKES R	41.15000	-76.16278	150	OPEN HOLE	10	0	DOMESTIC
129150	3/10/1987	LUNDY CONSTRUCTION	41.06806	-76.16417	325	OPEN HOLE	110	0	DOMESTIC
129151	4/13/1987	DELLEGROTTI P	41.07056	-76.22778	150	OPEN HOLE	15	0	DOMESTIC
129152	6/22/1987	BECHTOLD S	41.08000	-76.15861	150	OPEN HOLE	40	0	DOMESTIC
129153	9/16/1987	DESCHAINE B	41.09139	-76.21528	450	OPEN HOLE	4	0	DOMESTIC
129154	9/15/1987	DESCHAINE B	41.09083	-76.21472	450	OPEN HOLE	3	0	DOMESTIC
129155	9/26/1986	CRANE N	41.08556	-76.15306	400	OPEN HOLE	2	0	DOMESTIC
129156	7/18/1984	EDWARDS B	41.07722	-76.22389	175	OPEN HOLE	6	0	DOMESTIC
129157	8/15/1986	BUCK J	41.07722	-76.20694	125	OPEN HOLE	15	0	DOMESTIC
129158	5/29/1986	KRAMER B	41.07361	-76.17889	300	OPEN HOLE	2	0	DOMESTIC
129159	5/1/1985	KYTTLE O	41.11111	-76.19306	200	OPEN HOLE	4	0	DOMESTIC
129160	8/23/1985	MASON JR. R	41.07778	-76.22361	250	OPEN HOLE	5	0	DOMESTIC
129161	7/16/1985	LAUBACH B	41.10889	-76.21167	225	OPEN HOLE	5	0	DOMESTIC
129162	10/21/1985	KECK R	41.09389	-76.21694	500	OPEN HOLE	3	0	DOMESTIC
129163	4/13/1984	ZWALHUSKI A	41.08944	-76.20083	100	OPEN HOLE	1	0	DOMESTIC
129164	10/3/1983	HART K	41.06861	-76.19611	200	OPEN HOLE	5	0	DOMESTIC
129165	10/10/1984	LUCIW T	41.10694	-76.18611	150		7	0	DOMESTIC
129166	4/28/1983	DAVIS J	41.09083	-76.22333	275	OPEN HOLE	7	0	DOMESTIC
129167	8/23/1983	KEMMER C	41.07111	-76.19806	350	OPEN HOLE	4	0	DOMESTIC
129174	1/1/1973	PA POWER &LIGHT	41.09250	-76.13167	81	SCREEN	500	8	INDUSTRIAL
129175	1/1/1973	PA POWER &LIGHT	41.09250	-76.13167	96	PERFORATED OR SLOTTED	0	0	
129176	1/1/1973	PA POWER &LIGHT	41.09806	-76.13167	54	PERFORATED OR SLOTTED	0	0	
129177	1/1/1966	RHINARD VIRGIL	41.09778	-76.21417	95	OPEN HOLE	9	25	DOMESTIC
129178	1/1/1966	GARRISON IRVIN	41.13917	-76.20528	135	OPEN HOLE	30	50	DOMESTIC
129179	1/1/1967	ZWOLINSKI STEVE	41.06944	-76.16750	100	OPEN HOLE	20	15	DOMESTIC
129180	1/1/1967	KNORR SAMUEL	41.08667	-76.19278	117	OPEN HOLE	8	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129181	1/1/1967	HAUGH HAROLD W	41.07250	-76.19583	193	OPEN HOLE	2	75	DOMESTIC
129182	1/1/1967	GUNTHER BART	41.10694	-76.21556	215	OPEN HOLE	4	80	DOMESTIC
129183	1/1/1967	ZWOLINSKI S	41.07194	-76.17556	85	OPEN HOLE	14	22	DOMESTIC
129184	1/1/1968	FULLER MAURICE	41.06944	-76.16750	80	OPEN HOLE	32	12	DOMESTIC
129185	1/1/1968	DAVENPORT WM	41.06722	-76.17639	66		4	14	DOMESTIC
129186	1/1/1970	SALEM TWP	41.08333	-76.14056	175	OPEN HOLE	12	0	DOMESTIC
129187	1/1/1968	BEACH HAV COM	41.06722	-76.16972	51	OPEN HOLE	40	12	DOMESTIC
129188		ROMAN HOMES	41.06944	-76.16500	125	OPEN HOLE	7	0	PUBLIC SUPPLY
129189		BURKE RUSSEL	41.06972	-76.16417	100	OPEN HOLE	8	0	DOMESTIC
129190		BCH HVN FIRE CO	41.06806	-76.16167	100	OPEN HOLE	12	40	DOMESTIC
129191		DAVIS WILLIAM	41.06750	-76.16389	100	OPEN HOLE	6	0	DOMESTIC
129192		DOLLMAIV WM	41.06583	-76.16000	150	OPEN HOLE	6	0	DOMESTIC
129193		ZIETTS ANDY	41.06611	-76.15778	225	OPEN HOLE	3	0	DOMESTIC
129194		MOLYNEAUX SHLDN	41.06917	-76.16639	50	OPEN HOLE	15	0	DOMESTIC
129195		VARNER ARTHUR	41.08583	-76.19250	125	OPEN HOLE	7	0	DOMESTIC
129196		BRADER HERB	41.08944	-76.18056	100	OPEN HOLE	12	0	DOMESTIC
129197		GUYER ANTHONY	41.08500	-76.17333	125	OPEN HOLE	6	0	DOMESTIC
129198		DIAUGSTINE V	41.07167	-76.19667	275	OPEN HOLE	4	0	DOMESTIC
129199		MORGAN PIERCE	41.06722	-76.21750	125	OPEN HOLE	8	65	DOMESTIC
129200		KESSLER HAROLD	41.08972	-76.22361	300	OPEN HOLE	5	0	DOMESTIC
129201		SWITZER JIM	41.10361	-76.21167	75	OPEN HOLE	6	35	DOMESTIC
129202		KELLER EARL	41.10444	-76.21167	125	OPEN HOLE	8	0	DOMESTIC
129203		NAUNCZEK BENNIE	41.07972	-76.22528	100	OPEN HOLE	12	30	DOMESTIC
129204		NAUNCZEK BENNIE	41.07417	-76.22750	100	OPEN HOLE	10	0	DOMESTIC
129205		NAUNCZEK BENNIE	41.07417	-76.22611	125	OPEN HOLE	15	0	DOMESTIC
129206		FEISSNOR LARRY	41.08028	-76.22639	175	OPEN HOLE	10	100	DOMESTIC
129207		PINTERICH ROBT	41.07306	-76.22556	175	OPEN HOLE	5	0	DOMESTIC
129208		HILLS COMPANY	41.08694	-76.22056	250	OPEN HOLE	6	0	DOMESTIC
129209		BOGART LARUE	41.09083	-76.20333	125	OPEN HOLE	7	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129210		BOONER RICHARD	41.09056	-76.20222	200	OPEN HOLE	25	60	DOMESTIC
129211		COWIE ROBERT	41.09556	-76.19139	615	OPEN HOLE	2	375	DOMESTIC
129212		KARCHNER GERALD	41.08639	-76.19083	130	OPEN HOLE	10	25	DOMESTIC
129213		DENN THOMAS	41.08333	-76.18556	125	OPEN HOLE	10	0	DOMESTIC
129214		KOONS ROBERT	41.07778	-76.18667	125	OPEN HOLE	6	0	DOMESTIC
129215		KOONS ROBERT	41.07750	-76.18556	125	OPEN HOLE	6	0	DOMESTIC
129216		HONSE GEORGE	41.10444	-76.17750	150	OPEN HOLE	5	0	DOMESTIC
129217		KRISANDA JOHN	41.10139	-76.17139	100	OPEN HOLE	6	0	DOMESTIC
129218		PETERS FRANK	41.10556	-76.18056	150	OPEN HOLE	6	0	DOMESTIC
129219		PETERS FRANK	41.10556	-76.18056	130	OPEN HOLE	8	10	DOMESTIC
129220		DALBERTO NICK	41.10694	-76.17444	150	OPEN HOLE	6	0	DOMESTIC
129221		FATUMA ROMAN	41.10778	-76.17417	125	OPEN HOLE	8	45	DOMESTIC
129222		SITLER LEMUEL	41.10917	-76.17778	100	OPEN HOLE	12	0	DOMESTIC
129223		BLOOM FRANK	41.11250	-76.19056	150	OPEN HOLE	8	0	DOMESTIC
129224		HOLLOWAY THOMAS	41.11306	-76.18361	125	OPEN HOLE	6	0	DOMESTIC
129225		BAER RUSSEL	41.10472	-76.15611	125	OPEN HOLE	10	0	DOMESTIC
129226		HIXON WILLIAM	41.11778	-76.16611	175	OPEN HOLE	6	0	DOMESTIC
129227		GRISBELL WM	41.12278	-76.16778	110	OPEN HOLE	10	0	DOMESTIC
129228	6/1/1988	GROOVER	41.15361	-76.15500	100	OPEN HOLE	40	20	DOMESTIC
129229	12/5/1988	WOOD V	41.15167	-76.15750	225	OPEN HOLE	7	0	DOMESTIC
129233	5/1/1983	BARRATTA D	41.13611	-76.07222	160	OPEN HOLE	15	10	DOMESTIC
129234	3/1/1983	WALCK J	41.15167	-76.01944	220	OPEN HOLE	20	25	DOMESTIC
129235	9/1/1982	PLEISCOTT H	41.13500	-76.01833	300	OPEN HOLE	8	30	DOMESTIC
129236	7/1/1982	DONINETZ L	41.14056	-76.04889	240	OPEN HOLE	9	15	DOMESTIC
129237	8/1/1981	MARTIN W	41.13444	-76.01611	345	OPEN HOLE	2	85	DOMESTIC
129238	11/1/1981	PELCZAR F	41.13778	-76.01861	300	OPEN HOLE	4	25	DOMESTIC
129239	8/1/1980	RITZ J	41.13222	-76.08500	200	OPEN HOLE	15	30	DOMESTIC
129240	3/1/1981	VANFOSSEN W	41.15306	-76.02333	280	OPEN HOLE	5	20	DOMESTIC
129241	8/1/1977	JOHNS D	41.13389	-76.04389	125	OPEN HOLE	20	30	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129242	6/1/1980	WASELUS P	41.13111	-76.04611	300	OPEN HOLE	3	35	DOMESTIC
129243	9/1/1980	BALLIET C	41.13111	-76.04833	200	OPEN HOLE	12	25	DOMESTIC
129244	9/1/1979	BALLIET J	41.14222	-76.04722	225	OPEN HOLE	12	50	DOMESTIC
129245	8/1/1979	DINGFIELD W	41.13056	-76.04722	200	OPEN HOLE	30	30	DOMESTIC
129246	9/1/1984	LEWANDOWSKI L	41.15056	-76.02056	300	OPEN HOLE	8	0	DOMESTIC
129247	5/1/1980	STEWART D	41.13222	-76.04722	285	OPEN HOLE	8	40	DOMESTIC
129248	9/21/1974	STEWART CARY	41.13472	-76.03528	195		8	0	DOMESTIC
129249	8/20/1975	FINE FRANK	41.15083	-76.00556	250		3	0	DOMESTIC
129250	8/2/1975	JOHNSON EARL	41.14778	-76.01889	150		20	0	DOMESTIC
129251	11/20/1978	SMITH MARK	41.13111	-76.04889	160		20	35	DOMESTIC
129252	9/1/1981	ECKROTE R	41.13444	-76.01778	315	OPEN HOLE	4	8	DOMESTIC
129253	9/1/1980	EVANS L	41.11944	-76.06722	185	OPEN HOLE	18	20	DOMESTIC
129254	10/1/1980	OGIN L	41.11972	-76.06722	210	OPEN HOLE	7	25	DOMESTIC
129255	11/1/1984	ANDES B	41.15139	-75.99000	250	OPEN HOLE	8	40	DOMESTIC
129256	7/1/1988	MATYAS ALICE	41.12833	-76.04694	500	OPEN HOLE	1	20	DOMESTIC
129257	8/1/1988	GALLAGHER JOE	41.16222	-75.98333	375	OPEN HOLE	2	30	DOMESTIC
129258	6/1/1988	SIEGAL	41.15500	-75.99333	250	OPEN HOLE	10	20	DOMESTIC
129259	3/1/1989	DOTZEL STEVE	41.14917	-76.00278	260	OPEN HOLE	10	25	DOMESTIC
129260	8/1/1988	SPAIDE LACORTE	41.14944	-76.02056	300	OPEN HOLE	3	20	DOMESTIC
129261	9/1/1988	KARPINSKI	41.15250	-76.00222	175	OPEN HOLE	20	40	DOMESTIC
129262	1/1/1989	HUNSINGER	41.14750	-76.00389	275	OPEN HOLE	5	35	DOMESTIC
129263	9/1/1988	CALLAHAN	41.14556	-76.00417	345	OPEN HOLE	3	25	DOMESTIC
129264	1/1/1989	MASKINAS	41.12833	-76.04556	300	OPEN HOLE	7	40	DOMESTIC
129265	7/1/1987	RINEHIMER RICH	41.15056	-76.01361	275	OPEN HOLE	4	0	DOMESTIC
129266	1/1/1988	CASMERSKI	41.13028	-76.04528	375	OPEN HOLE	3	0	DOMESTIC
129267	10/1/1987	CIESLA	41.13083	-76.04389	405	OPEN HOLE	2	0	DOMESTIC
129268	6/1/1987	HAPINSKI	41.12694	-76.04056	360	OPEN HOLE	3	0	DOMESTIC
129269	3/1/1988	HAYDT	41.12278	-76.04472	225	OPEN HOLE	8	0	DOMESTIC
129270	3/1/1987	SAFKO	41.12833	-76.04333	175	OPEN HOLE	20	25	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129271	6/1/1986	STRELECKI	41.14028	-76.05139	175	OPEN HOLE	12	30	DOMESTIC
129272	12/1/1986	RINEHIMER LESTER	41.13611	-76.03417	300	OPEN HOLE	1	20	DOMESTIC
129273	9/1/1986	OGIN CLARK	41.14472	-76.04361	275	OPEN HOLE	4	20	DOMESTIC
129274	11/1/1986	SPAIDE ED	41.14472	-76.04361	250	OPEN HOLE	10	20	DOMESTIC
129275	7/1/1986	DEETS A	41.13139	-76.04750	270	OPEN HOLE	4	30	DOMESTIC
129276	3/1/1986	YEAGER S	41.13389	-76.04278	175	OPEN HOLE	7	175	DOMESTIC
129277	9/1/1985	ORIN D	41.14556	-76.03389	160	OPEN HOLE	15	160	DOMESTIC
129278	9/1/1985	MAJESKI R	41.14500	-76.03361	300	OPEN HOLE	3	300	
129279	8/1/1985	GRUSHIEWCZ L	41.15222	-76.02083	275	OPEN HOLE	5	275	DOMESTIC
129280	8/1/1985	ELSENBAUGH T	41.16111	-76.00861	275	OPEN HOLE	5	275	DOMESTIC
129281	7/1/1985	WHITEBREAD	41.15056	-76.02222	190	OPEN HOLE	15	0	DOMESTIC
129282	9/1/1985	KOSLOSKI I	41.15194	-76.00444	405	OPEN HOLE	1	405	DOMESTIC
129283	8/1/1984	GRAZIONO C	41.16083	-76.00028	200	OPEN HOLE	10	35	DOMESTIC
129284	7/1/1984	BROWN	41.13028	-76.05000	225	OPEN HOLE	25	20	DOMESTIC
129285	9/1/1984	SEFRYN D	41.15167	-76.02083	250	OPEN HOLE	5	30	DOMESTIC
129286	5/1/1984	HOCKO	41.14750	-76.03722	275	OPEN HOLE	5	20	DOMESTIC
129287	8/1/1984	FALCHEK D	41.14917	-76.01694	175	OPEN HOLE	10	25	DOMESTIC
129288	2/1/1985	KAMINSKI J	41.15250	-76.00167	300	OPEN HOLE	3	50	DOMESTIC
129289	9/1/1984	SCWARTZ P	41.15083	-76.02389	375	OPEN HOLE	8	40	DOMESTIC
129290	6/1/1983	EVANCHO E	41.13861	-76.04833	197	OPEN HOLE	10	0	DOMESTIC
129291	9/1/1983	KAMIONKA A	41.13861	-76.06694	200	OPEN HOLE	7	20	DOMESTIC
129292	5/1/1984	DOTZEL N	41.14889	-76.01583	360	OPEN HOLE	2	25	DOMESTIC
129293	7/1/1988	RAMINSKI	41.14333	-76.00500	350	OPEN HOLE	4	30	DOMESTIC
129296	1/1/1970	HEISER HARRY J	41.15472	-75.97833	69	OPEN HOLE	10	12	DOMESTIC
129297	7/1/1979	VALLEY VIEW BUILDERS	41.00528	-76.02667	200	OPEN HOLE	25	40	DOMESTIC
129298	7/1/1979	VALLEY VIEW BUILDERS	41.00500	-76.02667	200	OPEN HOLE	25	30	DOMESTIC
129299	3/1/1981	KARCHNER L	41.00944	-76.01611	200	OPEN HOLE	25	30	DOMESTIC
129300	8/1/1981	THOMAS D	41.00500	-76.02639	140	OPEN HOLE	30	0	DOMESTIC
129301	8/1/1981	PRICE R	41.00167	-76.01667	380	OPEN HOLE	20	60	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129302	7/1/1981	KNELLY A	41.00222	-76.02778	200	OPEN HOLE	30	80	DOMESTIC
129303	9/1/1978	VALLEY VIEW BUILDERS	41.00083	-76.02778	300	OPEN HOLE	25	50	DOMESTIC
129304	6/17/1977	HAGAN THEODORE	41.01944	-76.05056	220		25	50	DOMESTIC
129305	7/2/1976	LUCHI CONTRACTORS	41.01806	-76.07111	155		22	30	DOMESTIC
129306	7/1/1976	YOUNG DENNIS	41.01778	-76.05944	155		20	40	DOMESTIC
129307	3/24/1976	LUCHI LARRY JR	41.01472	-76.07222	155		25	40	DOMESTIC
129308	11/13/1976	LUCHI MARK	41.01917	-76.05167	185		25	0	DOMESTIC
129309	1/25/1977	BOOCK THOMAS	41.00778	-76.12444	180		30	20	DOMESTIC
129310	2/1/1977	LUCHI MARK	41.01917	-76.05056	200		25	40	DOMESTIC
129311	2/16/1977	LUCHI CONTRACTORS	41.01722	-76.06861	200		20	40	DOMESTIC
129312	1/17/1977	LUCHI CONTRACTORS	41.01556	-76.06750	280		30	60	DOMESTIC
129313	2/18/1977	LUCHI CONTRACTORS	41.01556	-76.06778	200		25	40	DOMESTIC
129314	7/1/1976	LUCHI MARK	41.01722	-76.06056	140		22	40	DOMESTIC
129315	7/1/1976	LUCHI MARK	41.01778	-76.06056	146		22	40	DOMESTIC
129316	6/8/1977	H AND F CONSTRUCTION	41.02222	-76.06500	220		25	30	DOMESTIC
129317	6/7/1977	LUCHI BUILDERS	41.02111	-76.06611	200		25	20	DOMESTIC
129318	7/1/1977	BELUSKO PAUL	41.02556	-76.07056	220		25	30	DOMESTIC
129319	3/22/1977	LUCHI MARK	41.01944	-76.05056	240		25	60	DOMESTIC
129320	4/1/1977	KELSHAW DEL	41.02111	-76.04889	220		25	40	DOMESTIC
129321	7/1/1977	CIBULASH JOHN E	41.02556	-76.07028	220		25	30	DOMESTIC
129322	9/4/1976	GOULD AND SON	41.01806	-76.07111	165		25	20	DOMESTIC
129323	7/1/1978	LUCHI MARK	41.02111	-76.05167	300	OPEN HOLE	25	60	DOMESTIC
129324	4/1/1981	LUCHI CONTRACTORS	41.01667	-76.05056	160	OPEN HOLE	30	50	DOMESTIC
129325	8/1/1978	WEAVER D	41.02111	-76.06611	200	OPEN HOLE	25	60	DOMESTIC
129326	9/1/1978	KNORR C	41.01778	-76.06056	260	OPEN HOLE	25	40	DOMESTIC
129327	5/1/1978	LUCHI CONTRACTORS	41.01833	-76.07111	300	OPEN HOLE	25	60	DOMESTIC
129328	7/1/1978	HLIVIA J	41.02833	-76.08333	160	OPEN HOLE	25	40	DOMESTIC
129329	3/1/1978	FORNATARO A	41.00278	-76.03556	240	OPEN HOLE	25	40	DOMESTIC
129330	9/1/1977	BURGER R	41.02833	-76.08389	140		25	25	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129331	3/1/1978	LONZINSKI B	41.00250	-76.03667	220	OPEN HOLE	30	25	DOMESTIC
129332	3/21/1978	LUCHI BUILDERS	41.01583	-76.05306	340	OPEN HOLE	25	100	DOMESTIC
129333	8/1/1977	LUCHI BUILDERS	41.01556	-76.05306	363	OPEN HOLE	25	45	DOMESTIC
129334	8/1/1977	LUCHI BUILDERS	41.01667	-76.05056	300	OPEN HOLE	25	50	DOMESTIC
129335	5/1/1978	DEOM F	41.01889	-76.06056	200	OPEN HOLE	22	40	DOMESTIC
129336	12/1/1977	LUCHI BUILDERS	41.01722	-76.05917	360	OPEN HOLE	25	60	DOMESTIC
129337	9/1/1978	LUCHI CONTRACTORS	41.02722	-76.08722	140	OPEN HOLE	25	20	DOMESTIC
129338	9/1/1983	BLOSS E	41.00944	-76.04778	240	OPEN HOLE	20	70	DOMESTIC
129339	11/1/1978	FIDISHIN S	41.02889	-76.08417	180	OPEN HOLE	25	0	DOMESTIC
129340	1/1/1978	LUCHI BUILDERS	41.02056	-76.05278	360	OPEN HOLE	25	50	DOMESTIC
129341	9/1/1977	SHARPE R	41.02000	-76.04833	220	OPEN HOLE	30	50	DOMESTIC
129342	5/1/1978	LUCHI MARK	41.01944	-76.05222	300	OPEN HOLE	20	70	DOMESTIC
129343	9/7/1979	STANZOLIA	40.97278	-76.07278	210		15	0	DOMESTIC
129344	9/1/1978	KOHUT MICHEL	40.97278	-76.07389	290		10	10	DOMESTIC
129345	9/1/1978	KOHUT HELLEN	40.97222	-76.07333	280		10	30	DOMESTIC
129346	3/21/1976	HILMAR ENTERPRIZES	40.99861	-76.10639	170		20	40	DOMESTIC
129347	2/1/1977	BROTOSKY FRANCIS	40.97000	-76.09444	140		30	15	DOMESTIC
129348	5/13/1977	GOULD JOHN	40.99833	-76.07111	364		25	30	DOMESTIC
129349	6/1/1978	STISH G	40.98778	-76.08417	160	OPEN HOLE	25	20	DOMESTIC
129350	2/1/1978	FALVELLO A	40.99778	-76.05000	220	OPEN HOLE	25	45	DOMESTIC
129351	8/1/1978	GIOVANIA	40.99833	-76.10444	200	OPEN HOLE	20	80	DOMESTIC
129352	5/1/1979	LESCOTT INC	40.99833	-76.10611	125	OPEN HOLE	8	0	DOMESTIC
129353	7/1/1978	GIOVANIA	40.99889	-76.10611	240	OPEN HOLE	25	50	DOMESTIC
129354	3/1/1978	KOHLER G	40.97333	-76.06806	220	OPEN HOLE	25	40	DOMESTIC
129355	8/1/1978	GIOVANNI ASSOCIATES	40.99861	-76.10750	200	OPEN HOLE	25	30	DOMESTIC
129356	8/1/1978	GIOVANNI ASSOCIATES	40.99861	-76.10778	200	OPEN HOLE	25	30	DOMESTIC
129357	8/22/1983	HOLY ANNUN MONASTERY	40.99639	-76.11389	200	OPEN HOLE	15	70	INSTITUTIONAL
129358	10/1/1975	PETROVICH TED	41.00583	-76.12111	185		20	30	DOMESTIC
129359	12/1/1988	BEST MART	40.98722	-76.06556	200	OPEN HOLE	12	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129360	9/1/1988	COOK	40.98194	-76.05083	300	OPEN HOLE	10	35	DOMESTIC
129361	11/1/1988	SENAPE A	40.99083	-76.03250	280	OPEN HOLE	25	70	DOMESTIC
129362	12/1/1988	SCATTON	41.02222	-76.06389	240	OPEN HOLE	20	50	DOMESTIC
129363	5/1/1988	PIMBLE T	41.03250	-76.07611	380	OPEN HOLE	10	80	DOMESTIC
129364	9/1/1988	PORECA R	40.97500	-76.10056	380	OPEN HOLE	12	100	DOMESTIC
129365	3/1/1988	FOAMANOWSKI S	41.10917	-76.13194	300	OPEN HOLE	15	45	DOMESTIC
129366	9/1/1987	ZOLA	40.99500	-76.03389	200	OPEN HOLE	15	60	DOMESTIC
129367	10/1/1987	LUCHI	41.01694	-76.07500	180	OPEN HOLE	18	26	DOMESTIC
129368	11/1/1987	LUCHI	41.01611	-76.07472	500	OPEN HOLE	8	75	DOMESTIC
129369	11/1/1987	HORNBUCKLE K	40.99222	-76.06417	160	OPEN HOLE	20	27	DOMESTIC
129370	5/1/1987	LOCHI S	41.01444	-76.06861	180		15	60	DOMESTIC
129371	8/1/1986	LUCHI CONSTRUCTORS	41.01333	-76.07500	200	OPEN HOLE	15	35	DOMESTIC
129372	9/1/1987	SCATTON A	41.01944	-76.05306	200	OPEN HOLE	12	4	DOMESTIC
129373	6/1/1986	ALLEGRETTO T	41.02028	-76.08972	160	OPEN HOLE	20	20	DOMESTIC
129374	4/30/1986	BAZIER J	41.00139	-76.05250	240	OPEN HOLE	15	40	DOMESTIC
129375	7/1/1985	METZGER J	40.99694	-76.08889	121	OPEN HOLE	12	26	DOMESTIC
129399	1/1/1969	SIPENSKI RCHRD	41.02417	-76.08167	235	OPEN HOLE	20	160	DOMESTIC
129400	1/1/1968	LANDIS TOM	40.98472	-76.04000	133	OPEN HOLE	20	0	DOMESTIC
129401	1/1/1968	FOLDES JULIUS	40.99694	-76.04556	158	OPEN HOLE	27	0	DOMESTIC
129402	1/1/1967	SUGARLOAF GOLF	40.99417	-76.03806	110	OPEN HOLE	20	60	DOMESTIC
129403	1/1/1966	JAMES WALTER	41.05806	-75.95306	118	OPEN HOLE	15	40	DOMESTIC
129404	1/1/1966	ZIONS JOHN	41.02722	-76.08389	102	OPEN HOLE	8	40	DOMESTIC
129405	1/1/1969	SUGARLOAF GOLF	40.98667	-76.03778	158	OPEN HOLE	4	0	DOMESTIC
129406	1/1/1969	SUGARLOAF GOLF	40.98667	-76.03778	100	OPEN HOLE	8	0	DOMESTIC
129407	1/1/1971	HOCH WM	41.01083	-75.95306	204	OPEN HOLE	6	90	DOMESTIC
129408	1/1/1971	HOUSEKNECHT D	41.00083	-76.07750	256	OPEN HOLE	7	94	DOMESTIC
129409	1/1/1970	KNELLY PAUL	40.98972	-76.04722	108	OPEN HOLE	9	30	DOMESTIC
129410	1/1/1969	KNELLY WILLIS	40.98639	-76.03833	130	OPEN HOLE	12	60	DOMESTIC
129411	1/1/1970	ZILLIG GEO	41.01250	-76.04278	150	OPEN HOLE	6	50	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129412	1/1/1970	BILLHIMER EDWRD	41.02250	-76.08444	234	OPEN HOLE	6	109	DOMESTIC
129413	1/1/1970	WHEELER DON	40.99167	-76.03139	218	OPEN HOLE	6	100	DOMESTIC
129414	11/1/1980	DAVENPORT R	41.19944	-76.14278	300		4	10	DOMESTIC
129415	3/16/1977	SYLVANIA MASONIC LDG	41.19889	-76.14278	123		8	8	PUBLIC SUPPLY
129416	2/1/1989	TORKOWSKI F	41.22333	-76.19000	600	OPEN HOLE	3	0	DOMESTIC
129417	2/1/1989	TORKOWSKI F	41.22472	-76.18889	500	OPEN HOLE	10	0	DOMESTIC
129418	8/1/1987	MARTZ JERRY	41.23611	-76.15361	25	OPEN HOLE	5	65	DOMESTIC
129419	11/22/1988	ALOSI A	41.21528	-76.14778	595	OPEN HOLE	1	0	DOMESTIC
129420	9/1/1988	BUTCHO H	41.19917	-76.17556	320	OPEN HOLE	1	0	DOMESTIC
129421	10/1/1983	WARD R	41.20056	-76.16750	400	OPEN HOLE	5	60	DOMESTIC
129422	10/1/1983	GLACAMMARA T	41.19833	-76.17667	510	OPEN HOLE	1	60	DOMESTIC
129423	11/23/1984	KALINOWSKI B	41.19778	-76.19944	300		4	0	
129424	5/11/1985	HUFFMAN D	41.19944	-76.13417	100	OPEN HOLE	30	0	DOMESTIC
129425	1/25/1987	WEST D	41.18778	-76.12556	300	OPEN HOLE	12	0	DOMESTIC
129426	8/1/1988	KRUSHKA JOSEPHINE	41.18722	-76.16833	135	OPEN HOLE	14	40	DOMESTIC
129427	10/21/1987	STRAUSSER CONST.	41.19111	-76.14694	225	OPEN HOLE	35	0	DOMESTIC
129428	10/1/1985	EDWARDS G	41.22861	-76.16222	303	OPEN HOLE	6	0	DOMESTIC
129429	7/1/1987	KUC GLOVIA	41.21694	-76.17472	160	OPEN HOLE	30	30	DOMESTIC
129435	1/1/1969	CROSS RONALD	41.17833	-76.18333	120	OPEN HOLE	10	73	DOMESTIC
129436	1/1/1966	LEUT WM	41.19889	-76.17778	180	OPEN HOLE	3	40	DOMESTIC
129437	1/1/1966	BALCHUM STANLEY	41.16889	-76.16528	100	OPEN HOLE	7	30	DOMESTIC
129438	1/1/1966	HARRISON A	41.20556	-76.20306	196	OPEN HOLE	5	0	DOMESTIC
129439	1/1/1967	HARRISON FRED	41.19417	-76.17361	145	OPEN HOLE	35	21	DOMESTIC
129440	1/1/1967	MCMICHAEL KEITH	41.21667	-76.15056	100	OPEN HOLE	15	30	DOMESTIC
129441	1/1/1967	GENSEL DONALD	41.18556	-76.17028	210	OPEN HOLE	100	20	DOMESTIC
129442	1/1/1967	LIPKA STEVEN	41.22833	-76.16000	123	OPEN HOLE	20	60	DOMESTIC
129443	1/1/1968	KIVLER IRENE	41.18500	-76.16889	175	OPEN HOLE	20	25	DOMESTIC
129444	1/1/1968	TRUCHON EUGENIA	41.19917	-76.16417	155	OPEN HOLE	3	20	DOMESTIC
129445	1/1/1968	GENSEL DANIEL	41.18583	-76.16139	180	OPEN HOLE	4	35	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129446	2/24/1976	LACHETTE JOSEPH	41.06000	-75.77778	125		60	0	DOMESTIC
129447	10/1/1985	CORAZZO L	41.06250	-75.78000	250	OPEN HOLE	8	250	DOMESTIC
129449	1/1/1968	SHRASKY JOHNS	41.05028	-75.77722	155	OPEN HOLE	9	50	DOMESTIC
129450	5/1/1982	MILLEN R	41.13250	-75.91500	175	OPEN HOLE	5	15	DOMESTIC
129451	12/1/1981	CEBULLA M	41.12083	-75.94889	300	OPEN HOLE	4	35	DOMESTIC
129452	1/1/1988	SAMO	41.12056	-75.94167	250	OPEN HOLE	10	0	DOMESTIC
129453	10/1/1986	BARRY FLORAL SHOP	41.12056	-75.93972	200	OPEN HOLE	20	20	DOMESTIC
129454	8/1/1988	WILLIAMS RON	41.10972	-75.94444	275	OPEN HOLE	5	40	DOMESTIC
129455	7/1/1985	KEMMEREN K	41.11056	-75.94556	345	OPEN HOLE	30	345	DOMESTIC
129456	8/1/1988	CERTAIN TEED	41.12750	-75.87972	390	OPEN HOLE	60	30	INDUSTRIAL
129457	2/1/1989	WHITEBREAD	41.10889	-75.94333	375	OPEN HOLE	2	35	DOMESTIC
129458	9/1/1988	BEHEZAK	41.09778	-75.92972	250	OPEN HOLE	12	20	DOMESTIC
129459	1/1/1989	STRUBLE	41.12444	-75.93639	275	OPEN HOLE	5	30	DOMESTIC
129460	1/1/1989	KENTHACK LOUISE	41.10111	-75.94361	250	OPEN HOLE	5	30	DOMESTIC
129461	1/1/1989	POHOLEK	41.12333	-75.93000	300	OPEN HOLE	10	35	DOMESTIC
129462	2/1/1988	SAMO	41.12056	-75.94250	250	OPEN HOLE	10	40	DOMESTIC
129463	3/1/1987	MCDOWELL	41.13167	-75.95861	190	OPEN HOLE	25	40	DOMESTIC
129464	7/1/1986	GOLDEN	41.12278	-75.95833	225	OPEN HOLE	10	35	DOMESTIC
129465	9/1/1984	AYRES A	41.12167	-75.89722	300	OPEN HOLE	3	40	DOMESTIC
129466	6/1/1983	EUSTICE D	41.10111	-75.94278	225	OPEN HOLE	30	35	DOMESTIC
129467	1/1/1984	KENTHOCK T	41.10500	-75.94083	250	OPEN HOLE	6	25	DOMESTIC
129468	6/1/1983	EYERMAN P	41.11861	-75.95583	300	OPEN HOLE	4	20	DOMESTIC
129469	3/1/1989	ATIVILLA	41.14944	-75.95833	225	OPEN HOLE	12	20	DOMESTIC
129470	9/1/1984	DIBITIS	41.12139	-75.94028	195	OPEN HOLE	8	20	DOMESTIC
129474	1/1/1967	BOCCI	41.13806	-75.91194	200	OPEN HOLE	35	24	DOMESTIC
129475	1/1/1967	WYCHOCK JOS	41.13944	-75.91194	201	OPEN HOLE	40	20	DOMESTIC
129842	1/1/1971	LUNGER LYNN	41.24139	-76.59417	45	OPEN HOLE	6	13	DOMESTIC
129844	1/1/1967	JENZANE JOS J	41.26278	-76.58250	52	OTHER	50	7	DOMESTIC
129845	1/1/1969	SMITH CHAS	41.19861	-76.60806	200	OPEN HOLE	4	90	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
129925	11/1/1982	JORDAN TWP SPVRS	41.24833	-76.52139	73	OPEN HOLE	12	0	
129926	3/30/1976	REIRCHEL J	41.24306	-76.50083	175	OPEN HOLE	6	0	DOMESTIC
129927	1/1/1970	NEWMAN HERBERT	41.18611	-76.56000	139	OPEN HOLE	15	50	DOMESTIC
129928	1/1/1966	CHARLES BRUCE	41.23667	-76.50333	115	OPEN HOLE	7	60	DOMESTIC
129929	1/1/1966	WOODSIDE CARL	41.24917	-76.53250	130	OPEN HOLE	5	55	DOMESTIC
133256	1/1/1966	SMITH CONSTRUCT	40.96861	-76.52083	60	OPEN HOLE	2	3	INDUSTRIAL
133257	1/1/1967	CLEWELL VENDING	40.96417	-76.54472	88	OPEN HOLE	10	8	DOMESTIC
133258	3/1/1984	TYLER R	40.95944	-76.60611	223	OPEN HOLE	30	0	DOMESTIC
133259		T R W	40.95583	-76.60972	200	OPEN HOLE	450	0	INDUSTRIAL
133260	8/1/1987	WILLIAMS RICK	41.09722	-76.63083	140	OPEN HOLE	6	140	STOCK
133268	4/1/1985	WATSON A	41.11500	-76.63194	130	OPEN HOLE	15	0	DOMESTIC
133269	7/1/1981	RYAN B	41.11306	-76.62972	270	OPEN HOLE	2	18	DOMESTIC
133272		SPRINGER E	41.09833	-76.63389	55		10	0	DOMESTIC
133281	1/1/1966	JIMMY HOLDREN	41.10833	-76.63472	225	OPEN HOLE	2	5	DOMESTIC
133283	1/1/1966	LAUBACH JAMES	41.11722	-76.63333	70	OPEN HOLE	30	20	DOMESTIC
133284	1/1/1966	HOLDEN GEORGE A	41.11667	-76.63056	170	OPEN HOLE	20	25	DOMESTIC
133286	1/1/1966	DEWALD ALLEN	41.11806	-76.63056	415	OPEN HOLE	0	15	DOMESTIC
133287	1/1/1967	DEWALD ALLEN	41.11944	-76.62500	130	OPEN HOLE	2	8	DOMESTIC
133288	1/1/1967	DEWALD ALLEN	41.11667	-76.61806	170	OPEN HOLE	0	0	DOMESTIC
133289	1/1/1966	DEWALD ALLEN	41.10833	-76.62083	215	OPEN HOLE	8	20	DOMESTIC
133292	1/1/1967	MCMICHAEL DAVID	41.09861	-76.64306	415	OPEN HOLE	2	3	DOMESTIC
133295	1/1/1968	HOLDEN GEORGE A	41.11639	-76.63056	155	OPEN HOLE	5	6	DOMESTIC
133297	1/1/1968	SOMMERS DALE	41.11444	-76.63500	304	OPEN HOLE	1	25	DOMESTIC
133298	1/1/1968	MERRELL DAVID	41.10417	-76.63167	157	SCREEN	6	18	DOMESTIC
133307	12/1/1984	BLOOM TRACTOR INC	40.96917	-76.54500	60	OPEN HOLE	50	0	INDUSTRIAL
133308	6/1/1986	UNKNOWN	40.96306	-76.55944	160	OPEN HOLE	0	0	PUBLIC SUPPLY
133309	6/1/1986	UNKNOWN	40.96250	-76.55944	260	OPEN HOLE	7	40	PUBLIC SUPPLY
133310	6/1/1986	UNKNOWN	40.96194	-76.55944	100	OPEN HOLE	20	18	PUBLIC SUPPLY
133313	1/1/1966	ASHENFELDER E	40.96111	-76.50833	115	SCREEN	13	15	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
133314	1/1/1967	ADAMS CHESTER	40.96389	-76.53750	165	SCREEN	20	60	DOMESTIC
133315	1/1/1968	BROWN CATERING	40.95556	-76.54722	390	SCREEN	60	115	DOMESTIC
133316	1/1/1968	PENNA SPCA	40.96528	-76.55556	75	SCREEN	40	35	DOMESTIC
133317	1/1/1966	DERR DOYAL	40.96278	-76.53806	202	OPEN HOLE	2	102	DOMESTIC
133318		LINKER WILLIAM	40.96222	-76.56306	123	OPEN HOLE	8	0	DOMESTIC
133319		ROWAN HOMES	40.97167	-76.54000	125	OPEN HOLE	8	0	DOMESTIC
133320		MCCAFFERY ROBT	40.97167	-76.54000	115	OPEN HOLE	50	0	DOMESTIC
133322	3/1/1988	SMITH J	41.04000	-76.61694	207	OPEN HOLE	50	60	DOMESTIC
133326	7/1/1984	DAVIS H	41.05917	-76.60167	60	OPEN HOLE	50	14	DOMESTIC
133328	3/1/1989		41.08194	-76.63194	498	OPEN HOLE	0	8	
133329	12/1/1980	SHELTOR L	41.08028	-76.64111	300	OPEN HOLE	1	285	DOMESTIC
133330	10/1/1980	EVERETT F	41.02722	-76.62444	497	OPEN HOLE	1	0	DOMESTIC
133338	1/1/1967	MOSER FRED	41.04833	-76.63889	50	SCREEN	15	5	DOMESTIC
133343	1/1/1969	WILSON MARY J	41.02889	-76.60556	60	SCREEN	30	2	DOMESTIC
133346	1/1/1966	BAKER RICHARD	41.04528	-76.62972	84	OPEN HOLE	6	16	DOMESTIC
133347		BROWN SANFORD	41.08111	-76.62361	273	OPEN HOLE	4	0	DOMESTIC
133434	3/1/1989	SHEPPERGON FRED	40.94361	-76.59722	92	OPEN HOLE	20	12	DOMESTIC
133436	2/1/1985	ROBBINS S	40.94222	-76.58861	43	OPEN HOLE	6	33	DOMESTIC
133443	1/1/1966	SNYDER J	40.96417	-76.58056	112	OPEN HOLE	8	30	DOMESTIC
133444	1/1/1966	HULSIZER D	40.95667	-76.57833	124	OPEN HOLE	9	0	DOMESTIC
133445	1/1/1966	FROSTY VALLEY	40.97500	-76.56944	213	OPEN HOLE	100	0	DOMESTIC
133446	1/1/1966	HAGENBUCK J	40.96417	-76.60056	250	OPEN HOLE	20	140	DOMESTIC
133447	1/1/1966	THOS H ROSSCONT	40.97806	-76.58222	215	OPEN HOLE	5	60	DOMESTIC
133448	1/1/1966	JOHN HUBICKI	40.96556	-76.57333	255	OPEN HOLE	4	20	DOMESTIC
133449	1/1/1966	CHARLES A CONFE	40.96056	-76.58806	190	OPEN HOLE	3	66	DOMESTIC
133450	1/1/1966	RUSSELL WEAVER	40.96139	-76.58333	190	OPEN HOLE	7	50	DOMESTIC
133451	1/1/1966	BLUE	40.96278	-76.56778	100	OPEN HOLE	6	8	DOMESTIC
133453	1/1/1967	GLENN H	40.97806	-76.61583	205	OPEN HOLE	50	55	DOMESTIC
133454	1/1/1967	ALBECK K	40.96333	-76.57917	216	OPEN HOLE	7	49	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
133455		BEBMEK R	40.94556	-76.58944	97	OPEN HOLE	10	0	DOMESTIC
133456	1/1/1967	KRUM J	40.96361	-76.58333	88	OPEN HOLE	30	57	DOMESTIC
133457	1/1/1967	HUBICKI J	40.96583	-76.60639	115	OPEN HOLE	5	57	DOMESTIC
133458	1/1/1967	RILEY L	40.95861	-76.60667	95	OPEN HOLE	15	40	DOMESTIC
133459	1/1/1968	HUBICKI J	40.96806	-76.60444	205	OPEN HOLE	20	30	DOMESTIC
133460	1/1/1968	MYRON FENSTERMA	40.96194	-76.61139	80	OPEN HOLE	6	28	DOMESTIC
133461	1/1/1968	HENRY H	40.97000	-76.57250	215	OPEN HOLE	12	50	DOMESTIC
133462	1/1/1968	SHULTZ L	40.99778	-76.58778	70	OPEN HOLE	30	0	DOMESTIC
133463	1/1/1968	GLEN HAGENBUCH	40.98028	-76.61917	210	OPEN HOLE	20	100	DOMESTIC
133464	1/1/1968	SEVIDGE D	40.96139	-76.56639	122	OPEN HOLE	40	57	DOMESTIC
133465	1/1/1967	ROSELON YARNS	40.95611	-76.60861	308	OPEN HOLE	380	30	INDUSTRIAL
133467	1/1/1967	COUSART HORACE	40.96472	-76.59333	90	OPEN HOLE	24	36	DOMESTIC
133469		MAHONING TWP AU	40.96694	-76.57833	332	OPEN HOLE	50	47	PUBLIC SUPPLY
133470		MAHONING TWP AU	40.96694	-76.57833	328	OPEN HOLE	200	46	PUBLIC SUPPLY
133471		BREEN JAMES DR	40.97389	-76.58111	531	OPEN HOLE	40	40	DOMESTIC
133474	7/1/1987	NEELY JAMES	40.93472	-76.52806	398	OPEN HOLE	7	80	DOMESTIC
133475		BRADY B	40.91944	-76.54611	202	OPEN HOLE	4	0	DOMESTIC
133476		HENNESSY JAMES	40.90667	-76.56528	75	OPEN HOLE	6	0	DOMESTIC
133483	8/1/1987	ASHENFELDER E	41.00611	-76.57667	187	OPEN HOLE	20	92	DOMESTIC
133488	7/1/1987	MARTZ NEAL	41.01583	-76.61000	172	OPEN HOLE	15	126	DOMESTIC
133490	6/1/1986	BUCKLEY D	40.99917	-76.61528	133	OPEN HOLE	5	19	DOMESTIC
133491	8/1/1986	WYDRA D	40.98722	-76.62444	120	OPEN HOLE	7	9	DOMESTIC
133493	9/1/1986	ALBERTSON H	40.99361	-76.62361	105	OPEN HOLE	20	45	DOMESTIC
133498	5/1/1985	KRIFHNAN D	40.99250	-76.59417	323	OPEN HOLE	40	190	DOMESTIC
133499	3/1/1985	KOSER T	41.01833	-76.60861	53	OPEN HOLE	18	2	DOMESTIC
133500	4/1/1985	SHOWALTER S	40.99556	-76.62222	83	OPEN HOLE	20	13	DOMESTIC
133504	9/1/1983	DAVIS T	40.99500	-76.62056	123		30	26	DOMESTIC
133505	4/1/1983	DEGUZIS T	40.98833	-76.60889	247	OPEN HOLE	60	45	DOMESTIC
133506	7/1/1981	MONTOUR A&D HOME	40.98889	-76.62389	154	OPEN HOLE	15	71	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
133507	7/1/1981	ALBERTSON	40.99056	-76.62250	100	OPEN HOLE	35	44	DOMESTIC
133510	8/1/1983	AUTEN H	40.99056	-76.62222	130	OPEN HOLE	18	60	DOMESTIC
133512	9/1/1982	RATCHFORD T	41.00639	-76.60611	148	OPEN HOLE	15	8	DOMESTIC
133522	1/1/1966	REED CONSTRUCT.	41.00194	-76.62361	112	OPEN HOLE	8	60	DOMESTIC
133523	1/1/1966	DEGREEN H	41.00194	-76.62361	135	OPEN HOLE	15	27	DOMESTIC
133524	1/1/1966	BRETCH J	40.99861	-76.59667	75	OPEN HOLE	5	25	DOMESTIC
133525	1/1/1966	BUCK C	40.99722	-76.59278	70	OPEN HOLE	20	20	DOMESTIC
133528	1/1/1966	ASHTON L	40.98222	-76.61250	195	OPEN HOLE	6	40	DOMESTIC
133529	1/1/1966	FOX C	41.00389	-76.62250	60	OPEN HOLE	6	15	DOMESTIC
133535	1/1/1967	TANNER H J	41.00333	-76.61972	95	OPEN HOLE	8	30	DOMESTIC
133536	1/1/1967	STRAUSSER	41.00250	-76.61778	135	OPEN HOLE	8	25	DOMESTIC
133537	1/1/1967	YOUNG H	40.98194	-76.60667	70	OOPEN HOLE	20	35	DOMMESTIC
133539	1/1/1967	DITTY D	41.00083	-76.61667	70	OPEN HOLE	10	30	DOMESTIC
133541	1/1/1968	HESS J	41.00139	-76.62861	125	OPEN HOLE	2	0	DOMESTIC
133542	1/1/1968	SMELTZ D	41.00194	-76.61278	215	OPEN HOLE	4	30	DOMESTIC
133548	1/1/1969	ROBERTS WM L	41.02278	-76.60583	132	OPEN HOLE	50	30	DOMESTIC
133550		FOUST ROBERT	41.00278	-76.61056	298	OPEN HOLE	25	0	DOMESTIC
133551		KLINGER DAVID	41.00167	-76.61167	173	OPEN HOLE	12	0	DOMESTIC
133552		ETNOYER WILLIAM	41.01694	-76.62389	373	OPEN HOLE	2	0	DOMESTIC
133553		HAMMER JAY	41.00639	-76.60944	172	OPEN HOLE	6	0	DOMESTIC
133554		PELOWIC ALBERT	41.00500	-76.61000	148	OPEN HOLE	7	0	DOMESTIC
133559		BURKS JOHN	40.99972	-76.59389	155	OPEN HOLE	0	0	DOMESTIC
133560		REED KEN	41.00667	-76.60167	135	OPEN HOLE	4	40	DOMESTIC
133561		PELOWIC ANTHONY	41.00750	-76.60972	298	OPEN HOLE	6	0	DOMESTIC
133562		WRIGHT ERNEST	41.00472	-76.62667	123	OPEN HOLE	15	0	DOMESTIC
133563		SCHRING ROBERT	41.00000	-76.61528	106	OPEN HOLE	9	15	DOMESTIC
133564		SNYDER KENNETH	41.00000	-76.61306	103	OPEN HOLE	30	12	DOMESTIC
133565		PROSSEDA AL	41.00500	-76.61722	123	OPEN HOLE	12	0	DOMESTIC
133566		ROMAN HOMES	41.00389	-76.61500	125		10	0	INDUSTRIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
133567		ROBT HARRIS DEV	41.00167	-76.61806	348	OPEN HOLE	2	0	DOMESTIC
133568		HARTMAN MILTON	40.99028	-76.58639	175	OPEN HOLE	5	0	DOMESTIC
133570		GERTON KENNETH	41.00111	-76.56639	110	OPEN HOLE	25	61	DOMESTIC
133581	8/1/1985	BURNS J	41.00333	-76.57833	150	OPEN HOLE	20	55	DOMESTIC
133582	1/1/1968	MAUSTELLER MIKE	41.03472	-76.56528	153	OPEN HOLE	5	40	DOMESTIC
133583	1/1/1968	PRINGLE RICHARD	40.99306	-76.56806	215	OPEN HOLE	2	12	DOMESTIC
133584	1/1/1966	STYER LEONARD	41.00083	-76.59000	285	OPEN HOLE	15	108	DOMESTIC
133585		HESS JOE	41.04500	-76.60833	195	OPEN HOLE	10	40	DOMESTIC
133586		DOMEROCKI JOE	41.04000	-76.60833	215	OPEN HOLE	2	75	DOMESTIC
133587		GOLDER CARL	41.04000	-76.60833	175	OPEN HOLE	3	30	DOMESTIC
133868	11/1/1985	BRESSI M	40.83417	-76.50056	323	OPEN HOLE	7	16	DOMESTIC
133873	1/1/1967	JEPKO STEVE	40.87194	-76.51889	295	OPEN HOLE	3	0	DOMESTIC
133874	1/1/1967	MARIOTTI JOE	40.87750	-76.50806	71	OPEN HOLE	10	0	DOMESTIC
133880	1/1/1968	JEPKO STEVE	40.87417	-76.52056	255	OPEN HOLE	8	0	DOMESTIC
133882	1/1/1969	EISENHAUER WM	40.84861	-76.51028	109	OPEN HOLE	25	0	DOMESTIC
133885	1/1/1970	BURGER GEORGE	40.87306	-76.53222	115	OTHER	10	0	DOMESTIC
133886		ALL ST'S CMTRY	40.84222	-76.51528	125	OPEN HOLE	20	0	PUBLIC SUPPLY
133986	1/1/1967	FASSANO STEPHEN	40.91806	-76.56833	183	OPEN HOLE	3	0	DOMESTIC
133987	1/1/1967	BROUSE WAYNE	40.93139	-76.59444	61	OPEN HOLE	12	25	DOMESTIC
133995	1/1/1968	GEORGE CHARLES	40.89667	-76.56167	100	OPEN HOLE	30	0	DOMESTIC
133998	1/1/1970	HURST JOHN	40.92056	-76.58389	112	OPEN HOLE	25	0	DOMESTIC
138687	2/23/1988	BETHLEHEM MINES CORP	40.80278	-75.95250	400	OPEN HOLE	0	260	
138688	12/1/1987	PATWIL	40.79500	-75.93972	247	OPEN HOLE	4	207	DOMESTIC
138689	5/1/1987	KUPCHINSKY D	40.80250	-75.92139	160	OPEN HOLE	20	46	DOMESTIC
138698	1/1/1970	WALTERS BEN	40.78778	-75.95611	94	OPEN HOLE	10	25	DOMESTIC
138699	1/1/1966	REICHELDERFER	40.79333	-75.94306	122		20	60	DOMESTIC
138700	1/1/1967	MCGRADY JOS	40.79306	-75.94556	125	OPEN HOLE	20	60	DOMESTIC
138701	1/1/1970	TRUDICH JOHN	40.79889	-75.92889	140	OPEN HOLE	15	40	DOMESTIC
138702	3/1/1987	BOLINSKY F	40.78194	-76.24556	250	OPEN HOLE	0	165	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
138713	1/1/1968	PAPEIKA ALBERT	40.78750	-76.23917	100	OPEN HOLE	30	30	DOMESTIC
138714	1/1/1969	BOLINSKY LEONRD	40.77944	-76.23583	95	OPEN HOLE	30	75	DOMESTIC
138715	1/1/1969	CHOWANSKY JOHN	40.77889	-76.23639	153	OPEN HOLE	10	130	DOMESTIC
138717		BOLINSKY JOSEPH	40.78500	-76.23500	120	OPEN HOLE	20	27	DOMESTIC
138719	1/1/1968	ARTCRAFT BLDRS	40.78333	-76.19722	71	OPEN HOLE	60	12	DOMESTIC
138751	2/1/1989	LEATHERMAN B	40.73806	-76.10361	129		17	65	DOMESTIC
138767	3/1/1987	SINCLAIR JOE	40.77306	-76.32222	200	OPEN HOLE	18	25	DOMESTIC
138768	2/1/1987	MINNIE JOE	40.75139	-76.33056	200	OPEN HOLE	10	150	DOMESTIC
138769	8/1/1989	STACLER ED	40.75389	-76.32861	175	OPEN HOLE	50	65	DOMESTIC
138770	7/1/1989	SHOOP JOE	40.75472	-76.32722	200	OPEN HOLE	15	70	DOMESTIC
138771	2/1/1989	SHOOP JOE	40.75583	-76.32194	200	OPEN HOLE	15	0	DOMESTIC
138772	1/1/1989	STUDLICK JOE	40.77861	-76.26389	300	OPEN HOLE	0	0	DOMESTIC
138773	9/1/1988	HUGHES M	40.76583	-76.37778	175	OPEN HOLE	15	0	DOMESTIC
138774	3/1/1987	WOOD BRAD	40.77444	-76.37194	285	OPEN HOLE	75	150	DOMESTIC
138775	9/1/1987	SNYDER GARY	40.76472	-76.29750	250	OPEN HOLE	15	0	DOMESTIC
138776	4/1/1988	REICHWEIN ROBERT	40.76833	-76.29000	200	OPEN HOLE	30	0	DOMESTIC
138777	3/1/1988	PRICE BILL	40.75944	-76.30389	200	OPEN HOLE	25	0	DOMESTIC
138789	1/1/1968	RICHWEIN JAMES	40.76611	-76.32722	250	OPEN HOLE	3	0	DOMESTIC
138790	1/1/1968	NOLTE ROBERT	40.75972	-76.30944	150	OPEN HOLE	7	15	DOMESTIC
138791	1/1/1968	CRESSWELL HARV	40.77139	-76.29500	124	OPEN HOLE	30	90	DOMESTIC
138792	1/1/1968	CRESSWELL HARV	40.77194	-76.29556	128	OPEN HOLE	6	30	DOMESTIC
138793	1/1/1969	BRILL JOHN	40.76056	-76.30472	74		30	0	DOMESTIC
138794		BOYER MALCOLM	40.77111	-76.29667	242	OPEN HOLE	3	0	DOMESTIC
138796	1/1/1968	CRESSWELL H	40.77083	-76.29361	126	OPEN HOLE	6	55	DOMESTIC
138797	1/1/1970	RAUDENBUSL C	40.76278	-76.34139	172		20	0	DOMESTIC
138802		CHIDDAR ROBERT	40.75111	-76.33556	161	OPEN HOLE	15	85	DOMESTIC
138803		BARAN ANTHONY	40.77000	-76.32417	102	OPEN HOLE	30	10	DOMESTIC
138810	7/1/1986	PASCAVAGE D	40.84556	-76.06056	180	OPEN HOLE	20	70	DOMESTIC
138811	9/1/1987	FEGLEY	40.85361	-76.03917	375	OPEN HOLE	5	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
138812	9/1/1987	BENNETT JAMES	40.85444	-76.03722	200	OPEN HOLE	20	0	DOMESTIC
138813	11/14/1989	NEVEROSKY WILLIAM	40.83528	-76.05389	250	OPEN HOLE	6	0	DOMESTIC
138814	9/1/1982	CARBONITE FILTER CO	40.84056	-76.07306	600	OPEN HOLE	125	60	DOMESTIC
138815	2/1/1981	FIBERITE CORP	40.83833	-76.07056	575	OPEN HOLE	45	30	DOMESTIC
138816	11/1/1980	YANASHIK G	40.86861	-76.02806	200	OPEN HOLE	20	52	DOMESTIC
138819		FEGLEY S PAUL	40.85111	-76.04417	142	OPEN HOLE	20	98	DOMESTIC
138820		MACNEAL JAMES	40.85111	-76.04417	134		30	100	DOMESTIC
138951	9/29/1989	ROTH R	40.89528	-76.11278	250	OPEN HOLE	10	40	DOMESTIC
138952	5/1/1988	LABURDA S	40.89750	-76.11556	175	OPEN HOLE	75	2	DOMESTIC
138953	9/28/1989	EVANCHO J	40.91528	-76.10083	175	OPEN HOLE	12	45	DOMESTIC
138954	3/1/1990	PA LAND DEVELOPMENT	40.89861	-76.12917	76	SCREEN	0	0	INSTITUTIONAL
138955	3/1/1990	PA LAND DEVELOPMENT	40.89861	-76.12917	25	SCREEN	0	0	INSTITUTIONAL
138956	3/1/1990	PA LAND DEVELOPMENT	40.89861	-76.12917	25	SCREEN	0	0	INSTITUTIONAL
138957	3/1/1990	PA LAND DEVELOPMENT	40.89861	-76.12917	50	SCREEN	0	0	INSTITUTIONAL
138958	3/1/1990	PA LAND DEVELOPMENT	40.89861	-76.12917	65	SCREEN	0	0	INSTITUTIONAL
138959	3/1/1990	PA LAND DEVELOPMENT	40.89861	-76.12917	80	SCREEN	0	0	INSTITUTIONAL
138960	4/1/1989	BECKETT T	40.86778	-76.10778	200	OPEN HOLE	12	0	DOMESTIC
138961	8/1/1982	MEHALICK M	40.90500	-76.13583	220	OPEN HOLE	25	40	DOMESTIC
138969	1/1/1968	SUERCHEK FATHER	40.89667	-76.12556	213	OPEN HOLE	12	112	DOMESTIC
138970	1/1/1968	HOFFMAN JOS	40.86472	-76.16389	187	OPEN HOLE	8	0	DOMESTIC
138971	1/1/1968	LUREDIN JOE	40.89750	-76.11861	73	OPEN HOLE	30	8	DOMESTIC
138972	1/1/1969	WANDZELCK,PHIL	40.89722	-76.11611	101	OPEN HOLE	60	0	DOMESTIC
138973	1/1/1968	PEIFER,WINTON	40.85722	-76.17028	93	OPEN HOLE	12	30	DOMESTIC
138974	1/1/1968	PEIFER WINTON	40.85778	-76.16778	93	OPEN HOLE	10	40	DOMESTIC
138975	1/1/1970	DAVIDSON,CHAR.	40.89556	-76.12000	68	OPEN HOLE	20	12	DOMESTIC
138976	1/1/1970	FORMOLE NEIL	40.90750	-76.12472	70	OPEN HOLE	20	25	DOMESTIC
138977	1/1/1969	VAN BLAZRE W	40.90750	-76.12639	85	OPEN HOLE	18	18	DOMESTIC
138978	1/1/1967	SACCO EUGENE	40.86806	-76.16861	308	OPEN HOLE	2	56	DOMESTIC
138979	1/1/1967	SACCO EUGENE	40.86222	-76.16639	418	OPEN HOLE	2	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
138980	1/1/1968	GARDENER BETTY	40.86556	-76.15861	200	OPEN HOLE	8	102	DOMESTIC
138981	1/1/1966	FOOSE CLARENCE	40.87389	-76.15056	200	OPEN HOLE	12	0	DOMESTIC
138982	1/1/1970	HORNBERGER,ED	40.86917	-76.16806	4150	OPEN HOLE	6	260	DOMESTIC
138983	1/1/1970	LELLIN DONALD	40.89278	-76.11833	174	OPEN HOLE	6	80	DOMESTIC
138984	1/1/1970	SHANANY ED	40.89472	-76.11861	83	OPEN HOLE	22	7	DOMESTIC
138985	1/1/1969	HJUENECK JOHN	40.90861	-76.12222	98	OPEN HOLE	30	5	DOMESTIC
138986	1/1/1968	HALACK ANDREW	40.89972	-76.11917	100	OPEN HOLE	14	60	DOMESTIC
138987	1/1/1968	BARTON RALPH	40.86667	-76.19389	99	OPEN HOLE	12	40	INDUSTRIAL
138988	1/1/1968	BARTON RALPH	40.86667	-76.19389	83	OPEN HOLE	20	20	INDUSTRIAL
138989	1/1/1966	ARCHERY CLUB	40.89528	-76.13028	132	OPEN HOLE	15	0	PUBLIC SUPPLY
138990	1/1/1966	AUSTRA ED	40.88500	-76.10111	86	OPEN HOLE	10	35	DOMESTIC
138991		CLARK RALPH	40.86889	-76.12194	182	OPEN HOLE	6	45	DOMESTIC
138992		TRI-STAR HOMES	40.85889	-76.17111	143	OPEN HOLE	20	90	DOMESTIC
138993		LORAH JEAN	40.86111	-76.20500	202	OPEN HOLE	3	90	DOMESTIC
138994		CATALANOTTI LOU	40.90861	-76.12167	177	OPEN HOLE	18	52	DOMESTIC
139039	1/1/1969	WEIST HARRY	40.75222	-76.33694	82	OPEN HOLE	52	10	DOMESTIC
139040	1/1/1969	SCHMIDT HENRY	40.75167	-76.33361	110	OPEN HOLE	30	50	DOMESTIC
139042	1/1/1969	PAULY,LEWIS	40.75222	-76.33306	59	OPEN HOLE	52	6	DOMESTIC
139082	9/1/1988	HONEY BROOK WATER CO	40.89500	-76.00389	800	OPEN HOLE	150	0	PUBLIC SUPPLY
139083	9/1/1988	HONEY BROOK WATER CO	40.89444	-76.00361	730	OPEN HOLE	200	150	PUBLIC SUPPLY
139084	3/11/1986	NE POWER CO	40.86917	-76.00361	850		6	29	INDUSTRIAL
139085	3/11/1986	NE POWER CO	40.86278	-76.00194	850		6	29	INDUSTRIAL
139086	11/1/1988	OREM F	40.88472	-75.98556	770	OPEN HOLE	3	30	DOMESTIC
139101	1/1/1968	CASIMIRRO FELIX	40.79889	-76.15056	175	OPEN HOLE	30	40	DOMESTIC
139102	1/1/1971	GANNETT FLEMING	40.82083	-76.08750	580	OPEN HOLE	10	190	DOMESTIC
139103	1/1/1971	GANNETT FLEMING	40.82083	-76.08750	400	OPEN HOLE	14	15	DOMESTIC
139104	11/1/1980	HOLLEY D	40.76833	-76.24028	425	OPEN HOLE	12	12	PUBLIC SUPPLY
139105	11/1/1980	HOLLEY D	40.77167	-76.24611	400	OPEN HOLE	10	150	PUBLIC SUPPLY
139210	11/1/1989	KLINGERMAN B	40.91917	-76.18472	300	OPEN HOLE	15	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
139211	4/1/1988	MICHEALS R	40.93806	-76.16778	250	OPEN HOLE	20	75	DOMESTIC
139215	1/1/1969	COURMAYER RAY	40.92111	-76.20222	113	OPEN HOLE	26	2	DOMESTIC
139216	1/1/1967	WYDOLK TOM	40.91306	-76.20083	271	OPEN HOLE	3	0	DOMESTIC
139217	1/1/1967	KLINGERMAN,WM	40.92972	-76.17750	278	OPEN HOLE	4	0	DOMESTIC
139218	1/1/1969	RHODES	40.90361	-76.21000	113	OPEN HOLE	12	15	DOMESTIC
139219	1/1/1970	BOEHMER	40.91972	-76.16889	76	OPEN HOLE	20	0	DOMESTIC
139521	1/1/1969	MALMAR ALBERT	40.85361	-76.23917	158	OPEN HOLE	31	0	
139522	6/1/1984	PA DER	40.80889	-76.03111	668	OPEN HOLE	5	280	PUBLIC SUPPLY
139523	7/1/1985	SKARONISKI JJ	40.81944	-76.04056	430	OPEN HOLE	8	100	DOMESTIC
139524	1/1/1985	BRAYFORD W	40.81806	-76.04111	550	OPEN HOLE	5	48	DOMESTIC
139525	12/1/1989	KOVATCH J	40.82417	-75.97444	373	OPEN HOLE	8	20	DOMESTIC
139526	9/1/1988	GROUSE HUNT FARMS	40.83944	-76.01861	200	OPEN HOLE	30	50	INDUSTRIAL
139527	5/13/1985	WH BIRCH GOLF COURSE	40.81111	-76.02056	220	OPEN HOLE	20	6	PUBLIC SUPPLY
139528	10/26/1984	STAHLERS AUTO SERVIC	40.81333	-75.97944	180	OPEN HOLE	50	24	PUBLIC SUPPLY
139529	2/21/1990	LEHATTO P	40.82389	-75.98083	120	OPEN HOLE	15	15	DOMESTIC
139530	3/5/1990	OTTERIND P	40.82417	-75.98111	120	OPEN HOLE	12	14	DOMESTIC
139531	5/9/1990	GRAINGER J	40.82056	-75.98222	140	OPEN HOLE	25	21	DOMESTIC
139532	2/15/1990	ZUBRIS R	40.82917	-75.98278	160	OPEN HOLE	20	15	DOMESTIC
139533	2/19/1990	YANUZZI R	40.81972	-75.98194	120	OPEN HOLE	25	10	DOMESTIC
139534	2/16/1990	STEINERT J	40.81972	-75.98306	120	OPEN HOLE	20	18	DOMESTIC
139535	4/4/1990	NEIFERT R	40.82028	-75.98306	140	OPEN HOLE	20	29	DOMESTIC
139536	3/12/1990	DILLON J	40.82889	-75.98278	120	OPEN HOLE	12	29	DOMESTIC
139537	3/29/1990	PETROLE J	40.82917	-75.98278	140	OPEN HOLE	20	29	DOMESTIC
139538	2/20/1990	VILCHECK J	40.82917	-75.98306	140	OPEN HOLE	25	24	DOMESTIC
139539	1/22/1990	HAFER L	40.83000	-75.98444	140	OPEN HOLE	25	48	DOMESTIC
139540	1/23/1990	SCHNELL D	40.83000	-75.98389	120	OPEN HOLE	45	43	DOMESTIC
139541	1/23/1990	HAFER J JR	40.83000	-75.98417	120	OPEN HOLE	23	46	DOMESTIC
139542	4/5/1990	BONNER J	40.83028	-75.98417	160	OPEN HOLE	14	32	DOMESTIC
139543	1/30/1990	HAFER J T	40.82889	-75.98389	120	OPEN HOLE	15	39	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
139544	2/14/1990	PAISLEY L	40.82889	-75.98417	120	OPEN HOLE	10	9	DOMESTIC
139545	2/1/1990	BRILL J	40.82861	-75.98389	200	OPEN HOLE	15	31	DOMESTIC
139546	1/22/1990	MEHALSHICK P	40.82861	-75.98417	120	OPEN HOLE	15	47	DOMESTIC
139547	1/27/1990	WALCK R	40.82861	-75.98444	160	OPEN HOLE	15	34	DOMESTIC
139548	1/30/1990	CICIONI J	40.82417	-75.98000	140	OPEN HOLE	20	7	DOMESTIC
139549	2/2/1990	HEISLER V	40.82472	-75.97972	140	OPEN HOLE	15	11	DOMESTIC
139550	3/1/1978	TETER R	40.81889	-76.02444	70	OPEN HOLE	20	8	DOMESTIC
139551	4/20/1978	HUMES C	40.83278	-76.05556	222	OPEN HOLE	7	30	DOMESTIC
139552	7/1/1978	MCCIMLEY	40.85917	-76.00361	300	OPEN HOLE	7	159	DOMESTIC
139553	4/1/1981	PASTUPACH P	40.86611	-75.97889	150	OPEN HOLE	18	40	DOMESTIC
139554	7/31/1981	BITSKO T	40.85667	-75.99722	382	OPEN HOLE	2	60	DOMESTIC
139555	1/24/1983	SILBERLINE MFG CO	40.82694	-75.98611	125	OPEN HOLE	5	125	INDUSTRIAL
139556	2/1/1981	WITZEL W	40.83611	-75.99222	210	OPEN HOLE	12	95	DOMESTIC
139557	9/1/1978	BAILEY CURTIS	40.82278	-75.96917	250	OPEN HOLE	8	71	DOMESTIC
139558	5/1/1979	MERKEL HOMES	40.82722	-75.98444	300	OPEN HOLE	20	23	DOMESTIC
139559	9/29/1982	TAMAQUAMASONIC TEMPL	40.82139	-75.96417	382	OPEN HOLE	12	53	PUBLIC SUPPLY
139586	1/1/1967	OLEXIS GEO	40.84528	-76.04139	328	OPEN HOLE	12	60	DOMESTIC
139587	1/1/1967	STISOWAIN LEWIS	40.82167	-75.97889	170	OPEN HOLE	18	100	DOMESTIC
139588	1/1/1967	ADAMS ROBERT	40.85667	-75.99667	230	OPEN HOLE	12	100	DOMESTIC
139589	1/1/1967	RICE AGUSTUS	40.85722	-75.99750	110		40	22	DOMESTIC
139590	1/1/1966	BASKAPICS.JOHN	40.85833	-75.98694	75	OPEN HOLE	0	0	DOMESTIC
139591	1/1/1966	LECH	40.85639	-76.00111	97	OPEN HOLE	50	6	DOMESTIC
139592	1/1/1971	RODGERS EDWARD	40.83167	-76.02806	150	OPEN HOLE	35	36	DOMESTIC
139593	1/1/1971	HECKMAN ARTHUR	40.85194	-76.03722	120	OPEN HOLE	35	18	DOMESTIC
139594	1/1/1966	POWELL,JOHN	40.87111	-75.97056	112	OPEN HOLE	15	46	DOMESTIC
139595	1/1/1971	GEARHARD GLENN	40.83194	-75.97917	149	OPEN HOLE	35	60	DOMESTIC
139596	1/1/1971	SMIGO ROBT	40.82917	-75.98194	198	OPEN HOLE	12	6	DOMESTIC
139597	1/1/1970	KOBACK MABLE	40.81861	-76.02389	249		6	100	DOMESTIC
139599		FEGLEY S PAUL	40.82639	-76.05611	142	OPEN HOLE	18	45	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
139600		ROUNDS	40.82889	-76.05750	200	OPEN HOLE	20	48	DOMESTIC
139601		KROUT RUSSELL	40.82639	-75.98389	122	OPEN HOLE	25	20	DOMESTIC
139602		WRIGHT HOMES	40.82778	-76.25083	160	OPEN HOLE	20	0	DOMESTIC
139603		RARICK EDWARD	40.83611	-75.99333	200	OPEN HOLE	20	15	DOMESTIC
139604		ZUKOVICH EDWARD	40.85583	-75.99917	128	OPEN HOLE	20	40	DOMESTIC
139605		FREDRICKSON JAS	40.82417	-75.97139	175	OPEN HOLE	25	38	DOMESTIC
139606	4/1/1988	CITIZEN FIRE CO PARK	40.78556	-76.10806	225	OPEN HOLE	15	75	DOMESTIC
139607	7/31/1984	NEADE R	40.78889	-76.05139	180	OPEN HOLE	12	45	DOMESTIC
139608	8/16/1983	PEEL D	40.78556	-76.10611	200	OPEN HOLE	10	45	DOMESTIC
139609	12/1/1982	ST RICHARDS CHURCH	40.81611	-76.04917	154	OPEN HOLE	20	60	DOMESTIC
139610	10/1/1982	CHRIST L	40.78778	-76.05833	365	OPEN HOLE	15	100	DOMESTIC
139611	10/22/1981	HAYES T	40.78639	-76.10444	302	OPEN HOLE	3	40	DOMESTIC
139612	9/1/1981	WHALEN T	40.78167	-76.08750	250	OPEN HOLE	50	35	DOMESTIC
139613	9/1/1981	ST PETERS UCC	40.78750	-76.07417	300	OPEN HOLE	4	65	DOMESTIC
139614	9/1/1981	MORGAN W	40.78611	-76.07167	298	OPEN HOLE	7	71	DOMESTIC
139615	12/7/1977	KOTCH J	40.78611	-76.11000	200		10	200	DOMESTIC
139644	1/1/1968	FRANST,WILLIAM	40.80639	-76.05667	143	OPEN HOLE	13	55	DOMESTIC
139645	1/1/1969	ST RICHARDS	40.81083	-76.05222	314	OPEN HOLE	25	60	DOMESTIC
139646	1/1/1969	FRITZ DAVID	40.80556	-76.06028	98	OPEN HOLE	21	30	DOMESTIC
139647	1/1/1971	THURCHAK ANDY	40.81222	-76.05944	220	OPEN HOLE	20	140	DOMESTIC
139648	1/1/1971	HART THOS	40.80556	-76.05500	218	OPEN HOLE	10	120	DOMESTIC
139649	1/1/1966	POPNICK LEO	40.81667	-76.05639	96	OPEN HOLE	25	18	DOMESTIC
139650	1/1/1967	PRICE THOMAS	40.81611	-76.05750	122	OPEN HOLE	20	40	DOMESTIC
139651	1/1/1966	BLUME HENRY	40.81917	-76.05639	96	OPEN HOLE	30	21	DOMESTIC
139652	1/1/1971	RYAN TWSP BLDG	40.81778	-76.05972	300	OPEN HOLE	10	37	DOMESTIC
139653		TOLAN JAMES	40.82111	-76.07056	320	OPEN HOLE	20	58	DOMESTIC
139654		SOULT GENE	40.82056	-76.05083	200	OPEN HOLE	12	55	DOMESTIC
139655		PURNELL LYNN	40.81944	-76.07556	225	OPEN HOLE	10	84	DOMESTIC
139656		SISAK VIRGINIA	40.81889	-76.05028	142	OPEN HOLE	20	55	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
139657		SCH CO MUN AUTH	40.77833	-76.17944	620	OPEN HOLE	125	250	PUBLIC SUPPLY
139658	10/9/1989	WAGNER J	40.77944	-76.04806	400	OPEN HOLE	8	63	DOMESTIC
139659	5/3/1988	CANFIELD R	40.75556	-76.03972	160	OPEN HOLE	20	7	DOMESTIC
139661	7/9/1976	CURTIS MANKEL	40.77944	-76.04778	250		17	30	DOMESTIC
139764	2/1/1989	FOOSE M	40.84833	-76.19889	160	OPEN HOLE	25	40	DOMESTIC
139765	5/1/1988	WILKENSON G	40.83722	-76.22917	500	OPEN HOLE	6	175	DOMESTIC
139766	1/1/1990	MCNELUS T	40.83750	-76.24528	325	OPEN HOLE	3	295	DOMESTIC
139767	4/1/1988	RANDALL-TYSON	40.85806	-76.25139	200	OPEN HOLE	12	30	DOMESTIC
139775	1/1/1968	POLISH NC CHURC	40.83528	-76.23472	112	OPEN HOLE	11	44	
139776	1/1/1967	REPER,ANTHONY	40.86139	-76.23056	168	OPEN HOLE	566	50	DOMESTIC
139777	1/1/1969	REED GILBERT	40.86639	-76.20222	250	OPEN HOLE	15	125	DOMESTIC
139778	1/1/1970	BROWN NEIL	40.83917	-76.28111	248	OPEN HOLE	7	90	DOMESTIC
139790	10/1/1986	JONES T	40.78000	-75.98611	145	OPEN HOLE	1	25	DOMESTIC
139791	7/13/1987	SMITH E	40.76389	-75.98639	220	OPEN HOLE	10	86	DOMESTIC
139792	3/1/1985	FISHER P	40.73944	-76.05056	125	OPEN HOLE	11	45	DOMESTIC
139793	10/22/1980	LEIBY B	40.74750	-76.03444	480	OPEN HOLE	5	90	DOMESTIC
139795	9/1/1978	KOTCH J	40.77528	-75.98806	428	OPEN HOLE	0	0	
139797	9/1/1979	JAMES J	40.73833	-76.04722	115	OPEN HOLE	18	40	DOMESTIC
139799	9/1/1979	AMENTLER R	40.75250	-76.03278	250	OPEN HOLE	14	89	DOMESTIC
139826	1/1/1969	HEISLER MAURICE	40.75917	-76.02139	113	OPEN HOLE	25	15	DOMESTIC
139827	1/1/1970	RUDLOFF ALFRED	40.78056	-75.98111	540	OPEN HOLE	6	58	DOMESTIC
139828	1/1/1966	STOUDT JOHN	40.78139	-75.98111	214	OPEN HOLE	11	55	DOMESTIC
139829	1/1/1966	ZIMMERMAN LEIBY	40.76056	-76.02083	407	OPEN HOLE	22	70	INDUSTRIAL
139830	1/1/1969	HEISLER MORRIS	40.75778	-76.02222	90	OPEN HOLE	30	41	DOMESTIC
139832		HROMYAK MICHAEL	40.74833	-76.02722	135	OPEN HOLE	10	40	DOMESTIC
139834		STOHL FRANKLIN	40.77639	-75.98917	225	OPEN HOLE	10	68	DOMESTIC
139835		INAMA HENRY	40.75833	-76.02389	120	OPEN HOLE	20	45	DOMESTIC
139836		OHARA FRANK	40.75111	-76.03611	120	OPEN HOLE	18	55	DOMESTIC
139837		MERKEL CURTIS	40.79278	-75.98750	100	OPEN HOLE	15	20	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
140402	4/9/1990	STATE POLICE	40.79417	-76.19056	160	OPEN HOLE	25	6	PUBLIC SUPPLY
140403	7/1/1982	KEYSTONE WATER CO	40.77500	-76.22972	362	OPEN HOLE	200	21	PUBLIC SUPPLY
140404	9/10/1982	KEYSTONE WATER CO	40.77500	-76.22944	550	OPEN HOLE	300	52	PUBLIC SUPPLY
140405	6/1/1982	KEYSTONE WATER CO	40.77917	-76.22306	550	OPEN HOLE	80	16	PUBLIC SUPPLY
140412	1/1/1968	GERA ANDREW	40.78333	-76.19750	90	OPEN HOLE	45	18	DOMESTIC
140413	1/1/1969	ROCHESTER IRON	40.78028	-76.21500	150	OPEN HOLE	89	15	INDUSTRIAL
140414		HANNIS FRANK	40.82500	-76.21500	162	OPEN HOLE	0	0	DOMESTIC
140416	5/1/1986	VANTOL W	40.78028	-75.98417	166	OPEN HOLE	20	90	DOMESTIC
140417	3/1/1985	BALIET L	40.79306	-75.89417	140	OPEN HOLE	20	30	DOMESTIC
140489	4/1/1982	HENNINGER F	40.79917	-75.88472	105	OPEN HOLE	15	70	DOMESTIC
142010	6/1/1987	KEISER R	41.35250	-76.31889	248	OPEN HOLE	3	0	DOMESTIC
142013	10/1/1984	DONALDSON	41.43250	-76.30389	200	OPEN HOLE	2	140	DOMESTIC
142014	12/1/1984	DELOVICH	41.43222	-76.30361	150	OPEN HOLE	5	30	DOMESTIC
142016	1/1/1966	SHIPLEY C B	41.35000	-76.30000	78	OPEN HOLE	30	12	DOMESTIC
142017	1/1/1966	LEWIS DWIGHT	41.35000	-76.30000	79	OPEN HOLE	10	12	DOMESTIC
142020	1/1/1967	SPAAR STEVE	41.43333	-76.30000	107	OPEN HOLE	10	48	DOMESTIC
142021	1/1/1967	CLARKE REGENALD	41.43333	-76.26667	131	OPEN HOLE	10	55	DOMESTIC
142025	1/1/1966	CO LUMBR LITTLE	41.35000	-76.30000	85	OPEN HOLE	6	20	DOMESTIC
142026	1/1/1967	LITTE MILES	41.35000	-76.30000	72	OPEN HOLE	40	24	DOMESTIC
142027	1/1/1967	BRECK FRED	41.35000	-76.30000	105	OPEN HOLE	5	25	DOMESTIC
142035	7/1/1988	HOFFER ELAM	41.35639	-76.47944	295	OPEN HOLE	2	0	DOMESTIC
152162	1/1/1966	STEELE MELVEN	41.40972	-76.00611	121	OPEN HOLE	32	34	DOMESTIC
152243	12/8/1980	LABAPRE NAPLINE	41.41056	-76.00444	750	OPEN HOLE	4	400	DOMESTIC
152244	6/29/1982	PILGER B	41.39806	-75.98056	200	OPEN HOLE	35	35	DOMESTIC
152245	3/7/1977	NOXEN HEALTH CENTER	41.42833	-76.02056	190	OPEN HOLE	50	20	PUBLIC SUPPLY
152246	9/26/1983	KOCKER	41.41278	-75.99972	275		10	120	DOMESTIC
152247	11/1/1981	HARRIS D	41.42500	-76.03389	150	OPEN HOLE	7	0	DOMESTIC
152248	2/1/1980	CAGE LOREY	41.42250	-76.04083	225	OPEN HOLE	22	30	DOMESTIC
152249	9/3/1980	GAVEK J	41.41139	-76.00028	100	OPEN HOLE	10	25	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
152250	6/1/1988	COOK STANLEY	41.42889	-76.01250	250	OPEN HOLE	24	0	DOMESTIC
152251	10/1/1986	HANNER DONALD	41.40694	-76.03000	140	OPEN HOLE	15	12	DOMESTIC
152252	9/18/1984	DANIELS D	41.41028	-76.03333	270	OPEN HOLE	20	0	DOMESTIC
152260	1/1/1967	ANDERSON GENE	41.39278	-75.98667	211	OPEN HOLE	20	44	DOMESTIC
152261		BOOTH DAVE	41.41167	-75.99889	380	OPEN HOLE	6	20	DOMESTIC
152262		BELLAS DAN	41.41472	-75.97417	278	OPEN HOLE	30	150	DOMESTIC
152265		PATTON WILLIAM	41.42000	-76.02889	175	OPEN HOLE	15	70	DOMESTIC
152397	3/14/1981	PATTON CARLTON	41.42639	-76.05833	185		25	0	DOMESTIC
152398	9/17/1980	PATION HELEN	41.41917	-76.06611	175	OPEN HOLE	14	40	DOMESTIC
152399	1/19/1989	BARBACHO JIM	41.38750	-76.05500	220	OTHER	10	0	DOMESTIC
152400	4/30/1987	TURNEFF BETTY	41.42833	-76.06778	127	OPEN HOLE	14	20	DOMESTIC
152401	5/1/1987	BOSTON FRED	41.42944	-76.06167	225	OPEN HOLE	60	60	DOMESTIC
152402	3/9/1989	YAKALOVICZ WALTER	41.42250	-76.05333	265	OPEN HOLE	30	0	DOMESTIC
152407		NEWELL RICHARD	41.42000	-76.06667	435	OPEN HOLE	50	250	DOMESTIC
182729	1/1/1973	BEACH HAVEN FIR	41.06806	-76.16167	100	OPEN HOLE	12	40	
182730	1/1/1974	MOLYNEAUX SHLDN	41.06917	-76.16639	50	OPEN HOLE	15	0	DOMESTIC
182731	1/1/1974	VARNER ARTHUR	41.08583	-76.19250	125	OPEN HOLE	7	0	DOMESTIC
182732	1/1/1972	BRADER HERB	41.08944	-76.18056	100	OPEN HOLE	12	0	DOMESTIC
190082		SALVATERRA N	41.02278	-76.17556	275	OPEN HOLE	18	60	DOMESTIC
214480	9/21/1975	HAZLETON WASTE MAT	40.92056	-75.99944	170		20	5	INDUSTRIAL
247067		4 SEASONS MOBILE ESTATES	40.92330	-75.99940	180		55	0	PUBLIC SUPPLY
247068		4 SEASONS MOBILE ESTATES	40.92360	-75.99890	146		55	30	PUBLIC SUPPLY
247069		FARMER'S CO-OP	40.98390	-75.98560	446		320	0	COMMERCIAL
247070		FARMER'S CO-OP	40.98390	-75.98470	150		300	0	COMMERCIAL
247071		ZOLA'S LAMP POST	40.98640	-75.95250	115		0	20	COMMERCIAL
247072		GUS GENETTI HOTEL & RESTAURANT	40.98360	-75.98030	150		160	15	COMMERCIAL
247073		GUS GENETTI HOTEL & RESTAURANT	40.98310	-75.97940	120		135	0	COMMERCIAL
247074		GUS GENETTI HOTEL & RESTAURANT	40.98390	-75.97940	170		145	22	COMMERCIAL
247075		HAZLE PARK PACKING CO.	40.96360	-75.99940	590	OPEN HOLE	10	160	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
247076		LAUREL RESTAURANT	40.97690	-75.98000	75	OPEN END	1	0	COMMERCIAL
247286		CARBON COUNTY PRISON	40.87280	-75.78610	0		20	0	PUBLIC SUPPLY
247297		WEATHERLY COUNTRY INN	40.96470	-75.78060	120		0	0	COMMERCIAL
247306		WHITEWATER CHALLENGERS, INC.	40.98810	-75.78140	150		13	0	COMMERCIAL
247307		WHITEWATER CHALLENGERS, INC.	40.98810	-75.78140	300		21	0	COMMERCIAL
247336		MCADOO INDUSTRIAL PARK WATER	40.90390	-75.97470	600		0	0	COMMERCIAL
247348		CARBON COUNTY ENVIRO CENTER	40.82810	-75.84220	150		25	0	INSTITUTIONAL
247699		TAMAQUA AREA WATER AUTHORITY	40.79690	-75.92330	340	OPEN END	0	0	PUBLIC SUPPLY
247700		WILDCAT PARK CORPORATION	40.76720	-75.98360	0		9	0	PUBLIC SUPPLY
247701		WILDCAT PARK CORPORATION	40.76720	-75.98330	0		45	0	PUBLIC SUPPLY
247708		STILL CREEK TAVERN INC	40.87670	-75.96190	300		0	0	COMMERCIAL
247765		NESQUEHONING BORO WATER AUTH	40.85889	-75.85694	0		0	0	PUBLIC SUPPLY
247766		NESQUEHONING BORO WATER AUTH	40.85944	-75.85722	0		0	0	PUBLIC SUPPLY
247767		NESQUEHONING BORO WATER AUTH	40.86861	-75.80083	0		0	0	PUBLIC SUPPLY
247768		NESQUEHONING BORO WATER AUTH	40.86944	-75.80750	0		0	0	PUBLIC SUPPLY
247769		NESQUEHONING BORO WATER AUTH	40.86944	-75.79889	0		0	0	PUBLIC SUPPLY
247852		NEW ENGLAND FIRE CO.	40.77944	-75.97972	0		0	0	COMMERCIAL
248645		ECHO VALLEY MHP	41.32139	-75.92333	300		46	0	PUBLIC SUPPLY
248646		OLD TURNPIKE VILLAGE	41.06080	-75.96890	385		30	0	PUBLIC SUPPLY
248647		FIELDCREST WATER ASSOC.	41.30444	-75.96528	360	GRAVEL PACK W/ SCREEN	44	120	PUBLIC SUPPLY
248648		PARDEESVILLE WATER ASSOC	41.00220	-75.96750	225		8	0	PUBLIC SUPPLY
248649		PARDEESVILLE WATER ASSOC	41.00220	-75.96250	300		8	0	PUBLIC SUPPLY
248650		PARDEESVILLE WATER ASSOC	41.00250	-75.96250	500	OPEN END	25	60	PUBLIC SUPPLY
248651		PARDEESVILLE WATER ASSOC	41.00280	-75.96250	275		8	0	PUBLIC SUPPLY
248652		PARDEESVILLE WATER ASSOC	41.00330	-75.96250	650		14	0	PUBLIC SUPPLY
248654		MAPLE CREST WATER COMPANY	41.32583	-75.90889	380		24	0	PUBLIC SUPPLY
248655		SKYWAY MOBILEHOME PARK	41.04420	-75.79500	160		1	0	PUBLIC SUPPLY
248656		KEYSTONE JOB CORPS CENTER	41.00140	-75.98920	300		70	175	INSTITUTIONAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
248657		KEYSTONE JOB CORPS CENTER	41.00580	-75.98780	280		155	0	INSTITUTIONAL
248658		KEYSTONE JOB CORPS CENTER	41.00860	-75.98330	300		150	0	INSTITUTIONAL
248659		LAUREL RUN ESTATES	41.22280	-75.79560	604	OPEN END	22	249	PUBLIC SUPPLY
248660		LAUREL RUN ESTATES	41.22140	-75.78810	800	OPEN END	15	300	PUBLIC SUPPLY
248661		LAUREL RUN ESTATES	41.22000	-75.78640	500	OPEN END	50	262	PUBLIC SUPPLY
248662		VALLEY STREAM MOBILE HM VILLAG	41.11690	-75.96110	345		15	0	PUBLIC SUPPLY
248663		VALLEY STREAM MOBILE HM VILLAG	41.11940	-75.95750	0		21	0	PUBLIC SUPPLY
248664		COUNTRY VILLAGE MHP	41.39444	-75.93083	480		7	0	PUBLIC SUPPLY
248665		BEECHCREST MOBILE HOME PARK	41.08170	-75.77670	295		1	0	PUBLIC SUPPLY
248666		COUNTRY PINE ESTATES	41.33500	-75.96167	125		13	0	PUBLIC SUPPLY
248667		COUNTRY PINE ESTATES	41.33500	-75.96167	300		11	0	PUBLIC SUPPLY
248668		VALLEY VIEW MHP	41.37278	-75.92722	680		76	0	PUBLIC SUPPLY
248669		DALLAS MHP	41.35139	-75.96278	125		19	0	PUBLIC SUPPLY
248670		DALLAS MHP	41.35139	-75.96278	425		31	0	PUBLIC SUPPLY
248679		HYLAND MOBILE HOME PARK	41.03310	-75.79190	135		12	0	PUBLIC SUPPLY
248680		PAWC HILLCREST WATER CO.	41.31250	-75.94333	490		19	0	PUBLIC SUPPLY
248681		PAWC HOMESITE WATER COMPANY	41.32667	-75.89917	179		14	0	PUBLIC SUPPLY
248683		UNITED WATER PA DALLAS	41.04780	-75.99940	180		0	0	PUBLIC SUPPLY
248684		UNITED WATER PA DALLAS	41.34860	-75.99030	365		28	0	PUBLIC SUPPLY
248685		UNITED WATER PA DALLAS	41.34530	-75.98060	250		300	0	PUBLIC SUPPLY
248686		UNITED WATER PA DALLAS	41.33940	-75.97030	180	SCREEN	250	0	PUBLIC SUPPLY
248687		UNITED WATER PA DALLAS	41.35970	-75.96890	410		225	0	PUBLIC SUPPLY
248688		UNITED WATER PA DALLAS	41.33580	-75.96280	425		175	0	PUBLIC SUPPLY
248689		UNITED WATER PA DALLAS	41.34330	-75.95920	531		70	0	PUBLIC SUPPLY
248690		UNITED WATER PA DALLAS	41.33420	-75.93580	580		40	0	PUBLIC SUPPLY
248691		FOREST PARK	41.19111	-75.78833	400	SCREEN	25	0	PUBLIC SUPPLY
248692		FOREST PARK	41.19167	-75.78833	126	SCREEN	15	0	PUBLIC SUPPLY
248693		PENN LAKE	41.11420	-75.76390	260	SCREEN	64	4	PUBLIC SUPPLY
248695		OVERBROOK WATER COMPANY	41.32444	-75.95222	520		130	400	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
248697		OVERBROOK WATER COMPANY	41.32639	-75.94556	290		900	134	PUBLIC SUPPLY
248698		APPLEWOOD WATER COMPANY	41.37056	-75.92528	202	OPEN HOLE	44	30	PUBLIC SUPPLY
248700		GARBUSH WATER COMPANY	41.28194	-75.96500	260	OPEN HOLE	40	30	PUBLIC SUPPLY
248701		GARBUSH WATER COMPANY	41.28194	-75.96500	260	OPEN HOLE	40	30	PUBLIC SUPPLY
248702		UNITED WATER PA SHAVERTOWN	41.32610	-75.94030	400		238	42	PUBLIC SUPPLY
248705		TOWN & COUNTRY WATER ASSOC	41.30056	-75.99444	250	OPEN HOLE	42	80	PUBLIC SUPPLY
248706		TOWN & COUNTRY WATER ASSOC	41.30060	-75.91110	250	OPEN HOLE	42	94	PUBLIC SUPPLY
248707		MIDWAY MANOR WATER CO.	41.33500	-75.92000	0		40	0	PUBLIC SUPPLY
248708		MIDWAY MANOR WATER CO.	41.33500	-75.92000	0		150	0	PUBLIC SUPPLY
248709		MIDAY MANOR HARRIS HILL	41.32667	-75.91889	0		13	0	PUBLIC SUPPLY
248710		ORCHARD EAST WATER ASSOC	41.32972	-75.95639	459		25	0	PUBLIC SUPPLY
248711		WHITE HAVEN MUN WATER AUTH	41.05190	-75.81610	600		35	40	PUBLIC SUPPLY
248712		WHITE HAVEN MUN WATER AUTH	41.05190	-75.81500	600		35	40	PUBLIC SUPPLY
248715		WHITE HAVEN CENTER	41.05780	-75.79890	385		150	20	PUBLIC SUPPLY
248716		WHITE HAVEN CENTER	41.06000	-75.79830	397		144	35	PUBLIC SUPPLY
248717		COUNTRY CLUB APTS	41.35694	-75.96583	375		25	0	PUBLIC SUPPLY
248718		LAUREL LAKES VILLAGE	41.15890	-75.96440	350	OPEN END	30	16	PUBLIC SUPPLY
248719		LAUREL LAKES VILLAGE	41.15750	-75.96330	380	OPEN END	17	77	PUBLIC SUPPLY
248720		LAUREL LAKES VILLAGE	41.15640	-75.96280	450	OPEN END	30	12	PUBLIC SUPPLY
248721		LAUREL LAKES VILLAGE	41.15670	-75.96250	230	OPEN END	18	65	PUBLIC SUPPLY
248722		ORCHARD WEST WATER ASSOC.	41.32944	-75.95833	475		5	0	PUBLIC SUPPLY
248723		FOUR SEASONS SEWER & WATER CO.	41.04360	-75.92530	742		150	43	PUBLIC SUPPLY
248724		FOUR SEASONS SEWER & WATER CO.	41.04750	-75.92470	742		139	119	PUBLIC SUPPLY
248725		MEADOWS COMPLEX	41.34194	-75.96694	450		0	0	PUBLIC SUPPLY
248726		FRITZINGERTOWN SR LIV COMM #1	41.00670	-75.99970	100		12	0	PUBLIC SUPPLY
248727		BUTLER VALLEY MANOR	41.05000	-75.94110	668	OPEN HOLE	100	100	PUBLIC SUPPLY
248728		BEAR CREEK HEALTH CARE CENTER	41.17890	-75.74500	195	SCREEN	0	0	PUBLIC SUPPLY
248729		MEADOWS 1 NEWBERRY ESTATES	41.32639	-75.95722	468		0	0	PUBLIC SUPPLY
248730		SUNRISE ESTATES	41.32417	-75.90778	250		20	20	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
248731		SUNRISE ESTATES	41.32500	-75.90722	275		150	0	PUBLIC SUPPLY
248732		SUNRISE ESTATES	41.32500	-75.90722	550		20	73	PUBLIC SUPPLY
248733		SUNRISE ESTATES	41.32500	-75.90722	775		20	0	PUBLIC SUPPLY
248734		VALLEY GORGE MOBILE HOME PARK	41.04860	-75.77470	300	OPEN HOLE	7	47	PUBLIC SUPPLY
248735		SUTTON HILLS LIMITED	41.31639	-75.98750	600	OPEN HOLE	55	124	PUBLIC SUPPLY
248736		CHERONES MOBILEHOME PARK	41.02530	-75.89670	160		25	0	PUBLIC SUPPLY
248737		CEDAR LANES ASSOCIATION, INC.	41.33056	-75.91111	698		20	85	PUBLIC SUPPLY
248738		DAMENTI'S	41.07720	-75.95860	250		0	0	COMMERCIAL
248739		DAMENTI'S	41.07720	-75.95860	350		0	0	COMMERCIAL
248740		STAGE COACH INN	41.07220	-75.96640	135		0	0	COMMERCIAL
248741		VALLEY HOTEL	41.02080	-75.96360	100		0	0	COMMERCIAL
248742		IVANHOE RESTAURANT & LOUNGE	41.01580	-75.96500	160		0	0	COMMERCIAL
248743		HOTEL DENKE	41.00560	-75.97250	225		0	0	COMMERCIAL
248744		BUTLER TWP FIRE CO INC	41.02170	-75.95110	140		0	40	FIRE
248745		PALERMO'S PASTA HOUSE	41.01940	-75.96190	215		0	60	COMMERCIAL
248747		WILKES BARRE MUNIC GOLF COURSE	41.19028	-75.80639	250	OPEN END	1	0	COMMERCIAL
248748		BEAR CREEK INN	41.18280	-75.76220	120	OPEN END	0	0	COMMERCIAL
248749		EMER LEGION MOUNTAIN POST 781	41.13000	-75.94830	300		0	0	COMMERCIAL
248750		NEW BACK MOUNTAIN BOWL	41.34111	-75.98417	125		0	0	COMMERCIAL
248751		DALLAS SENIOR HIGH SCHOOL	41.34667	-75.96333	297		0	0	INSTITUTIONAL
248752		DALLAS SENIOR HIGH SCHOOL	41.34472	-75.95528	367		0	0	INSTITUTIONAL
248753		KANDLE-LITE MOTEL & LOUNGE	41.32194	-75.91083	400		0	0	COMMERCIAL
248754		FRANCES SLOCUM STATE PARK	41.33639	-75.89194	450	SCREEN	178	0	PUBLIC SUPPLY
248755		FRANCES SLOCUM STATE PARK	41.33639	-75.89000	450	SCREEN	433	0	PUBLIC SUPPLY
248756		IREM TEMPLE COUNTRY CLUB	41.35972	-75.97389	275		0	0	COMMERCIAL
248757		IREM TEMPLE COUNTRY CLUB	41.35972	-75.97444	350		0	0	COMMERCIAL
248758		COUSIN BILLS	41.36972	-75.97111	150		0	0	COMMERCIAL
248759		ROLLAWAY	41.34139	-75.98361	185		0	0	COMMERCIAL
248760		THE APPLETREE TERRACE	41.32917	-75.95361	300		0	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
248761		OVERBROOK RESTAURANT	41.32194	-75.95639	400		0	0	COMMERCIAL
248762		FARMERS INN	41.29639	-75.95167	110		0	0	COMMERCIAL
248763		TWIN OAKS GOLF COURSE	41.38889	-75.90556	325		0	0	COMMERCIAL
248764		KIRBY EPISCOPAL HOUSE	41.14920	-75.86110	660		0	0	INSTITUTIONAL
248765		COUNTRY PUB	41.15580	-75.98330	165		0	0	COMMERCIAL
248766		RICE ELEMENTARY SCHOOL	41.14500	-75.97170	275		9	0	INSTITUTIONAL
248767		ORLOSKI QUIK MART I80&RTE309	41.05440	-75.96030	230		15	0	COMMERCIAL
248768		FAMILY RESTAURANT	41.11310	-75.91530	100		0	0	COMMERCIAL
248769		BOBBY D'S	41.04530	-75.78080	75		0	20	COMMERCIAL
248770		CHARLIE WEAVER'S BAR & REST.	41.07940	-75.79190	125		0	0	COMMERCIAL
248771		ECONO LODGE	41.05720	-75.96220	365		0	0	COMMERCIAL
248772		ECONO LODGE	41.05720	-75.96190	365		0	0	COMMERCIAL
248773		CAMP ORCHARD HILL	41.39222	-75.92306	200		0	0	COMMERCIAL
248774		HUNTSVILLE CHRISTIAN CHURCH %	41.30694	-75.97667	167		0	0	INSTITUTIONAL
248775		BEAR CREEK CAMP	41.21472	-75.75528	275	SCREEN	0	0	PUBLIC SUPPLY
248776		BEAR CREEK CAMP	41.21333	-75.75528	400	SCREEN	0	0	PUBLIC SUPPLY
248777		BEAR CREEK CAMP	41.21389	-75.75250	450	SCREEN	0	85	PUBLIC SUPPLY
248779		SANDY VALLEY CAMPGROUND	41.00830	-75.83860	400	OPEN HOLE	0	200	PUBLIC SUPPLY
248780		SANDY VALLEY CAMPGROUND	41.00860	-75.83750	365	OPEN HOLE	0	0	PUBLIC SUPPLY
248781		EDGEWOOD IN THE PINES	41.03560	-75.96830	200	OPEN HOLE	30	120	COMMERCIAL
248782		ORLOSKI QUIK MART BEAR CREEK	41.20444	-75.78972	150	OPEN END	12	44	COMMERCIAL
248783		COUNTRYSIDE INN	41.35139	-75.95028	197		0	0	COMMERCIAL
248784		SAFTEY REST AREA SITE #39	41.05470	-75.83860	350		20	45	PUBLIC SUPPLY
248785		SAFETY REST SITE #53	41.10310	-75.96030	206		25	0	PUBLIC SUPPLY
248786		SAFTEY REST AREA SITE #54	41.13080	-75.96360	270		10	0	PUBLIC SUPPLY
248787		ORLOSKI QUIK MART	41.02140	-75.96420	360		0	50	COMMERCIAL
248788		TRIPLE B STEAKS & MORE	41.33139	-75.95222	408		0	0	COMMERCIAL
248789		CARMEN'S COUNTRY INN	41.01890	-75.91920	250		20	100	COMMERCIAL
248790		DRUMS FUEL STOP INC.	41.05140	-75.95920	162		0	56	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
248791		CLEARBROOK MANOR	41.22000	-75.84810	600		8	0	PUBLIC SUPPLY
248792		CLEARBROOK MANOR	41.21860	-75.84440	100		8	0	PUBLIC SUPPLY
248793		CLEARBROOK MANOR	41.21860	-75.84440	800		8	0	PUBLIC SUPPLY
248794		DALLAS SHOPPING CENTER	41.33222	-75.95389	210		1	0	COMMERCIAL
248795		SPRINGTOWN SALOON	41.07810	-75.97810	226		0	0	COMMERCIAL
248796		HARVEY'S LAKE YACHT CLUB	41.33110	-75.95220	110		0	0	COMMERCIAL
248797		HARVEY'S LAKE YACHT CLUB	41.33110	-75.95220	185		0	0	COMMERCIAL
248798		J R'S TAVERN	41.04560	-75.78140	600		36	50	COMMERCIAL
248799		CHATTERBOX SPORTS BAR	41.01830	-75.88500	110		0	0	COMMERCIAL
248800		J & J DELI & BAKERY	41.33833	-75.96806	186		0	0	COMMERCIAL
248801		ORLOSKI'S QUIK MART #7	41.15170	-75.96250	225		25	225	COMMERCIAL
248802		DYMOND'S FARM MARKET	41.32333	-75.94417	165		0	0	COMMERCIAL
248803		RITTENHOUSE PLACE LTD.	41.01110	-75.96560	283	GRAVEL PACK W/ SCREEN	0	0	COMMERCIAL
248804		SMALL WONDERS DAY CARE	41.32194	-75.91500	350		0	0	COMMERCIAL
248805		PALUCK'S FOOD CONCESSION'S	41.15500	-75.97830	120		0	0	COMMERCIAL
248806		COURY'S	41.28417	-75.96417	120	GRAVEL PACK W/ SCREEN	7	0	COMMERCIAL
248807		MICKEY'S GOLF CENTER	41.08670	-75.91190	183	OPEN HOLE	20	120	COMMERCIAL
248808		MOTOR AGE	41.01110	-75.96560	323	OPEN HOLE	0	0	COMMERCIAL
248810		SITKO'S BARN	41.19670	-75.78640	300	OPEN HOLE	2	40	COMMERCIAL
248811		KISENWETHER'S RESTAURANT	41.05420	-75.96190	200	OPEN HOLE	100	120	COMMERCIAL
248812		LUZERNE COUNTY FAIRGROUNDS	41.33417	-75.99556	400	OPEN HOLE	0	80	INSTITUTIONAL
248813		ROD'S DELI	41.01750	-75.99890	100		0	0	COMMERCIAL
248814		ORLOSKI'S QUIK MART	41.33139	-75.95444	300	OPEN HOLE	0	70	COMMERCIAL
248815		BLUE RIDGE PLAZA	41.06940	-75.97030	0		20	0	COMMERCIAL
248816		COUNTRY CORNERS GENERAL STORE	41.04110	-75.95470	225	OPEN HOLE	20	40	COMMERCIAL
248817		BEAR CREEK CAFE	41.17720	-75.75560	0		30	0	COMMERCIAL
248818		THREE SPRINGS WATER CO.	41.20920	-75.86080	0		42	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
249593		FREEMAN'S MHP	41.40190	-75.98170	340		17	60	PUBLIC SUPPLY
249597		SMITH'S STORE	41.41030	-75.99780	60		0	0	COMMERCIAL
249611		SPRINGHILL MOBILE HOME PARK	41.06810	-75.75670	175		0	0	PUBLIC SUPPLY
249612		SPRINGHILL MOBILE HOME PARK	41.06830	-75.75640	200		0	0	PUBLIC SUPPLY
249618		HICKORY RUN FAMILY RESTAURANT	41.06250	-75.74940	175		3	0	COMMERCIAL
249632		RICHIE'S HOUSE OF STEAK, INC.	41.06750	-75.74720	325		0	0	COMMERCIAL
249633		MCDONALD'S	41.07110	-75.70250	0		35	0	COMMERCIAL
249637		OSRAM SYLVANIA	41.00000	-76.00000	0		0	0	COMMERCIAL
249638		PHYSICIAN CARE - WYSOX	41.00000	-76.00000	0		0	0	COMMERCIAL
249654		VALLEY STREAM MOBILE HM VILLAG	41.12000	-75.95861	0		0	0	COMMERCIAL
249655		UNITED WATER PA SHAVERTOWN	41.32611	-75.94028	0		0	0	PUBLIC SUPPLY
249656		HILLSIDE CONDOMINIUMS	41.32944	-75.95500	0	OPEN HOLE	0	0	COMMERCIAL
249657		ST.PAUL'S UNITED METHODIST CH.	41.01805	-75.99444	0		0	0	INSTITUTIONAL
249658		PENN GENERAL FOOD MART	41.34167	-75.99306	0		0	0	COMMERCIAL
249661		COMIC MEISTER	41.01111	-75.96555	0		0	0	COMMERCIAL
250019		CONYNGHAM WATER CO	40.98890	-76.07420	442	OPEN HOLE	122	18	PUBLIC SUPPLY
250020		CONYNGHAM WATER CO	40.99720	-76.05500	400	OPEN HOLE	80	31	PUBLIC SUPPLY
250021		SMITTY'S MIDWAY	40.94170	-76.16750	90		0	0	COMMERCIAL
250022		SALLY PURSELL'S COUNTRY INN	40.98360	-76.15310	150		200	0	COMMERCIAL
250023		VALLEY COUNTRY CLUB	40.99220	-76.04310	90		86	100	COMMERCIAL
250024		VALLEY COUNTRY CLUB	40.98500	-76.03940	200		6	53	COMMERCIAL
250025		VALLEY COUNTRY CLUB	40.98750	-76.03750	280		30	0	COMMERCIAL
250026		ROSSI BAR AND RESTAURANT	40.98190	-76.02610	185		2	0	COMMERCIAL
250027		ANNE MCLAUGHLIN'S CHILD CARE	40.99890	-76.08420	120		150	55	COMMERCIAL
250028		HUMBOLDT INDUSTRIAL PARK	40.92720	-76.06140	775		50	0	COMMERCIAL
250029		HUMBOLDT INDUSTRIAL PARK	40.93140	-76.05640	495		200	0	COMMERCIAL
250030		HUMBOLDT INDUSTRIAL PARK	40.92750	-76.05190	545		119	0	COMMERCIAL
250031		HUMBOLDT INDUSTRIAL PARK	40.92500	-76.04940	500	OPEN HOLE	185	0	COMMERCIAL
250032		HUMBOLDT INDUSTRIAL PARK	40.92690	-76.04170	256		200	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250033		HUMBOLDT INDUSTRIAL PARK	40.93310	-76.03280	500		50	0	COMMERCIAL
250034		HUMBOLDT INDUSTRIAL PARK	40.92220	-76.01720	600	OPEN HOLE	150	0	COMMERCIAL
250035		TOM'S KITCHEN	40.99440	-76.07030	260		0	0	COMMERCIAL
250036		ALLIED SERVICES WORK MED	40.97920	-76.01280	184		0	0	INSTITUTIONAL
250037		GOULD'S IGA	40.99640	-76.07000	300		0	0	COMMERCIAL
250038		STEWART'S ROOT BEER D I REST	40.99890	-76.07250	220		0	150	COMMERCIAL
250039		BELL OF PA	40.98720	-76.01440	190		10	0	COMMERCIAL
250040		TAVERN IN THE GLEN	40.96330	-76.16970	160	OPEN HOLE	125	14	COMMERCIAL
250041		ROCK GLEN PARK & POOL COMPLEX	40.96940	-76.18780	248		0	0	COMMERCIAL
250042		PANTRY QUIK	40.98750	-76.06610	200		126	0	COMMERCIAL
250043		93 PLAZA	40.99030	-76.06640	185		8	30	COMMERCIAL
250044		GEORGE ERNST MEMORIAL POOL	40.99250	-76.05920	125		0	10	COMMERCIAL
250045		VALLEY VIEW HOTEL	40.94080	-76.17330	250	OPEN HOLE	15	120	COMMERCIAL
250046		GERRIE'S FITNESS CENTER	40.99780	-76.06890	215	OPEN HOLE	300	30	COMMERCIAL
250047		GROWI YEARS CHILD CARE CTR INC	40.98920	-76.06920	520	OPEN HOLE	0	200	COMMERCIAL
250048		HAZLETON CITY AUTH WATER DEPT.	40.94940	-76.06030	300		139	20	PUBLIC SUPPLY
250049		HAZLETON CITY AUTH WATER DEPT.	40.95030	-76.06030	580		250	40	PUBLIC SUPPLY
250050		HAZLETON CITY AUTH WATER DEPT.	40.91750	-76.02830	292		100	50	PUBLIC SUPPLY
250051		HAZLETON CITY AUTH WATER DEPT.	40.92500	-76.02750	425		450	30	PUBLIC SUPPLY
250052		HAZLETON CITY AUTH WATER DEPT.	40.98110	-76.02530	400		300	30	PUBLIC SUPPLY
250053		HAZLETON CITY AUTH WATER DEPT.	40.92720	-76.02330	402		200	20	PUBLIC SUPPLY
250054		HAZLETON CITY AUTH WATER DEPT.	40.98060	-76.02000	400		300	30	PUBLIC SUPPLY
250055		HAZLETON CITY AUTH WATER DEPT.	40.92890	-76.01860	277		300	10	PUBLIC SUPPLY
250056		HAZLETON CITY AUTH WATER DEPT.	40.93080	-76.00310	250		400	0	PUBLIC SUPPLY
250057		HAZLETON CITY AUTH WATER DEPT	40.97000	-76.09030	150		25	60	PUBLIC SUPPLY
250058		HAZLETON CITY AUTH WATER DEPT	40.95500	-76.14810	170		30	0	PUBLIC SUPPLY
250084		MAHANOY TWP AUTH	40.84690	-76.12580	333		300	15	PUBLIC SUPPLY
250085		EAGLE ROCK COMMUNITY ASSOC.	40.90500	-76.12580	715		119	0	PUBLIC SUPPLY
250086		EAGLE ROCK COMMUNITY ASSOC.	40.92390	-76.11030	605		44	68	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250088		NUREMBURG WATER CO	40.93860	-76.17310	235		0	0	PUBLIC SUPPLY
250089		NUREMBURG WATER CO	40.93830	-76.17250	193		0	0	PUBLIC SUPPLY
250096		ASHLAND AREA WATER AUTHORITY	40.77500	-76.25250	450		180	0	PUBLIC SUPPLY
250097		PA AM WATER CO-FRACKVILLE DIST	40.78640	-76.23470	402		150	120	PUBLIC SUPPLY
250098		PA AM WATER CO-FRACKVILLE DIST	40.77780	-76.23250	450		150	250	PUBLIC SUPPLY
250099		PA AM WATER CO-FRACKVILLE DIST	40.77750	-76.23190	500		300	125	PUBLIC SUPPLY
250100		PA AM WATER CO-FRACKVILLE DIST	40.77810	-76.23080	420		200	95	PUBLIC SUPPLY
250101		PA AM WATER CO-FRACKVILLE DIST	40.82860	-76.15860	550		175	144	PUBLIC SUPPLY
250116		SCHUYLKILL CO MUN. AUTH.	40.75140	-76.19030	0		128	0	PUBLIC SUPPLY
250117		RINGTOWN BORO WATER DEPARTMENT	40.84810	-76.22140	500		131	0	PUBLIC SUPPLY
250118		MELANIE MANOR MOBILE HOME PARK	40.86750	-76.22080	290		0	0	PUBLIC SUPPLY
250133		IRVIN'S CAFE	40.89720	-76.11830	85		0	0	COMMERCIAL
250136		LEGION MAPLE CLUB	40.85170	-76.03750	90		0	0	COMMERCIAL
250139		WHEELABRATOR FRACKVILLE ENERGY	40.78190	-76.17720	200		30	0	COMMERCIAL
250144		HAPPY LOUIE'S	40.86500	-76.19580	52		1	0	COMMERCIAL
250146		WANDA KENESKY	40.81190	-76.04250	100		0	0	COMMERCIAL
250147		MOUNTAIN VALLEY LODGE	40.79000	-76.12330	400		2	0	COMMERCIAL
250148		WALT'S DRIVE IN	40.85560	-76.00060	150		0	0	COMMERCIAL
250149		WHITE BIRCH GOLF COURSE	40.80940	-76.03030	680		0	0	COMMERCIAL
250150		LAKESIDE BAR AND GRILLE	40.81440	-76.04420	100		0	0	COMMERCIAL
250154		JOHN B. RICH MEM POWER STATION	40.78970	-76.19330	450		49	0	COMMERCIAL
250155		JOHN B. RICH MEM POWER STATION	40.79080	-76.18970	450		49	0	COMMERCIAL
250156		BLUE MOON TAVERN	40.89280	-76.11780	40		1	0	COMMERCIAL
250157		QUAKAKE VOLUNTEER FIRE COMPANY	40.85220	-76.03390	75		0	0	COMMERCIAL
250161		MARIAN HIGH SCHOOL	40.82750	-76.01670	250		0	0	INSTITUTIONAL
250165		ASHLAND REGIONAL MED CENTER	40.77110	-76.33560	0		75	0	COMMERCIAL
250166		COUNTRY ROAD DELI &CONVENIENCE	40.84670	-76.24860	200		0	0	COMMERCIAL
250168		STEWARD'S STORE	40.89750	-76.11780	100		0	0	COMMERCIAL
250173		BANQUET HOTEL	40.85030	-76.24940	65		55	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250175		TITUS MINI MART	40.85610	-76.00060	220		30	30	COMMERCIAL
250179		WHITE BIRCH - THE HUT	40.81170	-76.03810	485		0	0	COMMERCIAL
250202		SPRING HILL FARM, INC	40.75330	-76.34330	90		24	0	COMMERCIAL
250203		WONDERVIEW WATER CO	40.99860	-76.40190	0		14	0	PUBLIC SUPPLY
250204		HERITAGE HILLSIDE ESTATES	40.97530	-76.50690	0		24	0	PUBLIC SUPPLY
250205		COUNTRY TERRACE ESTATES	40.99060	-76.39500	0		18	0	PUBLIC SUPPLY
250206		GEISINGER OFFICE BUILDING 2	40.97500	-76.50690	180	OPEN END	13	0	COMMERCIAL
250208		PEPPER HILLS MOBILE HOME PARK	40.96310	-76.55940	0		60	0	PUBLIC SUPPLY
250218		THREE PONDS GOLF SHOP	40.87220	-76.51720	0		1	0	COMMERCIAL
250300		MAY'S DRIVE IN	40.97500	-76.50000	0		0	0	COMMERCIAL
250301		STONE CASTLE MOTEL	40.97500	-76.52500	0		0	0	COMMERCIAL
250302		CATAWISSA AMERICAN LEGION	40.95833	-76.46667	0		0	0	COMMERCIAL
250303		TOM'S FAMILY RESTAURANT	40.94167	-76.45833	0		0	0	COMMERCIAL
250304		LAKE GLORY CAMPSITES	40.92500	-76.45833	0		0	0	COMMERCIAL
250305		SOUTHERN COLUMBIA AREA SCHOOL	40.90417	-76.49722	0		0	0	INSTITUTIONAL
250306		SOUTHERN COLUMBIA AREA SCHOOL	40.90417	-76.49722	0		0	0	INSTITUTIONAL
250307		SOUTHERN COLUMBIA AREA SCHOOL	40.90417	-76.49722	0		0	0	INSTITUTIONAL
250308		J & D CREE MEE FREEZE	40.90000	-76.49167	0		0	0	COMMERCIAL
250309		SCOTCH VALLEY RESTAURANT	40.97500	-76.26667	0		0	0	COMMERCIAL
250310		KEYSERS CAFE	40.97500	-76.37500	0		0	0	COMMERCIAL
250311		IDEAL PARK	40.93889	-76.45694	0		0	0	COMMERCIAL
250312		IDEAL PARK	40.93889	-76.45694	0		0	0	COMMERCIAL
250313		INDIAN HEAD CAMPGROUNDS	40.97722	-76.47111	0		0	0	COMMERCIAL
250314		J & D CAMPGROUND	40.90222	-76.51167	0		0	0	COMMERCIAL
250315		J & D CAMPGROUND	40.90222	-76.51167	0		0	0	COMMERCIAL
250316		J & D CAMPGROUND	40.90222	-76.51167	0		0	0	COMMERCIAL
250317		J & D CAMPGROUND	40.90222	-76.51167	0		0	0	COMMERCIAL
250318		J & D CAMPGROUND	40.90222	-76.51167	0		0	0	COMMERCIAL
250319		J & D CAMPGROUND	40.90222	-76.51167	0		0	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250320		CLEO'S INN	40.88083	-76.40222	0		0	0	COMMERCIAL
250321		CANDLELIGHT INN	40.97333	-76.52861	0		0	0	COMMERCIAL
250322		TIKI LOUNGE	40.97389	-76.52028	0		0	0	COMMERCIAL
250323		HI HO RESTAURANT	40.98000	-76.48972	0		0	0	COMMERCIAL
250324		NUMIDIA RACEWAY	40.89028	-76.40222	0		0	0	COMMERCIAL
250325		SLABTOWN MINI-MARKET & RESTAU.	40.90528	-76.41222	0		0	0	COMMERCIAL
250329		LIBERTY MART	40.98167	-76.02750	0		0	0	COMMERCIAL
250330		COMET FOOD MART	40.97833	-76.01305	0		0	0	COMMERCIAL
250332		KELLERS MOTEL	40.97055	-76.53611	0		0	0	COMMERCIAL
250333		D.A.D.E. RESTAURANT	40.97500	-76.55000	0		0	0	COMMERCIAL
250336		HUNTER'S DAIRY FREEZE	40.95972	-76.57694	0		0	0	COMMERCIAL
250337		FIRST BAPTIST CH OF DANVILLE	40.99778	-76.61611	0		0	0	INSTITUTIONAL
250338		MAGIC RIVER SKATELAND INC	40.96472	-76.55805	0		0	0	COMMERCIAL
250339		PENN MOTEL	40.96528	-76.55444	0		0	0	COMMERCIAL
250340		DANVILLE 7TH DAY ADVENTIST	40.96889	-76.56694	0		0	0	INSTITUTIONAL
250403		DADO'S CAFE	40.89778	-76.11639	0		0	0	COMMERCIAL
250406		WOLKY'S MINI MARKET	40.91555	-76.11861	0		0	0	COMMERCIAL
250412		TUSCARORA STATE PARK	40.80611	-76.02222	0		0	0	PUBLIC SUPPLY
250416		YABLONSKY MARKET	40.86528	-76.16694	0		0	0	COMMERCIAL
250423		TWIN'S INN	40.78250	-76.22333	0		0	0	COMMERCIAL
250832		BRYANTS MOBILE HOME PARK	41.31917	-76.01972	145	GRAVEL PACK W/ SCREEN	26	48	PUBLIC SUPPLY
250833		BONHAM NURSING CENTER	41.19830	-76.26530	100	GRAVEL PACK W/ SCREEN	7	0	INSTITUTIONAL
250834		BONHAM NURSING CENTER	41.19830	-76.26530	175	GRAVEL PACK W/ SCREEN	10	0	INSTITUTIONAL
250835		PENN ST WILKES BARRE CAMPUS	41.30583	-76.01639	260		35	0	PUBLIC SUPPLY
250836		PENN ST WILKES BARRE CAMPUS	41.30722	-76.01417	350	GRAVEL PACK W/ SCREEN	38	0	PUBLIC SUPPLY
250837		LAKESIDE NURSING HOME	41.34556	-76.02556	190		10	0	INSTITUTIONAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250838		SHICKSHINNY LAKE ASSOC	41.20940	-76.19720	500	GRAVEL PACK W/ SCREEN	5	55	PUBLIC SUPPLY
250839		SHICKSHINNY LAKE ASSOC	41.21280	-76.19640	277	GRAVEL PACK W/ SCREEN	10	63	PUBLIC SUPPLY
250840		COUNTRY CREST MOBILE HOME PARK	41.26944	-76.07917	240	GRAVEL PACK W/ SCREEN	8	0	PUBLIC SUPPLY
250841		COUNTRY CREST MOBILE HOME PARK	41.27083	-76.07500	320	GRAVEL PACK W/ SCREEN	12	0	PUBLIC SUPPLY
250842		BLUE JAY MOBILE HOME VILLAGE	41.37694	-76.04611	200		8	0	PUBLIC SUPPLY
250843		PLEASANT VIEW M H P	41.08670	-76.18810	300		13	0	PUBLIC SUPPLY
250844		PLEASANT VIEW M H P	41.08670	-76.18810	300		60	0	PUBLIC SUPPLY
250845		PLEASANT VIEW M H P	41.08670	-76.18500	380	OPEN HOLE	19	300	PUBLIC SUPPLY
250846		SHICKSHINNY LAKE APACHE WELL	41.21310	-76.18810	302	GRAVEL PACK W/ SCREEN	19	18	PUBLIC SUPPLY
250847		COUNTRY ESTATES M H COURT	41.11110	-76.15420	235	OPEN HOLE	20	54	PUBLIC SUPPLY
250848		EVERGREEN MOBILE HOME PARK	41.32306	-76.13000	420		3	90	PUBLIC SUPPLY
250849		EVERGREEN MOBILE HOME PARK	41.32083	-76.12806	250		15	40	PUBLIC SUPPLY
250850		SWEET VALLEY MHP	41.29944	-76.11889	247		12	112	PUBLIC SUPPLY
250851		SWEET VALLEY MHP	41.29944	-76.11889	280		12	123	PUBLIC SUPPLY
250852		WHIPPORWILL MOBILE HOME PARK	41.12970	-76.22750	100	GRAVEL PACK W/ SCREEN	15	90	PUBLIC SUPPLY
250853		SLEEPY HOLLOW MOBILE HOME PARK	41.13060	-76.22640	125	OPEN HOLE	25	0	PUBLIC SUPPLY
250854		CITIZENS WATER CO.	41.07970	-76.11860	375		50	40	PUBLIC SUPPLY
250855		CHASE CORRECTIONAL INST DALLAS	41.27833	-76.01528	500	GRAVEL PACK W/ SCREEN	300	24	INSTITUTIONAL
250856		CHASE CORRECTIONAL INST DALLAS	41.27750	-76.01167	435	GRAVEL PACK W/ SCREEN	260	46	INSTITUTIONAL
250857		CHASE CORRECTIONAL INST DALLAS	41.27278	-76.01139	360	GRAVEL PACK W/ SCREEN	80	58	INSTITUTIONAL
250858		OAKHILL WATER SUPPLY-NUI	41.34222	-76.01528	400		60	175	PUBLIC SUPPLY
250859		OAKHILL WATER SUPPLY-NUI	41.34167	-76.01361	229		17	60	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250860		OAKHILL WATER SUPPLY-NUI	41.34056	-76.01111	400		100	90	PUBLIC SUPPLY
250861		UNITED WATER PA HARVEY'S LAKE	41.35222	-76.02472	212		20	0	PUBLIC SUPPLY
250862		MAPLE HILL MANOR	41.26610	-76.07500	197		7	0	PUBLIC SUPPLY
250863		HICKORY LANE MANOR	41.28580	-76.14000	280	OPEN HOLE	7	40	PUBLIC SUPPLY
250864		LAUREL PERSONAL CARE CENTER	41.17222	-76.16583	43		25	0	PUBLIC SUPPLY
250865		FERNWOOD MANOR	41.29667	-76.12083	184		3	0	PUBLIC SUPPLY
250866		FRITZINGERTOWN SR LIV COMM #2	41.00670	-76.00030	400	OPEN HOLE	10	90	PUBLIC SUPPLY
250867		VALLEY BOWLING LANES	41.00060	-76.09190	92		0	0	COMMERCIAL
250868		DONAHUE'S FROGTOWNE GRILL	41.00140	-76.09420	80		1	0	COMMERCIAL
250869		SUGARLOAF FIRE CO	41.00170	-76.09250	80		0	0	COMMERCIAL
250870		DORRANCE INN	41.10440	-76.00890	120		0	0	COMMERCIAL
250871		LILY LAKE HOTEL	41.13670	-76.08310	180		0	155	COMMERCIAL
250872		JILLY'S	41.30861	-76.20833	275	OPEN HOLE	22	11	COMMERCIAL
250873		TRAILS END RESTAURANT	41.30472	-76.24000	550		0	0	COMMERCIAL
250874		RICKETTS GLEN HOTEL	41.29194	-76.29278	178		0	0	COMMERCIAL
250875		RICKETTS GLEN STATE PARK	41.33972	-76.28222	257		0	0	PUBLIC SUPPLY
250876		RICKETTS GLEN STATE PARK	41.34083	-76.28083	257		0	0	PUBLIC SUPPLY
250877		DEER OAK LOUNGE	41.19420	-76.30580	150		0	0	COMMERCIAL
250878		GOOD'S CAMPGROUND	41.29528	-76.28806	140		0	0	COMMERCIAL
250879		HANSON'S LAKESHORE CAMPGROUND	41.37556	-76.04417	360		0	0	COMMERCIAL
250880		LAKE LEHMAN HIGH SCHOOL	41.30972	-76.02389	210		0	0	INSTITUTIONAL
250881		LEHMAN JACKSON ELEMENTARY	41.31778	-76.02306	310		0	0	INSTITUTIONAL
250882		LAKE LEHMAN JR. HIGH SCHOOL	41.31778	-76.02306	200		0	0	INSTITUTIONAL
250883		SWEET VALLEY GOLF COURSE	41.29583	-76.12111	187		0	0	COMMERCIAL
250884		ROSS ELEMENTARY SCHOOL	41.26917	-76.15139	250		0	0	INSTITUTIONAL
250885		LAKE-NOXEN ELEMENTARY SCHOOL	41.36111	-76.06389	260		0	0	INSTITUTIONAL
250886		HUNLOCK CREEK TAVERN INC.	41.22472	-76.12444	185		0	0	COMMERCIAL
250887		O'HAWLEY'S BAR & GRILL	41.22639	-76.10500	153		10	120	COMMERCIAL
250888		JIM-MIL	41.22830	-76.15140	140		7	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250889		VILLAGE TAVERN	41.22694	-76.14000	185		8	0	COMMERCIAL
250890		COUNTRY GENTLEMAN	41.21583	-76.10056	75		0	25	COMMERCIAL
250891		HUNLOCK CREEK VOL FIRE CO	41.21056	-76.08861	96		0	0	FIRE
250892		PINE CONE DRIVE-IN	41.16690	-76.15970	310		0	0	COMMERCIAL
250893		NINO,S PIZZA PAPPY,S PLACE	41.16780	-76.16110	175		17	88	COMMERCIAL
250894		AMERICAN LEGION POST 495	41.17944	-76.19389	150		0	100	COMMERCIAL
250895		NORTHWEST SENIOR HIGH SCHOOL	41.18194	-76.19000	200		0	0	INSTITUTIONAL
250896		HUNTINGTON MILLS ELEM. SCHOOL	41.19250	-76.23280	246		42	0	INSTITUTIONAL
250897		RED BARN CAFE	41.10830	-76.13890	265		0	20	COMMERCIAL
250898		PRIME TIME RESTAURANT	41.10670	-76.13670	98		0	98	COMMERCIAL
250899		BIG B DRIVE IN	41.06560	-76.19720	100		0	0	COMMERCIAL
250900		GLEN LEE BAR GRILL	41.15390	-76.08420	100	Open End	0	0	COMMERCIAL
250901		JEAN'S RUN GOLF COURSE	41.22890	-76.16060	350		0	0	COMMERCIAL
250902		SPORTSMAN'S BAR	41.37556	-76.04750	375		0	0	COMMERCIAL
250903		MARINA CAFE	41.37360	-76.04670	200		0	0	COMMERCIAL
250904		RICH & CHARLOTTE'S	41.36167	-76.05861	250		0	0	COMMERCIAL
250905		BILL'S CAFE	41.34972	-76.03389	80		0	0	COMMERCIAL
250906		CASTLE INN, INC.	41.34361	-75.99944	120		0	0	COMMERCIAL
250907		HOLIDAY HOUSE-JEWISH COMM.CTR.	41.33972	-76.02028	502		0	0	INSTITUTIONAL
250908		LEHMAN GOLF CLUB	41.32500	-76.00694	135		0	0	COMMERCIAL
250909		OUTPOST INN	41.26972	-76.08333	180		0	0	COMMERCIAL
250910		DRUMS ELEMENTARY SCHOOL	41.01330	-76.00140	168		0	0	INSTITUTIONAL
250911		DRUMS ELEMENTARY SCHOOL	41.01330	-76.00140	300		0	0	INSTITUTIONAL
250912		CLEARBROOK LODGE	41.25220	-76.23420	725		0	0	COMMERCIAL
250913		CLEARBROOK LODGE	41.25220	-76.23420	725		0	0	COMMERCIAL
250914		MOYERS GROVE CAMPGROUND	41.05940	-76.06390	150		15	0	PUBLIC SUPPLY
250915		THE CAMP	41.06140	-76.07000	195		30	0	PUBLIC SUPPLY
250916		THE CAMP	41.06170	-76.06890	295		0	100	PUBLIC SUPPLY
250917		THE LOOKOUT HOUSE	41.03080	-76.10000	120		3	77	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250918		THE LOOKOUT HOUSE	41.03080	-76.10000	280		6	77	COMMERCIAL
250919		NORTH LAKE WATER TRUST	41.29111	-76.14583	220		0	0	PUBLIC SUPPLY
250920		OUT OF TOWN INN	41.17917	-76.19778	100		0	0	COMMERCIAL
250921		HESS'S COUNTRY CONE	41.09500	-76.11440	100		0	0	COMMERCIAL
250922		JEWISH COMMUNITY CENTER	41.33972	-76.02028	510		0	0	INSTITUTIONAL
250923		JEWISH COMMUNITY CENTER	41.34167	-76.01861	590		0	0	INSTITUTIONAL
250924		RED ROCK CAMPGROUND	41.29080	-76.30280	300		0	0	PUBLIC SUPPLY
250925		RED ROOSTER	41.30556	-76.09361	220		0	0	COMMERCIAL
250926		PMC LIFESTYLE	41.07170	-76.15670	325		50	0	COMMERCIAL
250927		MILLER'S BAR	41.02830	-76.00500	92		0	60	COMMERCIAL
250928		SORBER'S STOP & GO	41.22750	-76.14810	192		0	0	COMMERCIAL
250929		HARVEYS LAKE PFC ACCESS AREA	41.36417	-76.05889	150		50	0	COMMERCIAL
250930		SOUTHDALE CAMP	41.14530	-76.25640	300		0	0	COMMERCIAL
250931		SLOCUM DELI	41.14440	-76.02280	225		0	0	COMMERCIAL
250932		KARCHNER REF. SERVICE INC.	41.02750	-76.10390	210		22	0	COMMERCIAL
250933		LOOKOUT MOTOR LODGE	41.03080	-76.10080	300		0	0	COMMERCIAL
250934		LOOKOUT MOTOR LODGE	41.03110	-76.10000	280		10	0	COMMERCIAL
250935		EVERGREEN RACEWAY	41.02500	-76.00250	145		1	0	COMMERCIAL
250936		RED ROCK GENERAL STORE	41.28917	-76.30167	145		0	0	COMMERCIAL
250937		BUTCH'S ONE STOP	41.06810	-76.16220	140	OPEN HOLE	0	0	COMMERCIAL
250938		DAY'S INN	41.02220	-76.08060	400	OPEN HOLE	90	42	COMMERCIAL
250939		DAY'S INN	41.02220	-76.08060	500	OPEN HOLE	90	40	COMMERCIAL
250940		SUSQ STEAM ELECTRIC STAT EOF	41.08720	-76.15440	55		30	0	COMMERCIAL
250941		CEASE TERRACE WATER ASSOC	41.27639	-76.07917	200		0	0	COMMERCIAL
250942		COUNCIL CUP CAMPGROUND	41.09970	-76.10500	480		10	0	PUBLIC SUPPLY
250943		PILOT TRAVEL CENTER #298	41.02780	-76.07860	360	OPEN HOLE	100	20	COMMERCIAL
250944		JONE'S PANCAKE HOUSE	41.35333	-76.03278	125		0	0	COMMERCIAL
250945		COOKS VARIETY STORE	41.31611	-76.02306	225		3	0	COMMERCIAL
250946		ANDY'S MINI MART	41.09810	-76.00360	315	OPEN HOLE	2	270	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250947		MUHLENBURG GENERAL STORE	41.22830	-76.15860	110		0	0	COMMERCIAL
250948		DI'S DELI	41.00250	-76.07610	140	OPEN HOLE	25	8	COMMERCIAL
250949		HUNTSVILLE GOLF CLUB	41.31194	-76.01000	500		30	79	COMMERCIAL
250950		SUGARLOAF TWP MUNIC BUILDING	41.00860	-76.08060	180	OPEN HOLE	35	20	INSTITUTIONAL
250951		SONRAE MARKET	41.19030	-76.23390	0		28	0	COMMERCIAL
250952		GOOD TIME GOLF	41.04780	-76.15030	340	OPEN HOLE	8	220	COMMERCIAL
250953		PUMP & PANTRY	41.30528	-76.09722	400	OPEN HOLE	0	60	COMMERCIAL
250954		PIKES CREEK PARK	41.30722	-76.08167	117	OPEN HOLE	0	12	COMMERCIAL
250955		SANDY BEACH INN	41.33333	-76.03333	225	OPEN HOLE	0	0	COMMERCIAL
250956		PP&L SUSQUEHANNA S&A WELLS	41.09170	-76.14860	75		50	0	COMMERCIAL
250957		PP&L SUSQUEHANNA S&A WELLS	41.09170	-76.14860	75		50	0	COMMERCIAL
250958		RIVERLANDS RECREATION CENTER	41.09940	-76.13580	105		30	0	COMMERCIAL
250959		ENERGY INFORMATION CENTER	41.10190	-76.12080	100	OPEN END	15	0	COMMERCIAL
250960		RED ROCK JOB CORPS CENTER	41.35889	-76.29306	480		33	0	INSTITUTIONAL
250961		RED ROCK JOB CORPS CENTER	41.35917	-76.29306	480		33	0	INSTITUTIONAL
250962		RED ROCK JOB CORPS CENTER	41.35889	-76.29389	480		33	0	INSTITUTIONAL
250974		UNITED WATER PA NOXEN	41.41690	-76.06220	237		30	27	PUBLIC SUPPLY
250975		MONROE NOXEN MEDICAL CENTER	41.42639	-76.02500	200		50	0	COMMERCIAL
250976		MEL'S DINER	41.41833	-76.06806	167		0	0	COMMERCIAL
250980		ORANGEVILLE MUNICIPAL WATER AU	41.07670	-76.41060	0		28	0	PUBLIC SUPPLY
250981		MIFFLIN TWP MA	41.03720	-76.29720	0		299	0	PUBLIC SUPPLY
250982		BROOKSIDE VILLAGE	41.04920	-76.35970	0		11	0	PUBLIC SUPPLY
250983		BROOKSIDE VILLAGE	41.04920	-76.35970	0		50	0	PUBLIC SUPPLY
250984		BROOKSIDE VILLAGE	41.04920	-76.35860	0		10	0	PUBLIC SUPPLY
250985		STONY BROOK COURT	41.04530	-76.42310	0		25	0	PUBLIC SUPPLY
250986		STONY BROOK COURT	41.04530	-76.42310	0		33	0	PUBLIC SUPPLY
250987		MOUNTAIN VIEW ETATES	41.02390	-76.23920	0		15	0	PUBLIC SUPPLY
250988		GETHSEMANE R.C. & R.C.	41.03780	-76.41330	0		38	0	INSTITUTIONAL
250989		ORANGEVILLE N & R CENTER	41.07500	-76.41670	0		26	0	INSTITUTIONAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
250990		HELLER'S MOBILE HOME PARK	41.07250	-76.30190	400	OPEN END	11	0	PUBLIC SUPPLY
250991		HELLER'S MOBILE HOME PARK	41.07110	-76.30000	150	OPEN END	10	0	PUBLIC SUPPLY
250992		MATRIX DEVELOPMENT INC.	41.03920	-76.28560	0		15	0	PUBLIC SUPPLY
250993		PLEASANT VIEW ESTATES	41.03000	-76.33330	0		24	0	PUBLIC SUPPLY
250994		PLEASANT VIEW ESTATES	41.03000	-76.33110	0		11	0	PUBLIC SUPPLY
250995		PLEASANT VIEW ESTATES	41.03030	-76.33110	0		8	0	PUBLIC SUPPLY
250996		BRIAR CREEK RESTAURANT	41.04190	-76.30310	0		15	0	COMMERCIAL
250997		PERKINS FAMILY RESTAURANT	41.01610	-76.48530	0		12	0	COMMERCIAL
250998		SHORT STOP MART	41.04000	-76.42330	165	OPEN END	0	0	COMMERCIAL
250999		DIEHL'S FARM MARKET	41.05830	-76.58420	385	OPEN HOLE	0	0	COMMERCIAL
251000		MELONIE'S KOLD KUP	41.10080	-76.37390	61	OPEN END	0	0	COMMERCIAL
251001		WISE FOODS INC.	41.04940	-76.25000	160	OPEN HOLE	600	0	COMMERCIAL
251002		DAIRY QUEEN	41.01500	-76.40280	0		25	0	COMMERCIAL
251003		BURGER KING 8697	41.01720	-76.48810	0		100	0	COMMERCIAL
251004		WENDY'S	41.00940	-76.42220	0		40	0	COMMERCIAL
251005		BLOOMSBURG STATE POLICE	41.03750	-76.36030	0		12	0	PUBLIC SUPPLY
251050		SHADY OAKS MOBILE HOME PARK	41.04250	-76.62360	0		22	0	PUBLIC SUPPLY
251065		CENTRAL PARK HOTEL	41.29167	-76.37500	0		0	0	COMMERCIAL
251066		ELK GROVE INN	41.30583	-76.40222	0		0	0	COMMERCIAL
251067		WISPERING PINES CAMPING ESTATE	41.15000	-76.30000	0		0	0	COMMERCIAL
251068		HICKORY JOE'S	41.10833	-76.36667	0		0	0	COMMERCIAL
251069		SAVAGE HOLLOW TAVERN	41.09167	-76.40833	0		0	0	COMMERCIAL
251070		NOR-POLE RESTAURANT	41.09167	-76.40833	0		0	0	COMMERCIAL
251071		MORTGAGED INN	41.20833	-76.37500	0		0	0	COMMERCIAL
251072		THE INN UNDER	41.20833	-76.38333	0		0	0	COMMERCIAL
251073		HERITAGE HOUSE RESTAURANT	41.07500	-76.35000	0		0	0	COMMERCIAL
251074		UNCLE NICK'S BRIAR VALLEY RES.	41.05972	-76.29944	0		0	0	COMMERCIAL
251075		DENNY'S	41.03333	-76.42500	0		0	0	COMMERCIAL
251076		QUALITY INN AT BUCKHORN	41.00833	-76.49167	0		0	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
251077		NUTAITIS INN	41.05833	-76.29444	0		0	0	COMMERCIAL
251078		COBBLESTONE INN	41.03333	-76.33333	0		0	0	COMMERCIAL
251079		BURGER KING	41.00833	-76.43333	0		0	0	COMMERCIAL
251080		ROMEO'S DRIVE IN	41.01667	-76.40833	0		0	0	COMMERCIAL
251081		TENNY TOWN MOTEL	41.01667	-76.39167	0		0	0	COMMERCIAL
251082		FRANS DAIRY BAR	41.12500	-76.54167	0		0	0	COMMERCIAL
251083		HOTEL IOLA	41.13333	-76.53333	0		0	0	COMMERCIAL
251084		BASSETT'S	41.06667	-76.50000	0		0	0	COMMERCIAL
251085		PARADISE ISLE	41.05833	-76.49167	0		0	0	COMMERCIAL
251086		LIGHTSTREET HOTEL	41.03333	-76.42389	0		0	0	COMMERCIAL
251087		HEINZ PET PRODUCTS	41.02500	-76.34167	0		0	0	COMMERCIAL
251088		WILLOW RUN INN	41.05000	-76.29167	0		0	0	COMMERCIAL
251089		JERSEYTOWN TAVERN	41.09167	-76.58333	0		0	0	COMMERCIAL
251090		TURNERS HIGH VIEW CAMPING AREA	41.02778	-76.47083	0		0	0	COMMERCIAL
251091		TURNERS HIGH VIEW CAMPING AREA	41.02778	-76.47083	0		0	0	COMMERCIAL
251092		CAMP LAVIGNE	41.24167	-76.37639	0		0	0	PUBLIC SUPPLY
251093		CAMP LAVIGNE	41.24167	-76.37639	0		0	0	PUBLIC SUPPLY
251094		CAMP LAVIGNE	41.24167	-76.37639	0		0	0	PUBLIC SUPPLY
251095		GRASSMERE PARK CAMPGROUND	41.27722	-76.37500	0		0	0	COMMERCIAL
251096		GRASSMERE PARK CAMPGROUND	41.27722	-76.37500	0		0	0	COMMERCIAL
251097		ROUNDY'S PLACE	41.14167	-76.53333	0		0	0	COMMERCIAL
251098		FORT RICKETTS POST 8317	41.21583	-76.37167	0		0	0	COMMERCIAL
251099		PENNDOT-SITE 37 MODERN REST AR	41.00833	-76.25139	0		0	0	COMMERCIAL
251100		PENNDOT-SITE 38 MODERN REST AR	41.00917	-76.24861	0		0	0	COMMERCIAL
251101		NANA'S DINER	41.10139	-76.37972	0		0	0	COMMERCIAL
251102		EASTERN PA CHRISTIAN SERVICE	41.12917	-76.35972	0		0	0	INSTITUTIONAL
251103		CAMP LOUISE	41.11778	-76.27028	0		0	0	COMMERCIAL
251105		BERWICK GOLF CLUB	41.06778	-76.26194	0		0	0	COMMERCIAL
251106		BER-VAUGHN PARK	41.04805	-76.27889	0		0	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
251107		CHINA QUEEN	41.01055	-76.41667	0		0	0	COMMERCIAL
251108		TERRAPIN'S CANTINA	41.01944	-76.38472	0		0	0	COMMERCIAL
251109		RIDGWAY'S	41.02361	-76.42278	0		0	0	COMMERCIAL
251110		MILL RACE GOLF & CAMP. RESORT	41.21444	-76.37528	0		0	0	COMMERCIAL
251111		MILL RACE GOLF & CAMP. RESORT	41.21750	-76.37500	0		0	0	COMMERCIAL
251112		MILL RACE GOLF & CAMP. RESORT	41.21833	-76.37528	0		0	0	COMMERCIAL
251113		TWIN BRIDGES PARK	41.10694	-76.35639	0		0	0	COMMERCIAL
251114		INN AT TURKEY HILL	41.02500	-76.42667	0		0	0	COMMERCIAL
251115		INN AT TURKEY HILL	41.02500	-76.42667	0		0	0	COMMERCIAL
251116		FORT MCCLURE VFW POST 804	41.02806	-76.48111	0		0	0	COMMERCIAL
251117		BERWICK AREA POOL	41.05000	-76.27861	0		0	0	COMMERCIAL
251118		WESTERN SIZZLIN STEAK HOUSE	41.01639	-76.48972	0		0	0	COMMERCIAL
251119		BONANZA FAMILY RESTAURANT	41.04694	-76.27278	0		0	0	COMMERCIAL
251120		WOLFEY'S PIZZA DEN	41.02305	-76.37278	0		0	0	COMMERCIAL
251121		PINE GROVE RESTAURANT & LOUNGE	41.16139	-76.53806	0		0	0	COMMERCIAL
251122		COASTAL MART 7419	41.02555	-76.42806	0		0	0	COMMERCIAL
251123		ARNOLD'S GOLF COURSE	41.02305	-76.32028	0		0	0	COMMERCIAL
251124		WENDY'S OLD FASH HAMBURGERS	41.01611	-76.48944	0		0	0	COMMERCIAL
251125		BRASS PELICAN	41.30583	-76.40222	0		0	0	COMMERCIAL
251126		ECONO LODGE OF BLOOMSBURG	41.01611	-76.48611	0		0	0	COMMERCIAL
251127		GUMP'S COUNTRY STORE	41.08972	-76.57778	0		0	0	COMMERCIAL
251128		HESS MARKET	41.08722	-76.40639	0		0	0	COMMERCIAL
251129		LONG JOHN SILVER'S 3655	41.00583	-76.43361	0		0	0	COMMERCIAL
251130		KENTUCKY FRIED CHICKEN	41.01639	-76.48722	0		0	0	COMMERCIAL
251131		ARTHUR BARDO POST 564	41.12694	-76.54028	0		0	0	COMMERCIAL
251132		MAUSTELLER'S MARKET	41.05417	-76.27500	0		0	0	COMMERCIAL
251133		CAMP VICTORY	41.11944	-76.49194	0		0	0	COMMERCIAL
251134		CAMP VICTORY	41.11944	-76.49194	0		0	0	COMMERCIAL
251135		BENTON FOUNDRY, INC.	41.26139	-76.34722	0		0	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
251136		TRAVELPORT-SUBWAY	41.01528	-76.49222	0		0	0	COMMERCIAL
251137		WELLER'S	41.14833	-76.31667	0		0	0	COMMERCIAL
251138		BLOOMSBURG CHRISTIAN SCHOOL	41.03722	-76.40167	0		0	0	INSTITUTIONAL
251139		CCRA REALESTATE MGT.-1 INC.	41.02722	-76.40361	0		0	0	COMMERCIAL
251140		DIEHL'S COUNTRY GIFTS	41.05806	-76.58555	0		0	0	COMMERCIAL
251141		ORLOSKI QUIK MART 231	41.01528	-76.49222	0		0	0	COMMERCIAL
251142		UNITED WATER PA HARVEY'S LAKE	41.35222	-76.02472	0		0	0	PUBLIC SUPPLY
251143		RICKETTS GLEN STATE PARK	41.33611	-76.29194	0		0	0	PUBLIC SUPPLY
251144		RICKETTS GLEN STATE PARK	41.33611	-76.29194	0		0	0	PUBLIC SUPPLY
251145		RICKETTS GLEN STATE PARK	41.33611	-76.29194	0		0	0	PUBLIC SUPPLY
251146		TEXACO FOOD MART	41.04028	-76.08028	0		0	0	COMMERCIAL
251147		COOPER'S HIDDEN LAKE CAMPSITE	41.21611	-76.19861	0		0	0	COMMERCIAL
251148		CALVARY BIBLE CHAPEL	41.25028	-76.15778	0		0	0	INSTITUTIONAL
251149		H&W OIL CO DBA MOTOR-VU DRIVE	41.04417	-76.13944	0		0	0	COMMERCIAL
251150		RED ROCK MINI MART	41.28972	-76.30111	0	OPEN HOLE	0	0	COMMERCIAL
251151		SMITHS MKT	41.24444	-76.23333	0	OPEN HOLE	0	0	COMMERCIAL
251152		COMMUNIT BIBLE CHURCH	41.30000	-76.03333	0		0	0	INSTITUTIONAL
251153		TWIST N' SHAKE	41.30000	-76.01667	0	OPEN HOLE	0	0	COMMERCIAL
251160		ROBBIN'S COUNTRY CORNER	41.25000	-76.52417	0		0	0	COMMERCIAL
251185		MCCARTY'S FINISH LINE	41.23944	-76.51889	0		0	0	COMMERCIAL
251188		HEMLOCK VALLEY CAMPGROUND	41.24167	-76.56750	0		0	0	COMMERCIAL
251204		UNITY MARKET	41.23167	-76.51583	0		0	0	COMMERCIAL
251205		DONNA'S PLACE	41.24861	-76.52111	0		0	0	COMMERCIAL
251211		NORTH MONTOUR SPORTSMANS ASSOC	41.09167	-76.64167	0		0	0	INSTITUTIONAL
251245		NORDMONT CHRISTIAN CAMP	41.37833	-76.44944	0		0	0	INSTITUTIONAL
251253		NORDMONT CHRISTIAN C. - DORM 1	41.37889	-76.45167	0		0	0	INSTITUTIONAL
251254		NORDMONT CHRISTIAN C. - DORM 2	41.37889	-76.45194	0		0	0	INSTITUTIONAL
257312	8/16/1995	PP&L, Hauto SES	40.84268	-75.89853	56	SCREEN	0	0	COMMERCIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
257313	8/11/1995	PP&L, Hauto SES	40.84268	-75.89853	55	SCREEN	0	0	COMMERCIAL
257314	5/5/1994	Hauto SES	40.84263	-75.89907	55	SCREEN	0	0	INDUSTRIAL
257334	10/30/1996	KevinO'Brien	41.07917	-76.27083	200	OPEN HOLE	20	30	DOMESTIC
257421	5/10/1994	Hauto SES	40.84263	-75.89907	60	SCREEN	0	0	INDUSTRIAL
257457	9/1/1992	Giordano Mat'l Waste Site	40.77194	-76.34000	27	SCREEN	3	0	INDUSTRIAL
257458	9/1/1992	Giordano Mat'l Waste Site	40.77194	-76.34000	26	SCREEN	3	0	INDUSTRIAL
257461	6/1/1991	Moen of Pa, Inc.	40.86889	-76.39139	18	SCREEN	0	0	INDUSTRIAL
257568	3/1/1988	Fenner Manheim Plant	41.15694	-76.39694	150	OPEN HOLE	0	140	INDUSTRIAL
257593	12/15/1993	Travel Ports of America, Inc	41.01416	-76.49369	102	SCREEN	0	0	INDUSTRIAL
257640	5/1/1991	Turkey Hill	40.82045	-76.20689	18	SCREEN	1	0	INDUSTRIAL
257641	5/1/1993	Turkey Hill	40.82045	-76.20689	50	SCREEN	1	0	INDUSTRIAL
257933	8/18/1995	PP&L, Hauto SES	40.84268	-75.89853	60	SCREEN	0	0	COMMERCIAL
258196	5/1/2000	Menig	41.37000	-75.95472	340	OPEN HOLE	12	120	DOMESTIC
258331	6/1/1991	Moen of Pa, Inc.	40.86944	-76.39250	18	SCREEN	0	0	INDUSTRIAL
258333	5/1/1993	Turkey Hill	40.82045	-76.20689	18	SCREEN	1	0	INDUSTRIAL
258631	12/15/1993	Travel Ports of America, Inc	41.01416	-76.49369	102	SCREEN	3	0	INDUSTRIAL
258632	12/15/1993	Travel Ports of America, Inc	41.01416	-76.49369	112	SCREEN	0	0	INDUSTRIAL
258633	12/15/1993	Travel Ports of America, Inc	41.01416	-76.49369	102	SCREEN	0	0	INDUSTRIAL
258634	2/23/1993	DPC Foods	40.99042	-76.46100	30		0	0	
258635	2/22/1993	DPC Foods	40.99007	-76.46016	30		0	0	INDUSTRIAL
258636	2/18/1993	DPC Foods	40.99071	-76.45987	30		0	0	INDUSTRIAL
258683	10/24/1995	JohnHaussner	41.16500	-75.95083	700	OPEN HOLE	11	230	DOMESTIC
258684	4/1/1997	Carney	41.09028	-75.70222	190	OPEN HOLE	15	30	DOMESTIC
258716	5/1/1990	EdwardDubee	41.27750	-75.93306	200	OPEN HOLE	7	30	DOMESTIC
259313	12/18/1997	Vidal	41.10444	-75.85611	250	OPEN HOLE	15	60	DOMESTIC
259318	5/2/1997	Culpepper	41.03444	-75.83806	480	OPEN HOLE	12	200	DOMESTIC
259494	10/18/1997	Tamburri	41.09056	-75.70389	240	OPEN HOLE	50	119	DOMESTIC
260165	1/26/1995	Municipal Auth.Conynghoam	40.98689	-76.07868	442	OPEN HOLE	200	8	PUBLIC SUPPLY
260404	10/6/1999	Santos	41.15861	-75.98139	340	OPEN HOLE	10	60	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
260651	8/16/1994	Green Property	41.16903	-75.87741	21	SCREEN	0	0	INDUSTRIAL
260652	8/16/1994	Green Property	41.16903	-75.87741	20	SCREEN	0	0	INDUSTRIAL
260653	6/1/1992	Huntsville Golf Club	41.30639	-76.01111	300	OPEN HOLE	25	110	PUBLIC SUPPLY
260654	6/1/1992	Huntsville Golf Club	41.31222	-76.00889	300	OPEN HOLE	30	85	PUBLIC SUPPLY
260655	6/1/1992	Huntsville Golf Club	41.30583	-76.00750	525	OPEN HOLE	1	71	IRRIGATION
260732	6/1/1992	Huntsville Golf Club	41.31250	-76.00889	300	OPEN HOLE	21	72	OTHER
260836	11/18/1998	Dana	41.05583	-76.20750	54	SCREEN	0	0	OTHER
260837	11/18/1998	Dana	41.05583	-76.20750	48	SCREEN	0	0	OTHER
260838	11/18/1998	Dana	41.05583	-76.20750	54	SCREEN	0	0	OTHER
260839	11/18/1998	Dana	41.05583	-76.20750	42	SCREEN	0	0	OTHER
260840	11/15/1996	Travel Ports Of America	41.01393	-76.49297	65	SCREEN	0	0	COMMERCIAL
260928	5/1/1992	PP&L	40.96806	-76.57944	27	SCREEN	0	0	INDUSTRIAL
261027	11/1/1999	YCimmarron Homes	41.32306	-75.86694	280	OPEN HOLE	30	0	DOMESTIC
261096	8/16/1994	Green Property	41.16903	-75.87741	20	SCREEN	0	0	INDUSTRIAL
261097	8/19/1994	Green Property	41.16903	-75.87741	21	SCREEN	0	0	INDUSTRIAL
261098	2/1/1992	Huntsville Golf Club	41.31250	-76.00889	498	OPEN HOLE	90	79	PUBLIC SUPPLY
261099	6/1/1992	Huntsville Golf Club	41.31028	-76.00528	675	OPEN HOLE	6	0	IRRIGATION
261100	6/1/1992	Huntsville Golf Club	41.31139	-76.00611	600	OPEN HOLE	54	55	IRRIGATION
261101	7/1/1992	Huntsville Golf Club	41.30694	-76.00833	625	OPEN HOLE	49	43	IRRIGATION
261102	6/1/1992	Huntsville Golf Club	41.31250	-76.00944	300	OPEN HOLE	7	142	
261103	6/1/1992	Huntsville Golf Club	41.31250	-76.00889	300	OPEN HOLE	12	93	OTHER
261104	8/31/1998	Dickson	41.28722	-76.11917	180	OPEN HOLE	35	30	DOMESTIC
261105	1/7/1998	Marcinkowski	41.25361	-76.07694	150	OPEN HOLE	30	64	DOMESTIC
261106	4/1/1992	Harvey's Lake Water Co.	41.35333	-76.02361	700	OPEN HOLE	33	155	
261107	10/14/1998	Simcerbox	41.04167	-75.83278	420	OPEN HOLE	5	180	
261130	10/7/1999	Woy	41.03389	-75.82750	200	OPEN HOLE	20	60	DOMESTIC
261191	5/16/1995	Air Products & Chemicals	41.23053	-75.92638	35	OPEN HOLE	0	0	INDUSTRIAL
261192	11/14/1994	Hazelton Develo Authority	40.94967	-75.99046	41	SCREEN	0	0	PUBLIC SUPPLY
261193	11/15/1994	Hazelton Develo Authority	40.94967	-75.99046	22	SCREEN	0	0	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
261194	11/11/1994	Hazelton Develo Authority	40.94967	-75.99046	28	SCREEN	0	0	PUBLIC SUPPLY
261195	11/10/1994	Hazelton Develo Authority	40.94967	-75.99046	39	SCREEN	0	0	PUBLIC SUPPLY
261196	11/16/1994	Hazelton Develo Authority	40.94967	-75.99046	33	OPEN HOLE	0	0	PUBLIC SUPPLY
261197	11/18/1994	Hazelton Develo Authority	40.94967	-75.99046	169	OPEN HOLE	0	0	PUBLIC SUPPLY
261198	11/18/1994	Hazelton Develo Authority	40.94967	-75.99046	70	OPEN HOLE	0	0	PUBLIC SUPPLY
261199	11/15/1994	Hazelton Develo Authority	40.94967	-75.99046	35	OPEN HOLE	0	0	PUBLIC SUPPLY
261342	11/18/1998	Dana	41.05583	-76.20750	42	SCREEN	0	0	OTHER
261343	11/15/1994	Travel Ports Of America	41.01393	-76.49297	65	SCREEN	0	0	COMMERCIAL
261428	5/16/1995	Air Products & Chemicals	41.23053	-75.92638	35	OPEN HOLE	0	0	INDUSTRIAL
261429	5/16/1995	Air Products & Chemicals	41.23053	-75.92638	35	OPEN HOLE	0	0	INDUSTRIAL
261430	11/16/1994	Hazelton Develo Authority	40.94967	-75.99046	20	SCREEN	0	0	PUBLIC SUPPLY
261431	11/17/1994	Hazelton Develo Authority	40.94967	-75.99046	18	SCREEN	0	0	PUBLIC SUPPLY
261432	11/17/1994	Hazelton Develo Authority	40.94967	-75.99046	15	SCREEN	0	0	PUBLIC SUPPLY
261433	2/4/1993	PP&L	40.95944	-75.97333	21	SCREEN	1	0	PUBLIC SUPPLY
261504	6/19/1988	TRW Value	40.95944	-76.61194	23		5	0	OTHER
261595	8/9/1995	Cando Corporate Center	41.04583	-75.97306	355		300	35	INDUSTRIAL
261680	5/6/1999	Joffe	41.04139	-75.82917	200	OPEN HOLE	30	40	OTHER
261724	5/6/1999	Cunningham	41.12694	-75.91194	200	OPEN HOLE	25	10	OTHER
261858	4/15/1999	476-5625Tay	41.17278	-75.97306	420	OPEN HOLE	5	100	OTHER
262281	9/1/1989	Mount Carmel Supervisers	40.80861	-76.43861	417	SCREEN	30	0	OTHER
262282	9/1/1989	Mount Carmel Supervisors	40.80750	-76.43500	388	SCREEN	1	0	INDUSTRIAL
262283	9/1/1989	Mount Carmel Supervisors	40.80917	-76.43611	430	SCREEN	14	0	OTHER
262293	5/23/1995	Penn Fuel & Gas	40.80062	-76.41824	30	PERFORATED OR SLOTTED	0	0	INDUSTRIAL
262294	5/23/1995	Penn Fuel & Gas	40.80062	-76.41824	8	PERFORATED OR SLOTTED	0	0	INDUSTRIAL
262295	6/26/1995	Penn Fuel & Gas	40.80062	-76.41824	14	PERFORATED OR SLOTTED	0	0	INDUSTRIAL
262296	5/23/1995	Penn Fuel & Gas	40.80062	-76.41824	8	PERFORATED OR SLOTTED	0	0	INDUSTRIAL

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
262297	5/23/1995	Penn Fuel & Gas	40.80062	-76.41824	8	PERFORATED OR SLOTTED	0	0	INDUSTRIAL
414396	11/2/2005	MARLAKREMSER	40.90237	-76.33467	150	OPEN HOLE	20	0	DOMESTIC
414700	1/12/2006	RYAN HOMES	40.83667	-76.36750	300	OPEN HOLE	6	0	DOMESTIC
414710	1/11/2006	LEBANON VALLEY MOBILE HOMES	41.00806	-76.48972	200	OPEN HOLE	15	0	DOMESTIC
414803	1/19/2006	BLUE MOUNTAIN BUILDERS	40.77667	-75.93944	550	OPEN HOLE	200	0	GEOTHERMAL
414828	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	70	SCREEN	0	0	UNUSED
414853	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	20	SCREEN	0	0	UNUSED
414854	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	28	SCREEN	0	0	UNUSED
415071	12/6/2005	EDSTRATTON	40.90175	-76.57078	500	OPEN HOLE	2	0	DOMESTIC
415192	11/10/2005	MATTFETTERMAN	40.94585	-76.44750	400	OPEN HOLE	3	0	DOMESTIC
415243	11/29/2005	MICHAELDOREY	40.92827	-76.38845	300	OPEN HOLE	5	0	DOMESTIC
415247	10/17/2005	EDSTRAUB	41.09075	-76.03488	500	OPEN HOLE	2	0	DOMESTIC
415267	11/28/2005	MARTHAROMANOSKI ESTATE	40.88027	-76.40215	300	OPEN HOLE	5	0	DOMESTIC
415325	11/15/2005	NEALBAKER	40.89420	-76.34860	460	OPEN HOLE	3	0	DOMESTIC
415384	11/16/2005	JAMESZUBRITSKY	40.98063	-76.21388	200	OPEN HOLE	10	0	DOMESTIC
415472	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	25	SCREEN	0	0	UNUSED
415473	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	78	SCREEN	0	0	UNUSED
415474	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	22	SCREEN	0	0	UNUSED
415476	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	70	SCREEN	0	0	UNUSED
415509	2/10/2006	RYAN HOMES	40.82000	-76.36750	300	OPEN HOLE	3	0	DOMESTIC
415516	2/13/2006	RYAN HOMES	40.83667	-76.36750	300	OPEN HOLE	6	0	DOMESTIC
415527	2/10/2006	RYAN HOMES	40.82000	-76.36750	300	OPEN HOLE	3	0	DOMESTIC
415587	12/22/2005	RYAN HOMES	40.83667	-76.36750	500	OPEN HOLE	2	0	DOMESTIC
415611	12/22/2005	RYAN HOMES	40.83667	-76.36750	300	OPEN HOLE	10	0	DOMESTIC
415710	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	46	SCREEN	0	0	UNUSED
415711	1/18/2006	BARRON'S SUNOCO	41.03500	-76.08722	60	SCREEN	0	0	UNUSED
415712	9/16/2005	DAVEHEDRICK	41.19678	-76.46092	300	OPEN HOLE	12	0	DOMESTIC
415713	1/10/2006	SHAWNKESSLER	41.10013	-76.49375	400	OPEN HOLE	3	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
415714	1/4/2006	DAVIDTOWNSEND	40.92838	-76.45277	180	OPEN HOLE	14	0	DOMESTIC
415969	3/6/2006	RUSSELLHUGHES	41.15647	-76.31795	285	CLOSED-LOOP GEOTHERMAL	15	0	GEOTHERMAL
416007	3/1/2006	KURT WEISS GREENHOUSES, INC.	40.79940	-76.44478	100	OPEN HOLE	0	0	IRRIGATION
416036	3/9/2006	RICHARDHARTMAN	41.30425	-76.39798	200	OPEN HOLE	15	0	DOMESTIC
416042	3/9/2006	RYAN HOMES	40.83667	-76.36750	300	OPEN HOLE	7	0	DOMESTIC
416082	3/7/2006	RUSSELLHUGHES	41.15652	-76.31802	285	CLOSED-LOOP GEOTHERMAL	30	0	GEOTHERMAL
416083	1/30/2006	JOHN J.KANUTE	40.85297	-76.28818	150	OPEN HOLE	30	0	DOMESTIC
416084	11/3/2005	DEBRAMORTON	40.89230	-76.54145	325	OPEN HOLE	10	0	DOMESTIC
416105	3/17/2006	RYAN HOMES	40.83333	-76.36750	400	OPEN HOLE	3	0	DOMESTIC
416111	3/17/2006	RYAN HOMES	40.83667	-76.36917	300	OPEN HOLE	8	0	DOMESTIC
416127	3/15/2006	ANDREWMUZINO	41.02377	-76.27550	200	OPEN HOLE	15	0	DOMESTIC
416128	3/27/2006	JEANWILLIAMSON	40.96830	-76.15943	300	OPEN HOLE	20	0	DOMESTIC
416141	3/22/2006	JOHNDAY	40.96672	-76.25560	150	OPEN HOLE	100	0	DOMESTIC
416142	3/16/2006	RYAN HOMES	40.83667	-76.36750	425	OPEN HOLE	2	0	DOMESTIC
416166	3/29/2006	TODDBARTO	41.23663	-76.23548	300	OPEN HOLE	3	0	DOMESTIC
416200	3/24/2006	DAVEHESS	41.08195	-76.34442	140	OPEN HOLE	100	0	DOMESTIC
416281	4/3/2006	RYAN HOMES	40.83611	-76.36944	400	OPEN HOLE	8	0	DOMESTIC
416293	3/31/2006	RYAN HOMES	40.83667	-76.36667	325	OPEN HOLE	3	0	DOMESTIC
416303	12/28/2005	SAND SPRINGS	41.05639	-75.98333	200	OPEN HOLE	10	60	OTHER
416337	4/5/2006	NOELLINDENMUTH	40.86467	-76.38863	335	OPEN HOLE	80	0	DOMESTIC
416357	4/4/2006	CARLRHOADS	40.87098	-76.42595	150	OPEN HOLE	18	0	DOMESTIC
416377	4/17/2006	RYAN HOMES	40.83667	-76.36667	325	OPEN HOLE	15	0	DOMESTIC
417649	4/21/2003	TOMSMITH	41.07639	-76.48417	200	OPEN HOLE	100	0	DOMESTIC
417661	8/17/2006	GENEFRANK	41.24862	-76.35903	300	OPEN HOLE	6	0	DOMESTIC
417666	6/22/2004	TERRYMILLER	41.34833	-76.48417	340	OPEN HOLE	3	0	DOMESTIC
417679	10/11/2004	MIKEHUNTER	41.23028	-76.58083	500	OPEN HOLE	2	0	DOMESTIC
417884	10/3/2001	RICHARDKEELER	41.27833	-76.53667	380	OPEN HOLE	3	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
417887	10/4/2001	KATHRYNSMITH	41.27944	-76.53639	300	OPEN HOLE	25	0	
417894	12/26/2001	MELVINSWISHER	41.21528	-76.57444	460	OPEN HOLE	10	0	DOMESTIC
417896	12/11/2001	COHICK	41.28028	-76.53611	420	OPEN HOLE	5	0	
417938	9/11/2006	EARLRUSSELL	40.92875	-76.38967	300	OPEN HOLE	10	0	DOMESTIC
417939	9/15/2006	DICKDELAVENTIST	41.13162	-76.24232	200	OPEN HOLE	10	0	DOMESTIC
417940	10/11/2006	RYAN HOMES	40.82000	-76.36111	300	OPEN HOLE	10	0	DOMESTIC
417949	9/28/2006	DAVIDBROKUS	40.91072	-76.49368	300	OPEN HOLE	30	0	DOMESTIC
417962	6/8/2005	DAVESEELING	41.17139	-76.59611	225	OPEN HOLE	25	0	DOMESTIC
418001	3/7/2003	GREGORYWOODSIDE	41.27556	-76.50444	250	OPEN HOLE	0	0	DOMESTIC
418006	5/2/2003	FRANKHARVEY	41.24444	-76.59750	43	OPEN END	30	0	DOMESTIC
418007	5/2/2003	FRANKHARVEY	41.24444	-76.59750	250	OPEN HOLE	20	0	DOMESTIC
418008	5/5/2003	FREDHURLOCK	41.23417	-76.53250	300	OPEN HOLE	4	0	DOMESTIC
418020	8/15/2003	DEANWERTMAN	41.24917	-76.59472	300	OPEN HOLE	3	0	DOMESTIC
418032	10/8/2003	LYCOMING VALLEY HOMES	41.27278	-76.51250	225	OPEN HOLE	10	0	DOMESTIC
418041	7/9/2003	TOMSMITH	41.15778	-76.32000	150	OPEN HOLE	32	0	DOMESTIC
418094	9/21/2005	JERRYBAILLET	41.23861	-76.46667	175	OPEN HOLE	20	0	DOMESTIC
418101	9/7/2006	RYAN HOMES	40.83611	-76.36667	225	OPEN HOLE	20	0	DOMESTIC
418183	9/8/2006	RYAN HOMES	40.83667	-76.36667	350	OPEN HOLE	15	0	DOMESTIC
418205	7/8/2005	TERRYLITTLE	41.20472	-76.61889	250	OPEN HOLE	5	0	DOMESTIC
418209	11/8/2005	KYLEBRUNCH	41.20833	-76.61694	420	OPEN HOLE	3	0	DOMESTIC
418217	9/7/2006	RYAN HOMES	40.83611	-76.36667	225	OPEN HOLE	20	0	DOMESTIC
418253	9/12/2006	BRIANKOBILIS	40.89687	-76.40998	125	OPEN HOLE	60	0	DOMESTIC
418301	7/7/2006	MICHAELWORTHINGTON	41.21410	-76.55175	400	OPEN HOLE	7	0	DOMESTIC
418475	3/23/2006	ROARING CREEK BUILDERS, INC.	41.11548	-75.80980	220	OPEN HOLE	10	0	DOMESTIC
418487	10/18/2006	RYAN HOMES	40.82000	-76.36111	400	OPEN HOLE	4	0	DOMESTIC
418520	10/10/2006	ANTHONYTALARICO	41.41306	-76.06694	450	OPEN HOLE	8	180	DOMESTIC
418557	10/26/2006	RYAN HOMES	40.83667	-76.36667	425	OPEN HOLE	3	0	DOMESTIC
418596	12/11/2001	LEISURE LIVING	41.28861	-76.53806	420	OPEN HOLE	5	0	DOMESTIC
418598	10/18/2006	TRAVISMOWERY	40.95362	-76.31873	350	OPEN HOLE	5	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
418696	11/10/2006	PETERBELTRAMI	41.01944	-75.97472	280	OPEN END	65	147	DOMESTIC
418766	9/13/2006	JAMESGIRTON	41.00625	-76.49867	450	OPEN HOLE	3	0	DOMESTIC
418777	9/5/2006	ANDREWCWIERTNIEWICZ III	40.97535	-76.16562	175	OPEN HOLE	30	0	DOMESTIC
418779	11/24/2006	PAULPETERSEN	41.03139	-76.04083	280	OPEN END	20	55	DOMESTIC
418813	11/13/2006	MICHAELROINICK	41.03265	-76.14770	300	OPEN HOLE	5	0	DOMESTIC
418819	11/14/2006	TERRYSEANARD	41.16108	-76.34733	225	OPEN HOLE	15	0	DOMESTIC
418878	12/7/2006	FINE LINE HOMES	41.01408	-76.49757	225	OPEN HOLE	15	0	DOMESTIC
418881	10/5/2006	ADELAIDEBENSON	40.98188	-76.46983	200	OPEN HOLE	30	0	DOMESTIC
418882	10/16/2006	MONA BUILDERS	41.16770	-76.25673	500	OPEN HOLE	1	0	DOMESTIC
418914	10/25/2006	HAROLDKLEINSMITH	41.14197	-76.21738	450	OPEN HOLE	12	0	DOMESTIC
418923	12/6/2006	FINE LINE HOMES	41.01297	-76.49798	150	OPEN HOLE	60	0	DOMESTIC
418942	11/7/2006	LAURENKLINE	41.16450	-76.46858	450	OPEN HOLE	20	0	DOMESTIC
419052	12/12/2006	LENGUARNA	40.86262	-76.44200	350	OPEN HOLE	8	0	DOMESTIC
419135	10/10/2006	EUGENESTEC	41.37361	-75.96972	250	OPEN HOLE	7	90	DOMESTIC
419543	3/13/2007	JAMESBECKER	40.87673	-76.53343	275	CLOSED-LOOP GEOTHERMAL	5	0	GEOTHERMAL
419552	3/12/2007	JAMESBECKER	40.87582	-76.53140	275	CLOSED-LOOP GEOTHERMAL	10	0	GEOTHERMAL
419557	3/26/2007	GEORGEKLEPPINGER	40.83630	-76.07627	240	OPEN HOLE	20	0	DOMESTIC
419559	3/5/2007	JAMESBECKER	40.87582	-76.53132	400	OPEN HOLE	8	0	DOMESTIC
419560	12/14/2006	SUGARLOAF FIRE CO, INC.	41.00037	-76.08313	200	OPEN HOLE	50	0	DOMESTIC
419566	12/6/2006	PHILIPDOUGHERTY	41.15493	-76.62305	380	OPEN HOLE	5	0	DOMESTIC
419567	3/13/2007	JAMESBECKER	40.87675	-76.53350	275	CLOSED-LOOP GEOTHERMAL	1	0	GEOTHERMAL
419627	4/10/2006	LESLIESMITH	41.11056	-76.60667	380	OPEN HOLE	2	0	DOMESTIC
419851	3/29/2007	CONQUEST CONSTRUCTION	41.00472	-76.00556	240	OPEN END	14	45	DOMESTIC
420011	3/30/2007	CONQUEST CONSTRUCTION	41.00444	-76.00639	200	OPEN HOLE	18	52	DOMESTIC
420118	4/24/2007	CHRISTIAN HOLMAN	40.79528	-75.96417	440	OPEN HOLE	5	0	DOMESTIC
420126	4/23/2007	CHRISTIAN HOLMAN	40.79528	-75.96417	400	OPEN HOLE	4	0	DOMESTIC
420219	5/7/2007	EARLHORST	40.82944	-75.94306	275	OPEN HOLE	10	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
420228	5/4/2007	EARLHORST	40.82944	-75.94139	275	OPEN HOLE	10	0	DOMESTIC
420266	5/11/2007	MARKSWEIGART	41.30082	-76.37122	260	OPEN HOLE	6	0	DOMESTIC
420289	5/15/2007	MORLANDBOLLINGER	41.30037	-76.37347	100	OPEN HOLE	20	0	DOMESTIC
420349	5/25/2007	LEOHUMENICK JR.	40.93500	-75.87500	120	OPEN HOLE	65	32	DOMESTIC
420350	5/27/2007	JEFFROSSI	40.95111	-75.82111	400	OPEN HOLE	3	12	DOMESTIC
420359	5/11/2007	TIMJOSEPH	41.02667	-75.99194	340	OPEN HOLE	10	65	DOMESTIC
420360	5/26/2007	LEOHUMENICK SR.	40.93472	-75.87556	120	OPEN HOLE	45	30	DOMESTIC
420386	4/24/2007	JIMPESTER	40.85270	-76.03603	125	OPEN HOLE	45	0	DOMESTIC
420524	5/31/2007	THOMASSTIRLING	41.04333	-75.98861	400	OPEN HOLE	40	65	DOMESTIC
420573	5/1/2007	JOHNMORAN	41.23065	-76.08728	400	OPEN HOLE	7	60	DOMESTIC
420596	5/10/2007	LEOLETONA	41.38850	-75.91058	250	OPEN HOLE	100	30	DOMESTIC
420599	5/15/2007	VISION HOMES	41.25940	-76.18698	300	OPEN HOLE	8	40	DOMESTIC
420602	4/18/2007	MIKECORIGAN	41.18963	-75.73895	300	OPEN HOLE	70	4	DOMESTIC
420637	6/19/2007	MICHAELDELP	41.24923	-76.42412	400	OPEN HOLE	3	0	DOMESTIC
420658	5/21/2007	DONALDBULLA	40.91245	-76.39023	280	OPEN HOLE	48	0	DOMESTIC
420660	6/18/2007	DAVID EJOHNSON	41.14875	-76.32142	300	OPEN HOLE	7	0	DOMESTIC
420681	6/12/2007	KEVINTANRIBILIR	41.06910	-76.25692	300	OPEN HOLE	15	0	DOMESTIC
420798	6/7/2007	KEVINWILLIAMS	40.99782	-76.59510	260	OPEN HOLE	9	0	DOMESTIC
420801	6/27/2007	FREDEISENHUTH	41.01370	-76.39700	150	OPEN HOLE	45	0	DOMESTIC
420805	6/27/2007	CHARLIESTINE	41.02032	-76.36343	200	OPEN HOLE	20	0	DOMESTIC
420835	7/18/2007	JK MECHANICAL	41.04000	-75.99806	325	OPEN HOLE	100	0	GEOTHERMAL
420841	7/17/2007	WAYNEPERLA	40.79278	-75.97750	200	OPEN HOLE	60	0	DOMESTIC
420842	7/17/2007	JK MECHANICAL	41.04000	-75.99806	325	OPEN HOLE	100	0	GEOTHERMAL
420856	5/22/2007	ALLENLAROTONDA	41.13813	-76.43740	400	OPEN HOLE	4	0	DOMESTIC
420880	7/13/2007	ROBERTGRIFFITH	41.27258	-76.32742	260	OPEN HOLE	6	0	DOMESTIC
420889	5/29/2007	BP OIL COMPANY	41.25833	-75.90500	12		0	3	
420896	7/6/2007	RENESEVOUGHT	41.14675	-76.36095	44	OPEN HOLE	10	0	DOMESTIC
420925	7/13/2007	TOMMUSSELMAN	41.17197	-76.44550	300	OPEN HOLE	5	0	DOMESTIC
420981	7/30/2007	EARLPURSEL	41.12355	-76.54647	275	OPEN HOLE	30	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
421066	7/24/2007	MIKEFARRELL	41.08493	-76.58042	600	OPEN HOLE	2	0	DOMESTIC
421102	8/13/2007	SAMBOBST	40.92548	-76.49032	250	OPEN HOLE	60	0	DOMESTIC
421149	8/7/2007	GUOLDS SUPERMARKET	41.00639	-76.07167	265	OPEN HOLE	60	38	COMMERCIAL
421161	8/10/2007	STILLER	41.02167	-75.83417	280	OPEN HOLE	35	23	DOMESTIC
421162	8/30/2007	KARPOWICH	41.02389	-75.83417	320	OPEN HOLE	65	30	COMMERCIAL
421175	8/11/2007	NOWAK	41.02056	-75.82750	260	OPEN HOLE	28	42	DOMESTIC
421224	9/5/2007	ROBERTMENSINGER	41.04556	-76.02833	180	OPEN HOLE	50	30	DOMESTIC
421225	9/8/2007	DIANABROWNING	40.94139	-76.14361	120	OPEN END	25	30	DOMESTIC
421253	9/12/2007	BRIANMANGAN	41.01889	-76.21889	220	OPEN HOLE	45	25	DOMESTIC
421268	9/14/2007	BRIANYENCHICK	40.99139	-76.07306	180	OPEN HOLE	55	30	DOMESTIC
421543	9/17/2007	TERIWATSON	40.99777	-76.37652	220	OPEN HOLE	7	0	DOMESTIC
421544	10/5/2007	STEPHENHENTOSH	41.00222	-76.00583	220	OPEN END	60	60	DOMESTIC
421584	10/4/2007	GENERATION II	40.99139	-76.05694	160	OPEN END	25	35	DOMESTIC
421619	9/7/2007	LARRYNAPERKOWOSKI	41.26023	-76.00392	500		5	140	
421620	7/19/2007	DANBRUBAKER	41.27355	-76.11092	250		15	60	
421671	10/12/2007	JOHN MARKHORST	40.77417	-75.98611	300	OPEN HOLE	60	0	GEOTHERMAL
421674	9/18/2007	ALANWUFSUS	41.01018	-76.04037	225	OPEN HOLE	30	0	DOMESTIC
421684	10/12/2007	JOHN MARKHORST	40.77417	-75.98611	300	OPEN HOLE	60	0	GEOTHERMAL
421693	10/15/2007	JAMESBIRDSALL	40.79972	-75.98167	250	OPEN HOLE	5	0	DOMESTIC
421701	10/18/2007	FRANKTALUCCHI	41.43038	-76.25352	260	OPEN HOLE	7	0	DOMESTIC
421702	9/24/2007	SIDBUTLER	41.12045	-76.17738	250	OPEN HOLE	15	0	DOMESTIC
421715	9/26/2007	WILLIAMRESIDES	41.06322	-76.64005	500	OPEN HOLE	2	0	DOMESTIC
421806	10/31/2007	EDWARDGAPPA	40.87892	-76.55267	150	OPEN HOLE	12	0	DOMESTIC
421819	10/10/2007	DAVIDKEEFER	40.88072	-76.35368	120	OPEN HOLE	60	0	DOMESTIC
421855	11/1/2007	TIMKARR	40.88148	-76.40422	200	OPEN HOLE	15	0	DOMESTIC
421882	11/6/2007	BORO OF TAMAQUA	40.79351	-75.93367	200	OPEN HOLE	15	40	DOMESTIC
421886	10/26/2007	CARLAGIGER	40.97417	-76.36444	140	OPEN HOLE	75	20	DOMESTIC
421889	11/8/2007	JEFFMARANCIN	41.04750	-76.02278	200	OPEN HOLE	30	55	DOMESTIC
421899	9/17/2007	TONYTOBIAS	40.94120	-76.14027	175	OPEN HOLE	100	0	DOMESTIC

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
421911	10/17/2007	GEORGEMIZZER	41.39012	-75.90815	250		30	60	
421917	7/28/2007	BRIANHARRIS	41.36148	-75.93030	150		55	20	
421919	9/12/2007	ANDREWULITCHNEY	41.23695	-76.10858	600		1	180	
421921	10/8/2007	ERICLEVANDOWSKI	41.23157	-76.26432	600		4	100	
421987	10/10/2007	GEORGEMONTROSS	41.40512	-76.03707	300		60	80	
422013	6/29/2007	ELAINESNYDER	41.35898	-76.06260	300		20	30	
422510	1/23/2008	FREDDIMARIA	41.33688	-75.95947	220		30	80	DOMESTIC
422545	11/1/2007	ELEGANT HOMES	41.29980	-75.99290	150	OPEN HOLE	100	40	DOMESTIC
422546	1/29/2008	ELEGANT HOMES	41.30162	-75.99522	300	OPEN HOLE	20	60	DOMESTIC
422547	8/9/2007	MARKSTAUFFER	41.39018	-75.91090	250	OPEN HOLE	12	40	DOMESTIC
422548	5/8/2007	SUMMIT POINTE BUILDERS	41.37595	-76.03807	150	OPEN HOLE	45	20	DOMESTIC
422567	6/21/2007	JACKSCHOENWETTER	41.29565	-75.90172	500	OPEN HOLE	2	60	DOMESTIC
422577	4/30/2007	ELEGANT HOMES	41.29953	-75.99260	250		55	40	DOMESTIC
422578	9/14/2007	BOB MCMILLAN	41.23370	-76.15158	500	OPEN HOLE	3	80	DOMESTIC
422579	5/7/2007	ELEGANT HOMES	41.29942	-75.98997	300	OPEN HOLE	20	20	DOMESTIC
422580	9/6/2007	JOHNMAY	41.24492	-76.13417	200	OPEN HOLE	6	20	DOMESTIC
422581	10/29/2007	AMANDABIRK	41.19947	-76.17420	300	OPEN HOLE	2	0	DOMESTIC
422606	8/10/2007	ANDREWHITTLE	41.00980	-76.51577	50	OPEN HOLE	60	0	DOMESTIC
422806	6/1/2006	UNI-MART, INC	41.16047	-75.88707	23	SCREEN	0	3	OTHER
422807	5/31/2006	UNI-MART, INC	41.16073	-75.88683	23	SCREEN	0	4	OTHER
422809	8/16/2006	UNI MART, INC	41.06955	-75.70491	65	SCREEN	0	45	OTHER
422810	8/11/2006	UNI MART, INC	41.06982	-75.70454	65	SCREEN	0	49	OTHER
422817	8/16/2006	UNI MART, INC	41.06973	-75.70476	65	SCREEN	0	47	OTHER
422818	8/17/2006	UNI MART, INC	41.06962	-75.70477	65	SCREEN	0	46	OTHER
422819	8/15/2006	UNI MART, INC	41.06968	-75.70444	65	SCREEN	0	53	OTHER
422821	8/16/2006	UNI MART, INC	41.06975	-75.70460	65	SCREEN	0	47	OTHER
422822	8/18/2006	UNI MART, INC	41.06958	-75.70432	65	SCREEN	0	53	OTHER
422843	6/1/2006	UNI-MART, INC	41.16053	-75.88689	23	SCREEN	0	3	OTHER
422844	6/2/2006	UNI-MART, INC	41.16047	-75.88680	23	SCREEN	0	4	OTHER

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
422848	8/17/2006	UNI MART, INC	41.06960	-75.70463	65	SCREEN	0	37	OTHER
422849	8/18/2006	UNI MART, INC	41.06936	-75.70481	65	SCREEN	0	52	OTHER
422867	6/2/2006	UNI-MART, INC	41.16041	-75.88672	23	SCREEN	0	4	OTHER
422871	6/1/2006	UNI-MART, INC	41.16054	-75.88696	23	SCREEN	0	3	OTHER
422872	6/2/2006	UNI-MART, INC	41.16048	-75.88665	23	SCREEN	0	4	OTHER
422875	5/31/2006	UNI-MART, INC	41.16064	-75.88690	23	SCREEN	0	4	OTHER
422877	5/31/2006	UNI-MART, INC	41.16067	-75.88669	23	SCREEN	0	5	OTHER
422898	6/2/2006	UNI-MART, INC	41.16041	-75.88696	23	SCREEN	0	4	OTHER
422899	6/1/2006	UNI-MART, INC	41.16057	-75.88681	23	SCREEN	0	4	OTHER
423077	2/26/2008	TRACEYCHRISTMAN	40.83477	-76.48542	180	OPEN HOLE	30	0	DOMESTIC
423080	3/18/2008	JAMESPOLLARD	41.00065	-76.03857	220	OPEN HOLE	100	0	DOMESTIC
423109	3/22/2008	H&S HOMES	41.15670	-75.75330	420	OPEN END	4	60	DOMESTIC
423137	4/7/2006	SUNOCO	41.31694	-76.02083	50	SCREEN	0	0	UNUSED
423164	10/22/2007	GLENN STRAUSSER	41.07277	-76.24680	150	OPEN HOLE	30	0	DOMESTIC
423178	1/15/2008	JONATHANECKHART	40.98293	-76.57370	500	OPEN HOLE	15	0	DOMESTIC
423187	8/28/2007	BRUCE BEAVER	41.04397	-76.41142	350	OPEN HOLE	15	0	DOMESTIC
423188	8/23/2007	ASPINWALL	41.13097	-76.24500	300	OPEN HOLE	4	0	DOMESTIC
423189	8/15/2007	BOBPRICE	41.13320	-76.24310	300	OPEN HOLE	30	0	DOMESTIC
423254	10/23/2007	DEBBIEDISABELLA	40.88278	-76.40292	300	OPEN HOLE	15	0	DOMESTIC
423325	11/28/2007	VINCENT P.DILORETTO	40.88780	-76.34368	450	OPEN HOLE	15	0	DOMESTIC
423369	12/20/2007	BILLWOLFE	40.88088	-76.50643	200	OPEN HOLE	10	0	DOMESTIC
423370	3/14/2008	IRENEBEZDZIECKI	41.15202	-76.26798	500	OPEN HOLE	1	0	DOMESTIC
423458	4/25/2008	DOOLEY	41.27258	-76.13820	400	OPEN HOLE	3	90	DOMESTIC
423515	12/12/2007	DALEBRINKER	41.07361	-75.68861	160	OPEN HOLE	30	60	DOMESTIC
423579	4/14/2008	DOUGSEIDEL	41.02395	-76.39993	250	OPEN HOLE	20	0	DOMESTIC
423800	5/5/2008	EARLHORST	40.79722	-75.96861	340	CLOSED-LOOP GEOTHERMAL	12	0	GEOTHERMAL
423801	5/3/2008	EARLHORST	40.86306	-75.81250	440	OPEN HOLE	50	0	GEOTHERMAL
423915	3/26/2007	AQUA AMERICA	41.33833	-76.01488	804	SCREEN	40	65	PUBLIC SUPPLY

Table 2.3-37— Groundwater Wells Located within a 25 Mile (40-km) Radius of BBNPP (Listed in Pennsylvania Groundwater Information System)

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PA Well ID	Date Drilled	Owner	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Static Water Level (ft bgs)	Water Use
424100	6/9/2008	AQUA PENNSYLVANIA	41.18703	-75.78265	412	OPEN HOLE	400	400	PUBLIC SUPPLY
424308	7/3/2008	ROHRERS CONSTRUCTION	40.81750	-76.12750	250	OPEN HOLE	30	0	DOMESTIC
424397	6/30/2008	STEVEMASALA	40.87858	-76.40055	200	OPEN HOLE	20	0	DOMESTIC
424425	6/3/2008	CLEAR BROOK INC.	41.21952	-75.84845	600	OPEN HOLE	15	145	DOMESTIC
424584	6/17/2008	ALLEY-O'REILLY	41.07347	-76.25232	400	OPEN HOLE	3	0	DOMESTIC
424657	7/23/2008	CHARLESHUBIAK	40.80729	-76.05791	300	CLOSED-LOOP GEOTHERMAL	0	0	GEOTHERMAL
424704	7/22/2008	LUXOR GROUP	40.80990	-76.04788	340	OPEN HOLE	40	0	DOMESTIC
424828	8/13/2008	TYLERFREDERICK	41.00000	-76.03000	240	OPEN END	90	12	DOMESTIC
424963	7/31/2008	JEFFREYMARSHMAN	41.15898	-76.34988	350	OPEN HOLE	4	0	DOMESTIC
425091	8/22/2008	DENNISBAXTER	41.04508	-76.03050	455	OPEN HOLE	30	0	DOMESTIC
425107	8/18/2008	JOHNBROKENSHIRE	40.89460	-76.41762	150	OPEN HOLE	20	0	DOMESTIC
425108	8/25/2008	LUCHI BUILDERS	41.05133	-76.02723	400	OPEN HOLE	3	0	DOMESTIC
425219	9/15/2008	TARGET	41.07528	-76.47111	300	OPEN END	12	85	DOMESTIC
425274	9/8/2008	WILLIAMASBURY	40.88200	-76.39312	240	OPEN HOLE	30	0	DOMESTIC
425328	9/11/2008	EVANS	40.80258	-76.08830	220	OPEN HOLE	30	0	
Source: DCNR, 2010									

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
92309	BERWICK WATER C		COLUMBIA	41.05444	-76.23167	160	OPEN HOLE	500		0	PUBLIC SUPPLY
92310	BERWICK WATER C		COLUMBIA	41.05417	-76.23222	90	OPEN HOLE	500		0	PUBLIC SUPPLY
92311	BERWICK WATER C		COLUMBIA	41.05389	-76.23278	87	OPEN HOLE	500		0	PUBLIC SUPPLY
92306	CONSOL CIGAR CO		COLUMBIA	41.07833	-76.24111	284		0		0	INDUSTRIAL
92307	CONSOL CIGAR CO		COLUMBIA	41.06139	-76.24222	151		0		0	INDUSTRIAL
14175	CONSOLIDATED CIGAR CORP	3/12/1957	COLUMBIA	41.06139	-76.24083	284	OPEN HOLE	200	REPORTED, METHOD NOT KNOWN	0	AIR CONDITIONING
14176	CONSOLIDATED CIGAR CORP	4/11/1957	COLUMBIA	41.06139	-76.24194	151	OPEN HOLE	0		0	UNUSED
260836	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	54	SCREEN	0		0	OTHER
260837	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	48	SCREEN	0		0	OTHER
260838	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	54	SCREEN	0		0	OTHER
260839	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	42	SCREEN	0		0	OTHER
261342	Dana	11/18/1998	COLUMBIA	41.05583	-76.20750	42	SCREEN	0		0	OTHER
14000	DIBATTISTA JOHN	4/28/1975	COLUMBIA	41.06028	-76.25000	100	OPEN HOLE	10	TOTALING METER	36	DOMESTIC
14165	KEYSTONE WATER CO.	1/1/1957	COLUMBIA	41.05444	-76.23250	87	OPEN HOLE	1300		32	PUBLIC SUPPLY
14166	KEYSTONE WATER CO.	6/24/1957	COLUMBIA	41.05444	-76.23278	90	UNKNOWN	1200		31	PUBLIC SUPPLY
14167	KEYSTONE WATER CO.	3/29/1957	COLUMBIA	41.05500	-76.23278	160	OPEN HOLE	1300		32	PUBLIC SUPPLY
13991	PENNDOT	1/1/1977	COLUMBIA	41.05361	-76.23278	0	UNKNOWN	0		0	UNUSED
13992	PENNDOT	1/1/1977	COLUMBIA	41.05389	-76.23306	0	UNKNOWN	0		0	UNUSED
13993	PENNDOT	1/1/1977	COLUMBIA	41.05417	-76.23333	0	UNKNOWN	0		0	UNUSED

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
13994	PENNDOT	1/1/1977	COLUMBIA	41.05417	-76.23333	0	UNKNOWN	0		0	UNUSED
92426		1/1/1969	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	8		0	DOMESTIC
92407	ALBERTSON R	1/1/1966	COLUMBIA	41.09083	-76.25778	115	OPEN HOLE	15		30	DOMESTIC
92367	ALBERTSON T	11/17/1982	COLUMBIA	41.08556	-76.25139	122	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
424584	ALLEY-O'REILLY	6/17/2008	COLUMBIA	41.07347	-76.25232	400	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
14283	BECK, JACK	8/3/1973	COLUMBIA	41.10222	-76.23611	175	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
14287	CARRATHERS MARTIN	9/21/1972	COLUMBIA	41.10306	-76.23000	100	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
14288	CARRATHERS WILLIAM	9/18/1972	COLUMBIA	41.10389	-76.23056	105	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	65	DOMESTIC
92422	COLLINS E	1/1/1970	COLUMBIA	41.09250	-76.25500	185	OPEN HOLE	10		0	DOMESTIC
14272	COLLINS, EUGENE A	2/19/1970	COLUMBIA	41.09722	-76.25333	185	OPEN HOLE	0		114	DOMESTIC
417939	DICKDELAVENTIST	9/15/2006	COLUMBIA	41.13162	-76.24232	200	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
92423	DENT JACK	1/1/1973	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	12		0	DOMESTIC
14281	DENT, JACK W	8/2/1973	COLUMBIA	41.10056	-76.24111	150	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14265	DENT, RICHARD	3/26/1974	COLUMBIA	41.09583	-76.25917	150	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14280	FULTZ, CURTIS	7/18/1972	COLUMBIA	41.10000	-76.23917	175	OPEN HOLE	16	VOLUMETRIC, WATCH & BUCKET	80	DOMESTIC
92425	GRASLEY HAROLD	1/1/1972	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	8		0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
14017	HECKMAN, DREW	8/16/1968	COLUMBIA	41.07667	-76.24333	75	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14292	HESS, KENNETH L	9/12/1973	COLUMBIA	41.10639	-76.25556	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14254	HOFFMAN, DRUE C	10/9/1966	COLUMBIA	41.09250	-76.25500	130	OPEN HOLE	7	BAILER	65	DOMESTIC
92366	HOLLINGAER H	10/14/1982	COLUMBIA	41.09167	-76.25500	160	OPEN HOLE	30	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
92451	HUNSINGER DON		COLUMBIA	41.07889	-76.23667	100	OPEN HOLE	15	UNKNOWN	0	DOMESTIC
92360	KARC M	5/12/1983	COLUMBIA	41.10972	-76.22972	200	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
92389	KEPNER F	6/8/1981	COLUMBIA	41.07167	-76.24500	185	OPEN HOLE	40	ESTIMATED	0	DOMESTIC
14267	KERIS, ALEX	7/24/1975	COLUMBIA	41.09611	-76.25833	150	OPEN HOLE	7	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14019	KISHBAUGH	10/1Water Level Fluctuations In MW302 Cluster Area Based on Pressure Transducer Data4/1975	COLUMBIA	41.07750	-76.24750	100	OPEN HOLE	0		44	DOMESTIC
14018	KISHBAUGH, RANDALL C	11/1/1978	COLUMBIA	41.07694	-76.24722	150	OPEN HOLE	0		31	DOMESTIC
92444	KISLY WALTER	1/1/1974	COLUMBIA	41.08833	-76.25694	175	OPEN HOLE	10	UNKNOWN	0	DOMESTIC
92427	KISLY WALTER	1/1/1974	COLUMBIA	41.09250	-76.25500	150	OPEN HOLE	6		0	DOMESTIC
92359	KLINESMITH D	11/23/1983	COLUMBIA	41.09583	-76.25750	177	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
92385	KLINGER L	8/19/1983	COLUMBIA	41.06250	-76.25389	160	OPEN HOLE	9	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
92379	KOWALCHICK S	9/25/1980	COLUMBIA	41.07000	-76.25472	150	OPEN HOLE	0	ESTIMATED	0	DOMESTIC
14261	KREISCHER, GARY	2/12/1977	COLUMBIA	41.09389	-76.25056	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14258	KREISCHER, WILLIAM	2/12/1977	COLUMBIA	41.09361	-76.25139	100	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14011	MAGRONE, JOHN	1/1/1981	COLUMBIA	41.06806	-76.25667	30	WALLED	0		23	UNUSED
14012	MAGRONE, JOHN	9/25/1979	COLUMBIA	41.06806	-76.25667	67	OPEN HOLE	0		28	DOMESTIC
92353	MILLER P	11/6/1984	COLUMBIA	41.10250	-76.22972	275	OPEN HOLE	6	BAILER	0	DOMESTIC
14264	PERSANS, EDMUND C	7/19/1974	COLUMBIA	41.09583	-76.25833	175	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
92355	RABER T	6/28/1985	COLUMBIA	41.10083	-76.23111	225	OPEN HOLE	6	ESTIMATED	0	DOMESTIC
14235	RICHARDS, REBA		COLUMBIA	41.08667	-76.22889	0		0		0	DOMESTIC
92365	ROBBINS W	9/29/1982	COLUMBIA	41.09194	-76.25944	200	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
14248	ROTHERY	5/29/1974	COLUMBIA	41.09111	-76.25806	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
14270	SHULTZ, EDWARD A	5/6/1976	COLUMBIA	41.09639	-76.25722	175	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
92424	SITLER ALLEN	1/1/1974	COLUMBIA	41.09250	-76.25500	175	OPEN HOLE	12		0	DOMESTIC
92421	SMITH JACK	1/1/1969	COLUMBIA	41.09250	-76.25500	135	OPEN HOLE	8		0	DOMESTIC
423164	GLENN STRAUSSER	10/22/2007	COLUMBIA	41.07277	-76.24680	150	OPEN HOLE	30	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
420681	KEVINTANRIBILIR	6/12/2007	COLUMBIA	41.06910	-76.25692	300	OPEN HOLE	15	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
92361	VANDERMARK R	5/12/1983	COLUMBIA	41.08111	-76.23722	175	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
92453	VENCLOSKI DAVID		COLUMBIA	41.11806	-76.23694	200	OPEN HOLE	9		0	DOMESTIC
92452	VENCLOSKI JOSPH		COLUMBIA	41.11944	-76.23750	100	OPEN HOLE	10		0	DOMESTIC
92409	WALTMAN H J	1/1/1966	COLUMBIA	41.08528	-76.25750	130	OPEN HOLE	7	UNKNOWN	65	DOMESTIC
92380	WHITMIRE C	11/1/1980	COLUMBIA	41.09778	-76.26056	150	OPEN HOLE	10	ESTIMATED	0	DOMESTIC
92406	WHITMYER VERNON	1/1/1967	COLUMBIA	41.09444	-76.25500	150	OPEN HOLE	6		0	DOMESTIC
92398	WOLFINGER	1/1/1967	COLUMBIA	41.09972	-76.24444	120	OPEN HOLE	6	UNKNOWN	30	DOMESTIC
92382	YALCH A	7/25/1980	COLUMBIA	41.10111	-76.25417	150	OPEN HOLE	7	ESTIMATED	0	DOMESTIC
14148	ANDREZZI, LEW	3/17/1969	COLUMBIA	41.04472	-76.23139	125	OPEN HOLE	10		0	DOMESTIC
13982	PENNDOT	1/1/1977	COLUMBIA	41.05167	-76.23111	0		0		0	UNUSED
13983	PENNDOT	1/1/1977	COLUMBIA	41.05167	-76.23111	0		0		0	UNUSED
13984	PENNDOT	1/1/1977	COLUMBIA	41.05194	-76.23139	0	UNKNOWN	0		0	UNUSED
13985	PENNDOT	1/1/1977	COLUMBIA	41.05222	-76.23167	0	UNKNOWN	0		0	UNUSED
13986	PENNDOT	1/1/1977	COLUMBIA	41.05222	-76.23167	0	UNKNOWN	0		0	UNUSED
13988	PENNDOT	1/1/1977	COLUMBIA	41.05250	-76.23194	0	UNKNOWN	0		0	UNUSED
13989	PENNDOT	1/1/1977	COLUMBIA	41.05278	-76.23222	0	UNKNOWN	0		0	UNUSED
13990	PENNDOT	1/1/1977	COLUMBIA	41.05333	-76.23278	0	UNKNOWN	0		0	UNUSED

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
182729	BEACH HAVEN FIR	1/1/1973	LANCASTER	41.06806	-76.16167	100	OPEN HOLE	12	UNKNOWN	40	
182732	BRADER HERB	1/1/1972	LANCASTER	41.08944	-76.18056	100	OPEN HOLE	12	UNKNOWN	0	DOMESTIC
182730	MOLYNEAUX SHLDN	1/1/1974	LANCASTER	41.06917	-76.16639	50	OPEN HOLE	15	UNKNOWN	0	DOMESTIC
182731	VARNER ARTHUR	1/1/1974	LANCASTER	41.08583	-76.19250	125	OPEN HOLE	7	UNKNOWN	0	DOMESTIC
128352	BECK P	9/1/1983	LUZERNE	41.12833	-76.12639	175	OPEN HOLE	15	VOLUMETRIC, WATCH & BUCKET	20	DOMESTIC
25778	BLUE COAL CO	1/1/1966	LUZERNE	41.14500	-76.14083	170	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	57	UNUSED
25779	BLUE COAL CO	1/1/1967	LUZERNE	41.14639	-76.12611	305	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	155	UNUSED
25780	BLUE COAL CO	1/1/1967	LUZERNE	41.14639	-76.12611	315	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	152	UNUSED
25781	BLUE COAL CO	1/1/1966	LUZERNE	41.14778	-76.11472	80	OPEN HOLE	10		1	UNUSED
25782	BLUE COAL CO	1/1/1967	LUZERNE	41.14944	-76.11750	115	OPEN HOLE	12	PITOT-TUBE METER	60	UNUSED
25783	BLUE COAL CO	1/1/1967	LUZERNE	41.15028	-76.14444	55	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	22	UNUSED
25786	BLUE COAL CO	1/1/1967	LUZERNE	41.15194	-76.13278	485	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	185	UNUSED
250942	COUNCIL CUP CAMPGROUND		LUZERNE	41.09970	-76.10500	480		10	REPORTED, METHOD NOT KNOWN	0	PUBLIC SUPPLY
128349	DUSKOSKY	12/1/1987	LUZERNE	41.11750	-76.11194	250	OPEN HOLE	6	ESTIMATED	0	DOMESTIC
250959	ENERGY INFORMATION CENTER		LUZERNE	41.10190	-76.12080	100	OPEN END	15	REPORTED, METHOD NOT KNOWN	0	COMMERCIAL
25480	FRANK BUTZ	3/30/1979	LUZERNE	41.12250	-76.12000	200	OPEN HOLE	30	REPORTED, METHOD NOT KNOWN	30	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
128345	HERRING DOROTHY	7/24/1978	LUZERNE	41.13083	-76.10417	250		0	ESTIMATED	20	DOMESTIC
250921	HESS'S COUNTRY CONE		LUZERNE	41.09500	-76.11440	100		0		0	COMMERCIAL
25453	HESS,RALPH	1/1/1950	LUZERNE	41.10083	-76.09806	397	UNKNOWN	0		0	UNUSED
128344	LEWIS R	8/1/1977	LUZERNE	41.12889	-76.09083	345	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	50	DOMESTIC
128357	MACANAQUA WATER	1/1/1967	LUZERNE	41.14194	-76.13167	307	OPEN HOLE	75	UNKNOWN	15	PUBLIC SUPPLY
128347	PIZIA	4/1/1989	LUZERNE	41.10889	-76.07444	250	OPEN HOLE	10	ESTIMATED	25	DOMESTIC
128348	PIZIA	3/1/1989	LUZERNE	41.11000	-76.07444	240	OPEN HOLE	35	ESTIMATED	20	DOMESTIC
128358	READLER HOYT	1/1/1966	LUZERNE	41.14111	-76.13833	217	OPEN HOLE	3	UNKNOWN	24	DOMESTIC
128346	SPAIDE H	10/1/1982	LUZERNE	41.09333	-76.10389	160	OPEN HOLE	25	VOLUMETRIC, WATCH & BUCKET	10	DOMESTIC
128350	UTILITY ENGINEERS	11/1/1985	LUZERNE	41.14222	-76.13111	603	OPEN HOLE	25	VOLUMETRIC, WATCH & BUCKET	27	PUBLIC SUPPLY
128823	ARNER GENNY	9/1/1987	LUZERNE	41.07361	-76.10111	300	OPEN HOLE	4	ESTIMATED	0	DOMESTIC
128820	BADMAN RON	7/17/1974	LUZERNE	41.06611	-76.10222	510		2	ESTIMATED	0	DOMESTIC
128838	BECK	7/1/1984	LUZERNE	41.08944	-76.09250	345	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	30	DOMESTIC
25378	BREISCH CONKLIN	11/22/1976	LUZERNE	41.06750	-76.10361	150	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
128827	BUCK	12/1/1987	LUZERNE	41.08111	-76.08167	375	OPEN HOLE	2	ESTIMATED	0	DOMESTIC
128833	CHAPIN C	11/1/1985	LUZERNE	41.05139	-76.10639	248	OPEN HOLE	30	ESTIMATED	0	DOMESTIC
250854	CITIZENS WATER CO.		LUZERNE	41.07970	-76.11860	375		50	REPORTED, METHOD NOT KNOWN	40	PUBLIC SUPPLY

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25407	D. SULT	8/1/1980	LUZERNE	41.08278	-76.10889	200	OPEN HOLE	0		150	DOMESTIC
128831	DAILEY K	7/1/1986	LUZERNE	41.04722	-76.09639	320	OPEN HOLE	15	ESTIMATED	0	DOMESTIC
128839	DENNIS R		LUZERNE	41.08083	-76.10528	300	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	30	DOMESTIC
128830	FRASSO J	7/1/1986	LUZERNE	41.09972	-76.08306	180	OPEN HOLE	20	ESTIMATED	25	DOMESTIC
25410	GROBER,A.		LUZERNE	41.08389	-76.10944	142	OPEN HOLE	7		65	DOMESTIC
128821	LASKOSKY FRANCIS	2/16/1976	LUZERNE	41.05083	-76.08778	140		20	ESTIMATED	30	DOMESTIC
128834	LEWIS I	11/1/1984	LUZERNE	41.08556	-76.08833	225	OPEN HOLE	20		20	DOMESTIC
25401	M. PETERS	1/1/1981	LUZERNE	41.07889	-76.09111	250	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
128817	READLER C	3/5/1974	LUZERNE	41.04722	-76.11389	200		20	ESTIMATED	18	DOMESTIC
25368	READLER,CALVIN P.		LUZERNE	41.05778	-76.09639	30	OPEN HOLE	0		27	DOMESTIC
128815	RINEHIMER R	12/1/1981	LUZERNE	41.08167	-76.09167	250	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	60	DOMESTIC
128840	ROBBINS	3/1/1989	LUZERNE	41.04639	-76.09500	500	OPEN HOLE	20	ESTIMATED	40	DOMESTIC
128837	SENSON R	9/1/1983	LUZERNE	41.04722	-76.09333	225	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	30	DOMESTIC
128819	SHOBERT RALPH	3/10/1974	LUZERNE	41.06556	-76.10222	480		4	ESTIMATED	0	DOMESTIC
128836	SIEGAL R	8/1/1983	LUZERNE	41.07444	-76.07611	200	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	25	DOMESTIC
128832	STEINBRENNER	2/1/1986	LUZERNE	41.08250	-76.08444	240	OPEN HOLE	15	ESTIMATED	60	DOMESTIC
25376	W. ZIMSKI	9/1/1979	LUZERNE	41.06694	-76.11444	245	UNKNOWN	15		45	DOMESTIC
25399	WEISS,MR.		LUZERNE	41.07722	-76.07944	75	UNKNOWN	12		25	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
128816	WHITEBREAD D	11/1/1983	LUZERNE	41.07861	-76.08944	200	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	20	DOMESTIC
128818	WYDA BOB	1/10/1976	LUZERNE	41.06583	-76.08667	170		20	ESTIMATED	40	DOMESTIC
128835	WYDA L	4/1/1985	LUZERNE	41.08750	-76.09694	225	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	30	DOMESTIC
25511	D BARRETTS	12/11/1980	LUZERNE	41.15639	-76.19694	235	OPEN HOLE	8		62	DOMESTIC
128864	FEATHERMAN E	6/1/1985	LUZERNE	41.15222	-76.21139	150	OPEN HOLE	4	ESTIMATED	0	DOMESTIC
128969	DOUTHAT J	3/2/1983	LUZERNE	41.05194	-76.20500	200	OPEN HOLE	0	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25366	RYMAN, WALTER	1/1/1980	LUZERNE	41.05611	-76.21056	340	OPEN HOLE	35	REPORTED, METHOD NOT KNOWN	82	STOCK
25732	SELIC, ROBERT	8/21/1975	LUZERNE	41.05000	-76.20750	150	OPEN HOLE	10		0	DOMESTIC
25328		7/18/1974	LUZERNE	41.03389	-76.17222	140	OPEN HOLE	15	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
128988	ADAMS A	5/1/1988	LUZERNE	41.04417	-76.18389	360	OPEN HOLE	15	BAILER	85	DOMESTIC
25327	ADAMS, MARK	3/27/1974	LUZERNE	41.03361	-76.18028	230	OPEN HOLE	18	VOLUMETRIC, WATCH & BUCKET	30	DOMESTIC
25333	ATEN, TOM	7/17/1974	LUZERNE	41.03611	-76.17472	125	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
128995	AUDIMATION	4/1/1988	LUZERNE	41.05278	-76.16556	240	OPEN HOLE	20		60	INDUSTRIAL
129027	BENJAMIN ORVILL		LUZERNE	41.04278	-76.19833	125	OPEN HOLE	0	UNKNOWN	0	DOMESTIC
25344	BENJAMIN, ORVILLE	7/2/1974	LUZERNE	41.04361	-76.19861	125	OPEN HOLE	0		20	DOMESTIC
128975	BLACKBURN ED	8/1/1978	LUZERNE	41.03667	-76.17611	300	OPEN HOLE	20	VOLUMETRIC, WATCH & BUCKET	40	DOMESTIC
128987	BOENICH J	5/1/1988	LUZERNE	41.04306	-76.14028	200	OPEN HOLE	15	ESTIMATED	40	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
128996	BOWER K	11/7/1986	LUZERNE	41.05361	-76.17056	420	OPEN HOLE	1	ESTIMATED	0	DOMESTIC
128993	BREMMER M	6/1/1987	LUZERNE	41.04167	-76.13333	398	OPEN HOLE	1	ESTIMATED	0	DOMESTIC
25314	CALLAHAN	4/9/1974	LUZERNE	41.02611	-76.18361	300	OPEN HOLE	0		160	DOMESTIC
129028	CHAPIN CURTIS		LUZERNE	41.04583	-76.12056	140	OPEN HOLE	30	UNKNOWN	0	DOMESTIC
129018	DEISCHAINE RLND		LUZERNE	41.03944	-76.13778	275	OPEN HOLE	20	UNKNOWN	0	DOMESTIC
25339	DEISCHAINE ROLAND	5/1/1974	LUZERNE	41.03917	-76.13750	275	OPEN HOLE	20	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
128978	DEISEHAINE B	4/1/1978	LUZERNE	41.03917	-76.13722	100	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
128979	DEISEHAINE B	4/1/1978	LUZERNE	41.03778	-76.13750	150	OPEN HOLE	6	ESTIMATED	0	DOMESTIC
128972	DRIBELLIS W	5/3/1982	LUZERNE	41.04167	-76.19889	225	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
128970	EROH G	11/1/1982	LUZERNE	41.05278	-76.16389	300	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25758	FELIX, RUDY		LUZERNE	41.06222	-76.15639	471	UNKNOWN	0		23	DOMESTIC
129020	FILMORE MARTIN		LUZERNE	41.03361	-76.17306	175	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
250952	GOOD TIME GOLF		LUZERNE	41.04780	-76.15030	340	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	220	COMMERCIAL
251149	H&W OIL CO DBA MOTOR-VU DRIVE		LUZERNE	41.04417	-76.13944	0		0		0	COMMERCIAL
129024	HAWK GEORGE		LUZERNE	41.03333	-76.18000	230	OPEN HOLE	18	UNKNOWN	30	DOMESTIC
128973	HOPPY B	7/2/1981	LUZERNE	41.03417	-76.16722	225	OPEN HOLE	8	ESTIMATED	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
129022	HOUCH HAROLD		LUZERNE	41.03333	-76.17222	140	OPEN HOLE	15	UNKNOWN	0	DOMESTIC
129005	HOUGH H	8/30/1984	LUZERNE	41.02472	-76.20667	150	OPEN HOLE	15	ESTIMATED	0	DOMESTIC
129019	JUMPER HARRY		LUZERNE	41.03472	-76.17444	125	OPEN HOLE	8	UNKNOWN	0	DOMESTIC
129007	KESSLER J	7/1/1983	LUZERNE	41.04333	-76.20528	225		9		0	
129017	KLINE LARRY		LUZERNE	41.04944	-76.16528	140	OPEN HOLE	0		0	DOMESTIC
25354	KLINE, LARRY	2/19/1974	LUZERNE	41.04944	-76.16556	140	OPEN HOLE	0		0	DOMESTIC
128982	LLOYD BILL	4/1/1989	LUZERNE	41.04444	-76.14639	275	OPEN HOLE	7	ESTIMATED	35	DOMESTIC
128985	LUNDY CONSTRUCTION	11/23/1988	LUZERNE	41.04944	-76.15778	200	OPEN HOLE	20	ESTIMATED	0	DOMESTIC
128983	LYNN J	4/1/1989	LUZERNE	41.04444	-76.18667	200	OPEN HOLE	25	ESTIMATED	30	DOMESTIC
128990	MADISH M	9/25/1987	LUZERNE	41.03250	-76.21861	340	OPEN HOLE	3	ESTIMATED	0	DOMESTIC
128981	MARGARM HOWARD	4/1/1989	LUZERNE	41.04333	-76.18389	360	OPEN HOLE	15	ESTIMATED	70	DOMESTIC
128971	MATASH A	7/28/1982	LUZERNE	41.04333	-76.20306	450	OPEN HOLE	4	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
128998	MCCREARY J	6/1/1985	LUZERNE	41.04111	-76.14889	275	OPEN HOLE	5	ESTIMATED	0	DOMESTIC
128991	MILLER G	8/13/1987	LUZERNE	41.04083	-76.19028	300	OPEN HOLE	1	ESTIMATED	0	DOMESTIC
129008	PADEN J	9/15/1983	LUZERNE	41.04472	-76.20611	400	OPEN HOLE	2	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129003	PADEN J	7/5/1984	LUZERNE	41.04389	-76.20444	300	OPEN HOLE	5	BAILER	0	DOMESTIC
128984	PALERY D	4/1/1989	LUZERNE	41.04417	-76.18667	220	OPEN HOLE	12	ESTIMATED	50	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
129004	READLER K	2/1/1986	LUZERNE	41.03917	-76.18917	223	OPEN HOLE	12	ESTIMATED	0	DOMESTIC
25731	READLER, HOYT	1/24/1967	LUZERNE	41.04778	-76.15056	0	OPEN HOLE	15	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
128999	REIMARD E	10/1/1986	LUZERNE	41.04361	-76.18278	380	OPEN HOLE	20	ESTIMATED	70	DOMESTIC
418813	MICHAELROINICK	11/13/2006	LUZERNE	41.03265	-76.14770	300	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
128994	RYMAN FARM	4/1/1988	LUZERNE	41.05417	-76.17472	200	OPEN HOLE	20		60	DOMESTIC
128992	RYMAN H	9/1/1987	LUZERNE	41.05500	-76.18833	280	OPEN HOLE	8	ESTIMATED	0	DOMESTIC
128997	RYMAN V	10/15/1986	LUZERNE	41.03694	-76.21250	360		3	ESTIMATED	0	DOMESTIC
128974	RYMAN W	8/1/1980	LUZERNE	41.05278	-76.16389	360	OPEN HOLE	35	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129015	RYMAN WARREN	1/1/1966	LUZERNE	41.04083	-76.14306	235	OPEN HOLE	10	UNKNOWN	91	DOMESTIC
129023	SEWARD HAROLD		LUZERNE	41.03194	-76.17194	245	OPEN HOLE	22	UNKNOWN	50	DOMESTIC
25320	SEWARO, HAROLD	2/17/1976	LUZERNE	41.03139	-76.17167	245	OPEN HOLE	22	VOLUMETRIC, WATCH & BUCKET	50	DOMESTIC
25348	SLOSSER,MR.		LUZERNE	41.04639	-76.15056	138	UNKNOWN	0		0	DOMESTIC
129000	SMITH	8/1/1986	LUZERNE	41.04278	-76.14361	180	OPEN HOLE	12	ESTIMATED	40	DOMESTIC
128989	SMITH R	5/1/1988	LUZERNE	41.03500	-76.14028	180	OPEN HOLE	25	ESTIMATED	40	DOMESTIC
129021	STEINHAUER REV		LUZERNE	41.03306	-76.17389	170	OPEN HOLE	25	UNKNOWN	35	DOMESTIC
25326	STEINHAVER DONALD L	4/2/1974	LUZERNE	41.03361	-76.17333	170	OPEN HOLE	25	VOLUMETRIC, WATCH & BUCKET	35	DOMESTIC
129006	SUPERKO D	7/1/1983	LUZERNE	41.03889	-76.15194	330	OPEN HOLE	15		40	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
128986	TYRRELL C	3/11/1988	LUZERNE	41.04444	-76.18806	275	OPEN HOLE	40	ESTIMATED	0	DOMESTIC
128976	U S GEOL SURVEY	10/20/1980	LUZERNE	41.05889	-76.19806	200	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	23	
128977	U S GEOL SURVEY	10/20/1980	LUZERNE	41.05889	-76.19778	55	PERFORATED OR SLOTTED	36	TOTALING METER	23	
25756	U.S. GEOL. SURVEY	10/20/1980	LUZERNE	41.05889	-76.19806	200	OPEN HOLE	0		23	UNUSED
25757	U.S. GEOL. SURVEY	10/21/1980	LUZERNE	41.05889	-76.19806	55	UNKNOWN	0		20	UNUSED
129025	VALENTINO DAN		LUZERNE	41.02861	-76.18278	300	OPEN HOLE	2	UNKNOWN	160	DOMESTIC
129001	WENNER R	7/1/1986	LUZERNE	41.04333	-76.17889	280	OPEN HOLE	60	ESTIMATED	70	DOMESTIC
25330	WHITMIRE	10/11/1974	LUZERNE	41.03444	-76.17389	175	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25386	WOLFE, MALVERN	4/15/1970	LUZERNE	41.07000	-76.13611	175	OPEN HOLE	5		0	DOMESTIC
129002	WOOD LAND PRODUCT	1/14/1985	LUZERNE	41.05528	-76.12861	508	OPEN HOLE	2	ESTIMATED	0	STOCK
25306	YODER,G.		LUZERNE	41.02306	-76.19833	96	OPEN HOLE	6		55	DOMESTIC
129098	BULFORD	12/1/1988	LUZERNE	41.14444	-76.19694	330	OPEN HOLE	4	ESTIMATED	25	DOMESTIC
25486	B. GENSEL	6/1/1977	LUZERNE	41.13083	-76.22778	175	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
129225	BAER RUSSEL		LUZERNE	41.10472	-76.15611	125	OPEN HOLE	10	UNKNOWN	0	DOMESTIC
25474	BAER, RUSSEL	7/8/1975	LUZERNE	41.11306	-76.16361	125	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129140	BAKER W	11/25/1981	LUZERNE	41.08056	-76.18861	325	OPEN HOLE	5	ESTIMATED	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
129149	BANKES R	1/5/1984	LUZERNE	41.15000	-76.16278	150	OPEN HOLE	10	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129190	BCH HVN FIRE CO		LUZERNE	41.06806	-76.16167	100	OPEN HOLE	12	UNKNOWN	40	DOMESTIC
129187	BEACH HAV COM	1/1/1968	LUZERNE	41.06722	-76.16972	51	OPEN HOLE	40	UNKNOWN	12	DOMESTIC
25377	BEACH HAVEN COMMTY. BD	10/21/1968	LUZERNE	41.06722	-76.17167	51	OPEN HOLE	40		12	DOMESTIC
25380	BEACH HAVEN FIRE	4/13/1973	LUZERNE	41.06806	-76.16167	100	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	40	COMMERCIAL
129152	BECHTOLD S	6/22/1987	LUZERNE	41.08000	-76.15861	150	OPEN HOLE	40	ESTIMATED	0	DOMESTIC
129141	BENSCOTER L	5/18/1982	LUZERNE	41.07444	-76.15167	128	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
250899	BIG B DRIVE IN		LUZERNE	41.06560	-76.19720	100		0		0	COMMERCIAL
129223	BLOOM FRANK		LUZERNE	41.11250	-76.19056	150	OPEN HOLE	8	UNKNOWN	0	DOMESTIC
25475	BLOOM, FRANK	10/19/1976	LUZERNE	41.11306	-76.18889	150	OPEN HOLE	8	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129209	BOGART LARUE		LUZERNE	41.09083	-76.20333	125	OPEN HOLE	7	UNKNOWN	0	DOMESTIC
25428	BOGART, LARUE	10/25/1976	LUZERNE	41.09250	-76.20667	125	OPEN HOLE	7	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
25424	BOGNAR, RICHARD	6/1/1976	LUZERNE	41.09056	-76.20222	200	OPEN HOLE	25	REPORTED, METHOD NOT KNOWN	60	DOMESTIC
25413	BOMBUSHIME HARRY	6/22/1973	LUZERNE	41.08583	-76.22333	300	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129210	BOONER RICHARD		LUZERNE	41.09056	-76.20222	200	OPEN HOLE	25	UNKNOWN	60	DOMESTIC
25774	BOSTON, ROBERT	9/20/1973	LUZERNE	41.11861	-76.16611	175	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129196	BRADER HERB		LUZERNE	41.08944	-76.18056	100	OPEN HOLE	12	UNKNOWN	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25768	BRADER, HERB	7/5/1972	LUZERNE	41.08944	-76.18056	100	OPEN HOLE	0		35	DOMESTIC
129157	BUCK J	8/15/1986	LUZERNE	41.07722	-76.20694	125	OPEN HOLE	15		0	DOMESTIC
129189	BURKE RUSSEL		LUZERNE	41.06972	-76.16417	100	OPEN HOLE	8	UNKNOWN	0	DOMESTIC
25384	BURKE, RUSSEL	8/8/1973	LUZERNE	41.06972	-76.16361	100	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
250937	BUTCH'S ONE STOP		LUZERNE	41.06810	-76.16220	140	OPEN HOLE	0		0	COMMERCIAL
421702	SIDBUTLER	9/24/2007	LUZERNE	41.12045	-76.17738	250	OPEN HOLE	15	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25484	CISCO,MR.		LUZERNE	41.12639	-76.14417	145	OPEN HOLE	25		25	DOMESTIC
250847	COUNTRY ESTATES M H COURT		LUZERNE	41.11110	-76.15420	235	OPEN HOLE	20	REPORTED, METHOD NOT KNOWN	54	PUBLIC SUPPLY
129211	COWIE ROBERT		LUZERNE	41.09556	-76.19139	615	OPEN HOLE	2	UNKNOWN	375	DOMESTIC
129148	CRANE L	10/25/1984	LUZERNE	41.14000	-76.20333	200	OPEN HOLE	4	BAILER	0	DOMESTIC
129155	CRANE N	9/26/1986	LUZERNE	41.08556	-76.15306	400	OPEN HOLE	2	ESTIMATED	0	DOMESTIC
25481	CRISBELL, WILLIAM	11/22/1972	LUZERNE	41.12278	-76.16778	110	OPEN HOLE	0		35	UNUSED
129144	DAGOSTINE W	8/10/1982	LUZERNE	41.08000	-76.19667	350	OPEN HOLE	3	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129136	DAGOSTINE W	10/11/1982	LUZERNE	41.07278	-76.21194	550	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129220	DALBERTO NICK		LUZERNE	41.10694	-76.17444	150	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
25466	DALBERTO, NICK	8/12/1976	LUZERNE	41.10694	-76.18278	150	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	UNUSED
129185	DAVENPORT WM	1/1/1968	LUZERNE	41.06722	-76.17639	66		4	UNKNOWN	14	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25379	DAVENPORT, WELLINGTON		LUZERNE	41.06750	-76.17778	0		0		12	DOMESTIC
129166	DAVIS J	4/28/1983	LUZERNE	41.09083	-76.22333	275	OPEN HOLE	7	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129191	DAVIS WILLIAM		LUZERNE	41.06750	-76.16389	100	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
25759	DAVIS, WILLIAM	7/9/1973	LUZERNE	41.06694	-76.16556	100	OPEN HOLE	0		7	DOMESTIC
25381	DAVIS,B.S.	1/1/1930	LUZERNE	41.06889	-76.17500	102	OPEN HOLE	9		14	DOMESTIC
129151	DELLEGROTTI P	4/13/1987	LUZERNE	41.07056	-76.22778	150	OPEN HOLE	15	ESTIMATED	0	DOMESTIC
129213	DENN THOMAS		LUZERNE	41.08333	-76.18556	125	OPEN HOLE	10	UNKNOWN	0	DOMESTIC
129153	DESCHAINE B	9/16/1987	LUZERNE	41.09139	-76.21528	450	OPEN HOLE	4	ESTIMATED	0	DOMESTIC
129154	DESCHAINE B	9/15/1987	LUZERNE	41.09083	-76.21472	450	OPEN HOLE	3	ESTIMATED	0	DOMESTIC
25390	DIAUGSTINE NEBBIE	10/14/1974	LUZERNE	41.07167	-76.19667	275	OPEN HOLE	4	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
129198	DIAUGSTINE V		LUZERNE	41.07167	-76.19667	275	OPEN HOLE	4	UNKNOWN	0	DOMESTIC
129192	DOLLMAIV WM		LUZERNE	41.06583	-76.16000	150	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129156	EDWARDS B	7/18/1984	LUZERNE	41.07722	-76.22389	175	OPEN HOLE	6	ESTIMATED	0	DOMESTIC
129221	FATUMA ROMAN		LUZERNE	41.10778	-76.17417	125	OPEN HOLE	8	UNKNOWN	45	DOMESTIC
129147	FEDORCO M	8/31/1983	LUZERNE	41.08278	-76.18611	340	OPEN HOLE	1	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129206	FEISSNOR LARRY		LUZERNE	41.08028	-76.22639	175	OPEN HOLE	10	UNKNOWN	100	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25402	FEISSNOR, LARRY	3/9/1973	LUZERNE	41.07972	-76.22611	175	OPEN HOLE	10	REPORTED, METHOD NOT KNOWN	100	DOMESTIC
25398	FOX, CLARENCE		LUZERNE	41.07611	-76.13500	55	UNKNOWN	0		0	DOMESTIC
129184	FULLER MAURICE	1/1/1968	LUZERNE	41.06944	-76.16750	80	OPEN HOLE	32	UNKNOWN	12	DOMESTIC
129178	GARRISON IRVIN	1/1/1966	LUZERNE	41.13917	-76.20528	135	OPEN HOLE	30	UNKNOWN	50	DOMESTIC
25409	GOLOMB, DEBRA	4/25/1970	LUZERNE	41.08333	-76.18556	125	OPEN HOLE	0		9	DOMESTIC
25393	GRIFFIN, GEORGE	1/1/1957	LUZERNE	41.07278	-76.15167	98	UNKNOWN	0		63	DOMESTIC
129227	GRISBELL WM		LUZERNE	41.12278	-76.16778	110	OPEN HOLE	10	UNKNOWN	0	DOMESTIC
129182	GUNTHER BART	1/1/1967	LUZERNE	41.10694	-76.21556	215	OPEN HOLE	4	UNKNOWN	80	DOMESTIC
25465	GUNTHER, BART	9/9/1967	LUZERNE	41.10667	-76.21556	215	OPEN HOLE	4	VOLUMETRIC, WATCH & BUCKET	80	DOMESTIC
129197	GUYER ANTHONY		LUZERNE	41.08500	-76.17333	125	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129164	HART K	10/3/1983	LUZERNE	41.06861	-76.19611	200	OPEN HOLE	5		0	DOMESTIC
129181	HAUGH HAROLD W	1/1/1967	LUZERNE	41.07250	-76.19583	193	OPEN HOLE	2	UNKNOWN	75	DOMESTIC
129208	HILLS COMPANY		LUZERNE	41.08694	-76.22056	250	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129226	HIXON WILLIAM		LUZERNE	41.11778	-76.16611	175	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129224	HOLLOWAY THOMAS		LUZERNE	41.11306	-76.18361	125	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
25473	HOLLOWAY, THOMAS	10/3/1974	LUZERNE	41.11278	-76.18250	125	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
129216	HONSE GEORGE		LUZERNE	41.10444	-76.17750	150	OPEN HOLE	5	UNKNOWN	0	DOMESTIC
129137	HONSE JOE	8/9/1978	LUZERNE	41.10111	-76.17056	100		8	ESTIMATED	0	DOMESTIC
25461	HONSE, GEORGE	12/26/1975	LUZERNE	41.10500	-76.17639	150	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25463	HUMMEL, FRED	5/7/1976	LUZERNE	41.10667	-76.13806	90	UNKNOWN	10	REPORTED, METHOD NOT KNOWN	0	PUBLIC SUPPLY
25493	J. ROBINSON	4/1/1979	LUZERNE	41.14000	-76.21500	200	OPEN HOLE	8	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
129146	JOHNSON B	1/28/1988	LUZERNE	41.10111	-76.22833	150	OPEN HOLE	10	ESTIMATED	0	DOMESTIC
129138	JOHNSON R	5/14/1982	LUZERNE	41.11222	-76.16417	200	OPEN HOLE	5	ESTIMATED	0	DOMESTIC
129212	KARCHNER GERALD		LUZERNE	41.08639	-76.19083	130	OPEN HOLE	10	UNKNOWN	25	DOMESTIC
25416	KARCHNER, GERALD	11/9/1967	LUZERNE	41.08639	-76.19139	130	OPEN HOLE	10	ESTIMATED	25	DOMESTIC
129162	KECK R	10/21/1985	LUZERNE	41.09389	-76.21694	500	OPEN HOLE	3	ESTIMATED	0	DOMESTIC
129202	KELLER EARL		LUZERNE	41.10444	-76.21167	125	OPEN HOLE	8	UNKNOWN	0	DOMESTIC
25470	KELLER, EARL	6/26/1973	LUZERNE	41.10361	-76.21167	125	OPEN HOLE	8		0	DOMESTIC
129167	KEMMER C	8/23/1983	LUZERNE	41.07111	-76.19806	350	OPEN HOLE	4	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25418	KENNEDY, MICHAEL	7/5/1974	LUZERNE	41.08694	-76.22278	250	OPEN HOLE	7	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129200	KESSLER HAROLD		LUZERNE	41.08972	-76.22361	300	OPEN HOLE	5	UNKNOWN	0	DOMESTIC
25423	KESSLER, HAROLD	9/14/1973	LUZERNE	41.09028	-76.22333	300	OPEN HOLE	5	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25385	KILLIAN, GENE	3/30/1967	LUZERNE	41.06972	-76.16750	100	OPEN HOLE	20	BAILER	8	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
418914	HAROLDKLEINSMITH	10/25/2006	LUZERNE	41.14197	-76.21738	450	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
25388	KMETOVICZ, GENE	12/9/1967	LUZERNE	41.07056	-76.17611	85	OPEN HOLE	0		22	DOMESTIC
129180	KNORR SAMUEL	1/1/1967	LUZERNE	41.08667	-76.19278	117	OPEN HOLE	8	UNKNOWN	20	DOMESTIC
25420	KNORR, SAMUEL	6/18/1967	LUZERNE	41.08861	-76.18750	117	OPEN HOLE	0		33	DOMESTIC
129214	KOONS ROBERT		LUZERNE	41.07778	-76.18667	125	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129215	KOONS ROBERT		LUZERNE	41.07750	-76.18556	125	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129158	KRAMER B	5/29/1986	LUZERNE	41.07361	-76.17889	300	OPEN HOLE	2	ESTIMATED	0	DOMESTIC
129217	KRISANDA JOHN		LUZERNE	41.10139	-76.17139	100	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
25455	KRISANDA, JOHN	7/8/1975	LUZERNE	41.10111	-76.17167	100	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129159	KYTTLE O	5/1/1985	LUZERNE	41.11111	-76.19306	200	OPEN HOLE	4	ESTIMATED	0	DOMESTIC
129161	LAUBACH B	7/16/1985	LUZERNE	41.10889	-76.21167	225	OPEN HOLE	5	ESTIMATED	0	DOMESTIC
129165	LUCIW T	10/10/1984	LUZERNE	41.10694	-76.18611	150		7	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129150	LUNDY CONSTRUCTION	3/10/1987	LUZERNE	41.06806	-76.16417	325	OPEN HOLE	110	ESTIMATED	0	DOMESTIC
25397	MARKOVICH,M.J.	9/3/1930	LUZERNE	41.07444	-76.14861	100	OPEN HOLE	0		30	DOMESTIC
129160	MASON JR. R	8/23/1985	LUZERNE	41.07778	-76.22361	250	OPEN HOLE	5	ESTIMATED	0	DOMESTIC
25417	MCCOY, DONALD	7/4/1974	LUZERNE	41.08667	-76.22444	250	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25411	MINGLE INN		LUZERNE	41.08417	-76.13972	150	UNKNOWN	0		0	COMMERCIAL
25389	MOLNOR, STEVE	9/24/1976	LUZERNE	41.07139	-76.16778	150	OPEN HOLE	6	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
129194	MOLYNEAUX SHLDN		LUZERNE	41.06917	-76.16639	50	OPEN HOLE	15	UNKNOWN	0	DOMESTIC
25383	MOLYNEAUX, SHELDON	10/4/1974	LUZERNE	41.06917	-76.16694	50	OPEN HOLE	0		2	DOMESTIC
25419	MONT, MICHAIL	10/23/1972	LUZERNE	41.08722	-76.13917	100	OPEN HOLE	0		5	DOMESTIC
129199	MORGAN PIERCE		LUZERNE	41.06722	-76.21750	125	OPEN HOLE	8	UNKNOWN	65	DOMESTIC
129203	NAUNCZEK BENNIE		LUZERNE	41.07972	-76.22528	100	OPEN HOLE	12	UNKNOWN	30	DOMESTIC
129204	NAUNCZEK BENNIE		LUZERNE	41.07417	-76.22750	100	OPEN HOLE	10	UNKNOWN	0	DOMESTIC
129205	NAUNCZEK BENNIE		LUZERNE	41.07417	-76.22611	125	OPEN HOLE	15	UNKNOWN	0	DOMESTIC
25403	NAUNCZEK, BENNIE	8/19/1971	LUZERNE	41.08000	-76.22472	100	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	30	DOMESTIC
25395	NAUNCZEK, BENNIE	5/2/1977	LUZERNE	41.07389	-76.22611	125	OPEN HOLE	0		26	DOMESTIC
25396	NAUNCZEK, BENNIE	3/16/1976	LUZERNE	41.07389	-76.22750	100	OPEN HOLE	0		15	COMMERCIAL
129174	PA POWER &LIGHT	1/1/1973	LUZERNE	41.09250	-76.13167	81	SCREEN	500		8	INDUSTRIAL
129175	PA POWER &LIGHT	1/1/1973	LUZERNE	41.09250	-76.13167	96	PERFORATED OR SLOTTED	0		0	
129176	PA POWER &LIGHT	1/1/1973	LUZERNE	41.09806	-76.13167	54	PERFORATED OR SLOTTED	0		0	
25425	PA. POWER AND LIGHT	12/14/1970	LUZERNE	41.09083	-76.14472	0	OPEN HOLE	0		21	UNUSED

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25426	PA. POWER AND LIGHT	9/29/1970	LUZERNE	41.09194	-76.14417	0	OPEN HOLE	0		17	UNUSED
25427	PA. POWER AND LIGHT	11/18/1970	LUZERNE	41.09194	-76.14778	0	OPEN HOLE	0		7	UNUSED
25429	PA. POWER AND LIGHT	8/1/1972	LUZERNE	41.09278	-76.13306	55	UNKNOWN	0		0	UNUSED
25430	PA. POWER AND LIGHT	10/20/1970	LUZERNE	41.09278	-76.14361	0	OPEN HOLE	0		27	UNUSED
25431	PA. POWER AND LIGHT	11/16/1970	LUZERNE	41.09278	-76.14472	0	OPEN HOLE	0		26	UNUSED
25432	PA. POWER AND LIGHT	11/20/1970	LUZERNE	41.09278	-76.14778	0	OPEN HOLE	0		34	UNUSED
25433	PA. POWER AND LIGHT	8/1/1972	LUZERNE	41.09361	-76.13444	23	UNKNOWN	0		0	UNUSED
25434	PA. POWER AND LIGHT	11/18/1970	LUZERNE	41.09389	-76.14417	0	OPEN HOLE	0		28	UNUSED
25456	PA. POWER AND LIGHT	10/12/1977	LUZERNE	41.10250	-76.13722	100	OPEN HOLE	0		25	DOMESTIC
25422	PA. POWER AND LIGHT	10/16/1970	LUZERNE	41.09028	-76.14444	0	OPEN HOLE	0		5	UNUSED
25450	PA. POWER AND LIGHT	11/10/1970	LUZERNE	41.09778	-76.14500	0	OPEN HOLE	0		0	UNUSED
25451	PA. POWER AND LIGHT	1/16/1973	LUZERNE	41.09833	-76.13028	91	UNKNOWN	0		0	UNUSED
25436	PA. POWER AND LIGHT	8/1/1972	LUZERNE	41.09417	-76.13250	75	UNKNOWN	9		25	INDUSTRIAL
25437	PA. POWER AND LIGHT	10/6/1970	LUZERNE	41.09417	-76.14333	0	OPEN HOLE	0		32	UNUSED
25438	PA. POWER AND LIGHT	10/8/1970	LUZERNE	41.09417	-76.14778	0	OPEN HOLE	0		18	UNUSED
25439	PA. POWER AND LIGHT	10/6/1970	LUZERNE	41.09500	-76.14500	0	OPEN HOLE	0		30	UNUSED

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25440	PA. POWER AND LIGHT	10/14/1970	LUZERNE	41.09528	-76.14361	0	OPEN HOLE	0		15	OTHER
25441	PA. POWER AND LIGHT	10/9/1970	LUZERNE	41.09528	-76.14472	0	OPEN HOLE	0		62	UNUSED
25442	PA. POWER AND LIGHT	11/9/1970	LUZERNE	41.09556	-76.14472	0	OPEN HOLE	0		36	UNUSED
25443	PA. POWER AND LIGHT	10/29/1970	LUZERNE	41.09556	-76.14667	0	OPEN HOLE	0		65	UNUSED
25444	PA. POWER AND LIGHT		LUZERNE	41.09583	-76.13028	44	UNKNOWN	0		13	UNUSED
25445	PA. POWER AND LIGHT	10/23/1970	LUZERNE	41.09583	-76.14556	0	OPEN HOLE	0		55	UNUSED
25446	PA. POWER AND LIGHT	11/12/1970	LUZERNE	41.09611	-76.14417	0	OPEN HOLE	0		29	UNUSED
25447	PA. POWER AND LIGHT	10/29/1970	LUZERNE	41.09611	-76.14472	0	OPEN HOLE	0		32	UNUSED
25448	PA. POWER AND LIGHT	10/21/1970	LUZERNE	41.09694	-76.14500	0	OPEN HOLE	0		0	UNUSED
25458	PA. POWER AND LIGHT	1/11/1973	LUZERNE	41.10361	-76.13194	54	UNKNOWN	0		16	UNUSED
25769	PA. POWER AND LIGHT	1/22/1973	LUZERNE	41.09528	-76.13028	58	UNKNOWN	0		8	INDUSTRIAL
25770	PA. POWER AND LIGHT	10/1/1973	LUZERNE	41.09528	-76.13528	0		65		9	INDUSTRIAL
25771	PA. POWER AND LIGHT	10/1/1973	LUZERNE	41.09556	-76.13528	0		150	REPORTED, METHOD NOT KNOWN	17	INDUSTRIAL
129218	PETERS FRANK		LUZERNE	41.10556	-76.18056	150	OPEN HOLE	6	UNKNOWN	0	DOMESTIC
129219	PETERS FRANK		LUZERNE	41.10556	-76.18056	130	OPEN HOLE	8	UNKNOWN	10	DOMESTIC
25462	PETERS, FRANK	1/27/1972	LUZERNE	41.10639	-76.18167	130	OPEN HOLE	0		10	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25464	PETERS, FRANK	8/13/1976	LUZERNE	41.10667	-76.18083	150	OPEN HOLE	6	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129207	PINTERICH ROBT		LUZERNE	41.07306	-76.22556	175	OPEN HOLE	5	UNKNOWN	0	DOMESTIC
25394	PINTERICH, ROBERT	3/12/1976	LUZERNE	41.07389	-76.22528	175	OPEN HOLE	0		36	DOMESTIC
250843	PLEASANT VIEW M H P		LUZERNE	41.08670	-76.18810	300		13	REPORTED, METHOD NOT KNOWN	0	PUBLIC SUPPLY
250844	PLEASANT VIEW M H P		LUZERNE	41.08670	-76.18810	300		60	REPORTED, METHOD NOT KNOWN	0	PUBLIC SUPPLY
250845	PLEASANT VIEW M H P		LUZERNE	41.08670	-76.18500	380	OPEN HOLE	19	REPORTED, METHOD NOT KNOWN	300	PUBLIC SUPPLY
250926	PMC LIFESTYLE		LUZERNE	41.07170	-76.15670	325		50	REPORTED, METHOD NOT KNOWN	0	COMMERCIAL
250956	PP&L SUSQUEHANNA S&A WELLS		LUZERNE	41.09170	-76.14860	75		50	REPORTED, METHOD NOT KNOWN	0	COMMERCIAL
250957	PP&L SUSQUEHANNA S&A WELLS		LUZERNE	41.09170	-76.14860	75		50	REPORTED, METHOD NOT KNOWN	0	COMMERCIAL
129135	PPL COMPANY	8/26/1981	LUZERNE	41.09389	-76.14611	225	OPEN HOLE	35		7	PUBLIC SUPPLY
25382	PRICE, ROBERT B	8/25/1973	LUZERNE	41.06917	-76.15194	125	UNKNOWN	9		48	DOMESTIC
25391	PRICE, ROBERT P	10/11/1967	LUZERNE	41.07250	-76.15194	160	OPEN HOLE	0		63	DOMESTIC
250898	PRIME TIME RESTAURANT		LUZERNE	41.10670	-76.13670	98		0		98	COMMERCIAL
250897	RED BARN CAFE		LUZERNE	41.10830	-76.13890	265		0		20	COMMERCIAL
25468	REICHARD, PAUL	1/7/1973	LUZERNE	41.10778	-76.18250	125	OPEN HOLE	0		45	DOMESTIC
129177	RHINARD VIRGIL	1/1/1966	LUZERNE	41.09778	-76.21417	95	OPEN HOLE	9	UNKNOWN	25	DOMESTIC
25449	RHINARD, VIRGIL	10/27/1966	LUZERNE	41.09750	-76.21556	95	OPEN HOLE	9	VOLUMETRIC, WATCH & BUCKET	25	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
250958	RIVERLANDS RECREATION CENTER		LUZERNE	41.09940	-76.13580	105		30	REPORTED, METHOD NOT KNOWN	0	COMMERCIAL
129188	ROMAN HOMES		LUZERNE	41.06944	-76.16500	125	OPEN HOLE	7	UNKNOWN	0	PUBLIC SUPPLY
129186	SALEM TWP	1/1/1970	LUZERNE	41.08333	-76.14056	175	OPEN HOLE	12	UNKNOWN	0	DOMESTIC
25406	SALEM TWP.	1/4/1970	LUZERNE	41.08222	-76.14056	175	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
129139	SEELLY E	9/8/1980	LUZERNE	41.09333	-76.16944	100	OPEN HOLE	0	ESTIMATED	0	DOMESTIC
129142	SEELY E	9/9/1980	LUZERNE	41.09167	-76.16917	55	OPEN HOLE	0	ESTIMATED	0	DOMESTIC
25374	SEIGFRED WILLIAM	6/15/1976	LUZERNE	41.06556	-76.21056	85	UNKNOWN	25		5	DOMESTIC
129143	SHUMAN S	3/12/1982	LUZERNE	41.06778	-76.17472	410	OPEN HOLE	40	ESTIMATED	0	DOMESTIC
25469	SIESKO,EMIL	9/3/1930	LUZERNE	41.10806	-76.13833	148	OPEN END	0		48	DOMESTIC
25412	SINK, WILLIAM H	18500101	LUZERNE	41.08472	-76.15694	50	WALLED	0		5	DOMESTIC
129222	SITLER LEMUEL		LUZERNE	41.10917	-76.17778	100	OPEN HOLE	12	UNKNOWN	0	DOMESTIC
25471	SITLER, LEMUEL	9/24/1973	LUZERNE	41.10944	-76.17778	100	OPEN HOLE	12	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
250853	SLEEPY HOLLOW MOBILE HOME PARK		LUZERNE	41.13060	-76.22640	125	OPEN HOLE	25	REPORTED, METHOD NOT KNOWN	0	PUBLIC SUPPLY
25761	SMITH, BRAD	2/1/1980	LUZERNE	41.07056	-76.16083	130	OPEN HOLE	0		37	DOMESTIC
250940	SUSQ STEAM ELECTRIC STAT EOF		LUZERNE	41.08720	-76.15440	55		30	REPORTED, METHOD NOT KNOWN	0	COMMERCIAL
129201	SWITZER JIM		LUZERNE	41.10361	-76.21167	75	OPEN HOLE	6	UNKNOWN	35	DOMESTIC
25459	SWITZER, JIM	11/9/1972	LUZERNE	41.10472	-76.21194	75	OPEN HOLE	0		35	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

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PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25762	U.S. GEOL. SURVEY	10/14/1980	LUZERNE	41.07222	-76.15194	102	PERFORATED OR SLOTTED	0		62	UNUSED
25760	U.S. GEOL. SURVEY	10/16/1980	LUZERNE	41.06861	-76.15139	300	OPEN HOLE	0		51	UNUSED
25421	VANDERMARK WILSON	1/1/1959	LUZERNE	41.08889	-76.19250	90	OPEN HOLE	0		65	DOMESTIC
129195	VARNER ARTHUR		LUZERNE	41.08583	-76.19250	125	OPEN HOLE	7	UNKNOWN	0	DOMESTIC
25414	VARNER, ARTHUR	7/16/1974	LUZERNE	41.08611	-76.19194	125	OPEN HOLE	7	ESTIMATED	0	DOMESTIC
25496	W. KISHBAUGH	5/1/1979	LUZERNE	41.14222	-76.19667	150	OPEN HOLE	12	REPORTED, METHOD NOT KNOWN	0	DOMESTIC
25764	WATTS	8/1/1980	LUZERNE	41.07278	-76.18889	230	OPEN HOLE	0		72	DOMESTIC
25767	WEADON BILL	7/3/1974	LUZERNE	41.08472	-76.19167	125	OPEN HOLE	0		38	DOMESTIC
250852	WHIPPORWILL MOBILE HOME PARK		LUZERNE	41.12970	-76.22750	100	GRAVEL PACK W/ SCREEN	15	REPORTED, METHOD NOT KNOWN	90	PUBLIC SUPPLY
129145	YARON D	10/13/1988	LUZERNE	41.07222	-76.14000	450	OPEN HOLE	10	ESTIMATED	0	DOMESTIC
25375	ZETTLE, WILLIAM	1/1/1958	LUZERNE	41.06639	-76.19694	196	OPEN HOLE	0		94	DOMESTIC
129193	ZIETTS ANDY		LUZERNE	41.06611	-76.15778	225	OPEN HOLE	3	UNKNOWN	0	DOMESTIC
129163	ZWALHUSKI A	4/13/1984	LUZERNE	41.08944	-76.20083	100	OPEN HOLE	1	VOLUMETRIC, WATCH & BUCKET	0	DOMESTIC
129183	ZWOLINSKI S	1/1/1967	LUZERNE	41.07194	-76.17556	85	OPEN HOLE	14	UNKNOWN	22	DOMESTIC
129179	ZWOLINSKI STEVE	1/1/1967	LUZERNE	41.06944	-76.16750	100	OPEN HOLE	20	UNKNOWN	15	DOMESTIC

Table 2.3-38— {Groundwater Wells Located Within a 5-Mile (8 km) Radius of BBNPP}

PA Well ID	Owner	Date Drilled	County	Latitude	Longitude	Well Depth (ft bgs)	Well Finish	Well Yield (gpm)	Yield Measure Method	Static Water Level (ft bgs)	Water Use
25387	ZWOLINSKI, STEVEN	8/9/1968	LUZERNE	41.07000	-76.16694	145	OPEN HOLE	20	BAILER	36	DOMESTIC
129228	GROOVER	6/1/1988	LUZERNE	41.15361	-76.15500	100	OPEN HOLE	40	ESTIMATED	20	DOMESTIC
129229	WOOD V	12/5/1988	LUZERNE	41.15167	-76.15750	225	OPEN HOLE	7	ESTIMATED	0	DOMESTIC
129365	FOAMANOWSKI S	3/1/1988	LUZERNE	41.10917	-76.13194	300	OPEN HOLE	15	ESTIMATED	45	DOMESTIC
25516	BALSHAMER,JAKE	10/7/1930	LUZERNE	41.15889	-76.15611	47	OPEN END	0		7	DOMESTIC
25514	SELECKY,FRANK ,M R.	1/1/1955	LUZERNE	41.15722	-76.15583	62	UNKNOWN	40		0	DOMESTIC
28736	BRYFOGLE, KENNETH	7/1/1980	MONTOUR	41.07583	-76.07639	250	UNKNOWN	25		18	COMMERCIAL
190082	SALVATERRA N		SNYDER	41.02278	-76.17556	275	OPEN HOLE	18	UNKNOWN	60	DOMESTIC

Source: DCNR, 2010

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
39	COLUMBIA ASPHALT CORP	HANSON AGGREGATES PA BLOOMSBURG QUARRY	WELL 1	INDUSTRIAL USE	ACTIVE
189	DILLON FLORAL CORP	DILLON FLORAL	WELL 1	AGRICULTURAL USE	ACTIVE
352	BURTAM CORP	BLUE RIDGE TRAIL GC	WELL 2	COMMERCIAL USE	ACTIVE
354	BURTAM CORP	BLUE RIDGE TRAIL GC	WELL 1	COMMERCIAL USE	ACTIVE
1113	WEATHERLY CASTING & MACH CO	WEATHERLY CASTING & MACH MFG	WELL	INDUSTRIAL USE	ACTIVE
1125	KLEERDEX CO	KLEERDEX	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
1249	WISE FOODS INC	WISE FOODS BERWICK SNACK FOOD PLT	WELL	INDUSTRIAL USE	ACTIVE
1621	FED MOGUL CORP	WAGNER MFG	WELL 1A	COMMERCIAL USE	ACTIVE
1622	FED MOGUL CORP	WAGNER MFG	WELL 1B	COMMERCIAL USE	ACTIVE
1623	FED MOGUL CORP	WAGNER MFG	WELL 2A	COMMERCIAL USE	ACTIVE
1624	FED MOGUL CORP	WAGNER MFG	WELL 2B	COMMERCIAL USE	ACTIVE
1625	FED MOGUL CORP	WAGNER MFG	WELL 2C	COMMERCIAL USE	ACTIVE
1626	FED MOGUL CORP	WAGNER MFG	WELL 3A	COMMERCIAL USE	ACTIVE
1627	FED MOGUL CORP	WAGNER MFG	WELL 3B	COMMERCIAL USE	ACTIVE
1628	FED MOGUL CORP	WAGNER MFG	WELL 3C	COMMERCIAL USE	ACTIVE
1629	FED MOGUL CORP	WAGNER MFG	WELL 4A	COMMERCIAL USE	ACTIVE
1630	FED MOGUL CORP	WAGNER MFG	WELL 4B	COMMERCIAL USE	ACTIVE
1631	FED MOGUL CORP	WAGNER MFG	WELL 4C	COMMERCIAL USE	ACTIVE
1632	FED MOGUL CORP	WAGNER MFG	WELL 5A	COMMERCIAL USE	ACTIVE
1633	FED MOGUL CORP	WAGNER MFG	WELL 5B	COMMERCIAL USE	ACTIVE
1634	FED MOGUL CORP	WAGNER MFG	WELL 6A	COMMERCIAL USE	ACTIVE
1635	FED MOGUL CORP	WAGNER MFG	WELL 6B	COMMERCIAL USE	ACTIVE
1636	FED MOGUL CORP	WAGNER MFG	WELL 7B	COMMERCIAL USE	ACTIVE
1701	INTERSIL CORP	FAIRCHILD SEMICONDUCTOR MOUNTAINTOP PLT	RCA WELL	INDUSTRIAL USE	ACTIVE
1758	OI NEG TV PROD INC	OI NEG TV PROD	WELL 1	INDUSTRIAL USE	ACTIVE
1817	NORTHAMPTON FUEL SUPPLY CO INC	JEDDO HIGHLAND PROSPECT MINE	LOCAL MINE POOL	MINERAL USE	ACTIVE
1818	NORTHAMPTON FUEL SUPPLY CO INC	NORTHAMPTON FUEL SUPPLY LOOMIS MINE	UNDERGROUND WELL	MINERAL USE	ACTIVE
1850	FIMBEL DOOR CORP	FIMBEL DOOR	WELL	INDUSTRIAL USE	ACTIVE
1853	GROUSE HUNT FARMS INC	GROUSE HUNT FARMS	WELL	INDUSTRIAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
1953	HARRELL AUTOMATIC SPRINKLER CO	HARRELL AUTOMATIC SPRINKLER	WELL	INDUSTRIAL USE	ACTIVE
1955	CALIFORNIA EAST	CA EAST	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
2016	GENECO SVC INC	GENECO SVC	WITHDR WELL	INDUSTRIAL USE	ACTIVE
2019	VALLEY ORDANCE	VALLEY ORDNANCE	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
2021	BARTSEN MEDIA INC	BARTSEN MEDIA	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
2040	Unavailable	FETTERMAN EUGENE	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
2097	METCALF STEEL SVC	METCALF STEEL SVC	WITH WELL	INDUSTRIAL USE	ACTIVE
2099	R MARTIN PLASTIC SPECIALTIES	R MARTIN PLASTIC SPECIALTIES	WELL	INDUSTRIAL USE	ACTIVE
2188	LITTLE LUMBER CO INC	LITTLE LUMBER	WELL	INDUSTRIAL USE	ACTIVE
2294	SETON MANOR INC	SETON MANOR RUSH TWP SCHUYLKILL CNTY	BOOSTER PARK 1 NORTH (WELL)	COMMERCIAL USE	ACTIVE
2295	SETON MANOR INC	SETON MANOR RUSH TWP SCHUYLKILL CNTY	BOOSTER PARK 2 SOUTH (WELL)	COMMERCIAL USE	ACTIVE
2423	ROBERT W HART & SON INC	ROBERT W HART & SON MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
2541	NATIVE TEXTILES	NATIVE TEXTILE	WITHDRAW WELL	INDUSTRIAL USE	INACTIVE
2609	HUNLOCK SAND & GRAVEL CO	HUNLOCK QUARRY	WELL 1	MINERAL USE	ACTIVE
2729	BARLETTA MATERIALS & CONST INC	BARLETTA HONEY HOLE QUARRY	LAB WELL 2	INDUSTRIAL USE	ACTIVE
2809	BISON MEADOWS LLC	BISON MEADOWS FARM BLYTHE TWP SCHUYLKILL CNTY	SPRING 1	AGRICULTURAL USE	ACTIVE
2814	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 2	INDUSTRIAL USE	ACTIVE
2818	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 3	INDUSTRIAL USE	ACTIVE
2819	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 5	INDUSTRIAL USE	ACTIVE
2820	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 6	INDUSTRIAL USE	ACTIVE
2821	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 4	INDUSTRIAL USE	ACTIVE
2823	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 7	INDUSTRIAL USE	ACTIVE
2824	DEL MONTE CORP	DEL MONTE BLOOMSBURG PLT	WELL 1	INDUSTRIAL USE	ACTIVE
3024	HAZEL PARK PACKING CO	HAZEL PARK PACKING	WELL	INDUSTRIAL USE	ACTIVE
3165	ROB BAR INC	BEAR CREEK INNE	WELL 1	COMMERCIAL USE	ACTIVE
3198	THREE SPRINGS WATER CO	THREE SPRINGS BOTTLED WATER PLT	SPRING 1	INDUSTRIAL USE	ACTIVE
3412	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	MAINTENANCE BUILDING WELL	COMMERCIAL USE	ACTIVE
3600	JEDDO HIGHLAND COAL CO	ROSA BREAKER COAL PREP PLT	RAW MINE WATERING	MINERAL USE	INACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
3680	GROUP MTN SPRINGS	TULPEHOCKEN SPRINGS	BH-1	INDUSTRIAL USE	ACTIVE
3785	EMERALD ANTHRACITE II	HUD TA EMERALD ANTHRACITE	WITHDRAWAL WELLS	MINERAL USE	ACTIVE
3786	EMERALD ANTHRACITE II	HUD TA EMERALD ANTHRACITE	MINE WITHDRAWAL	MINERAL USE	ACTIVE
3825	BRUCH EYE CARE ASSOCS	BRUCH EYE CARE ASSOCS	WITH WELL	INDUSTRIAL USE	ACTIVE
4059	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	MINE 10 DIV	MINERAL USE	ACTIVE
4060	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	MINE 14	MINERAL USE	ACTIVE
4063	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	MINE SPRINGDALE WELL	MINERAL USE	ACTIVE
4064	LEHIGH COAL & NAVIGATION CO	LEHIGH COAL & NAVIGATION LCN MINE	RT 309 DISCHARGE	MINERAL USE	ACTIVE
4178	GEN CRUSHED STONE CO	GEN CRUSHED STONE WHITE HAVEN	WITHDRAWAL WELL	MINERAL USE	ACTIVE
4663	OFFSET PAPERBACK MANUFACTURERS INC	OFFSET PAPERBACK MFG	WELL 1	INDUSTRIAL USE	ACTIVE
4665	OFFSET PAPERBACK MANUFACTURERS INC	OFFSET PAPERBACK MFG	WELL 2	INDUSTRIAL USE	ACTIVE
4666	OFFSET PAPERBACK MANUFACTURERS INC	OFFSET PAPERBACK MFG	WELL 3	INDUSTRIAL USE	ACTIVE
4671	DIAMOND COAL CO INC	MAMMOTH ANTHRACITE LATTIMER BASIN MINE	MINE WITHDRAWAL	MINERAL USE	ACTIVE
4854	CHEROKEE GC	CHEROKEE GC	CLUBHOUSE WELL	COMMERCIAL USE	ACTIVE
4855	CHEROKEE GC	CHEROKEE GC	MAINTENANCE BUILDING WELL	COMMERCIAL USE	ACTIVE
4856	CHEROKEE GC	CHEROKEE GC	RESTROOMS WELL	COMMERCIAL USE	ACTIVE
4857	CHEROKEE GC	CHEROKEE GC	ARARTMENT SOURCE WELL	COMMERCIAL USE	ACTIVE
4904	DRUMS SASH & DOOR CO INC	DRUMS SASH & DOOR MFG	WELL	INDUSTRIAL USE	ACTIVE
4908	GRANT CONCRETE PROD	GRANT CONCRETE PROD	WITH WELL	INDUSTRIAL USE	ACTIVE
4920	QUALITY METAL PROD INC	QUALITY METAL PROD MFG	WELL	INDUSTRIAL USE	ACTIVE
4928	WILLIAM WENTZ INC	WILLIAM WENTZ	WELL	INDUSTRIAL USE	ACTIVE
4977	BEMIS CO INC	BEMIS	WELL	INDUSTRIAL USE	ACTIVE
5146	JAC MAR COAL CO TA L & E COAL	L & E COAL JAC MAR MINE	WITHDRAWAL SURFACE MINE	MINERAL USE	ACTIVE
5155	SILVERBROOK ANTHRACITE INC	SILVERBROOK ANTHRACITE ALDEN BANK 1 MINE	A- SUR MINE WITHDRAWAL	MINERAL USE	ACTIVE
5159	SILVERBROOK ANTHRACITE INC	SILVERBROOK ANTHRACITE LAFLIN BANK	MINE	MINERAL USE	ACTIVE
5538	GERALD & LEWIS NAUGLE	READING MAT PIT 1 QUARRY	WITHDRAWAL WELL	MINERAL USE	ACTIVE
5548	CATAWISSA LUMBER & SPECIALTY CO	CATAWISSA LUMBER MILL	WELL	INDUSTRIAL USE	ACTIVE
5570	RANGER IND	RANGER IND	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
5586	HARMONY ASSOC INC	HARMONY ASSOC	WELL	INDUSTRIAL USE	ACTIVE
5683	LEIBYS DAIRY INC	LEIBYS DAIRY	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
5684	LEIBYS DAIRY INC	LEIBYS DAIRY	SPRING	INDUSTRIAL USE	ACTIVE
5790	FRONT STREET FASHIONS	FRONT STREET FASHIONS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
5794	FARR LUMBER	FARR LUMBER	WELL	INDUSTRIAL USE	ACTIVE
6056	PA COMBINING CORP	PA COMBINING	WITH WELL	INDUSTRIAL USE	ACTIVE
6068	CUSTOM FABRICATION CO	CUSTOM FABRICATION	WITH WELL	INDUSTRIAL USE	ACTIVE
6072	KLINGERMAN GALLICK AG SVC INC	MAINVILLE AG SVC	WITH WELL	INDUSTRIAL USE	ACTIVE
6074	GENSEMERS CUSTOM PROC	GENSEMERS CUSTOM PROC	WELL	INDUSTRIAL USE	ACTIVE
6370	THREE PONDS GC	THREE PONDS GOLF SHOP	CLUB HOUSE WELL	COMMERCIAL USE	ACTIVE
6391	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	CLUBHOUSE WELL	COMMERCIAL USE	ACTIVE
6392	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	UPPER CAMPGROUND WELL	COMMERCIAL USE	ACTIVE
6393	MILL RACE GOLF & CAMP RESORT INC	MILL RACE GC	LOWER CAMPGROUND WELL	COMMERCIAL USE	ACTIVE
6431	FOUNTAIN SPRINGS CC	FOUNTAIN SPRINGS WELL	WELL	COMMERCIAL USE	ACTIVE
6434	FOX HILL CC	FOX HILL CC FILW	HALF WAY WELL	COMMERCIAL USE	ACTIVE
6667	CROP PROD SVC INC	CROP PROD SVC	WITH WELL	INDUSTRIAL USE	ACTIVE
6811	MTN VALLEY GC	MT VALLEY GC	WELL 9	COMMERCIAL USE	ACTIVE
6812	MTN VALLEY GC	MT VALLEY GC	WELL 7	COMMERCIAL USE	ACTIVE
6813	MTN VALLEY GC	MT VALLEY GC	WELL 15	COMMERCIAL USE	ACTIVE
6817	ST JUDE POLYMER CORP	ST JUDE POLYMER FILW & CW	WELL	INDUSTRIAL USE	ACTIVE
7262	GALE COAL CO INC	GALE COAL E KASKA MINE	DEWATERING	MINERAL USE	INACTIVE
7425	BOSTON FARM PROD	BOSTON FARM PROD	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
7427	DEIHL VAULT & PRECAST	DEIHL VAULT & PRECAST	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
7430	HESS READY MIX INC	HESS READY MIX	WELL	INDUSTRIAL USE	ACTIVE
7913	DEL BAR SHEET METAL CO	DEL BAR SHEET METAL	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
7921	CUSTOM METAL PROD INC	CUSTOM METAL PROD	WITH WELL	INDUSTRIAL USE	ACTIVE
7923	COLUMBIA PORCH SHADE CO INC	COLUMBIA PORCH SHADE MFG	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
7925	AUDIMATION CORP	AUDIMATION	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
7937	BRUCE CHARLES SAWMILL	BRUCE CHARLES SAWMILL	WITHDR WELL	INDUSTRIAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
8031	GREENLEAF CROP PROD SVC	GREENLEAF CROP PROD SVC	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
8089	BEAR RIDGE SHOPS INC	BEAR RIDGE SHOPS	WITHDR WELL	INDUSTRIAL USE	ACTIVE
8094	BRIEL TOOL & MACH WORKS	BRIEL TOOL & MACH WORKS PLT	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
8099	BIROS IRON WORKS	BIROS IRON WORKS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
8805	A & E RINGTOWN INC	A & E RINGTOWN	WELL	INDUSTRIAL USE	ACTIVE
8807	HILLAS FASHIONS	HILLAS FASHIONS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
8841	PRECISION TOOL & MACH CO	PRECISION TOOL & MACH	WITH WELL	INDUSTRIAL USE	ACTIVE
8904	SEESHOLTZ BROS INC	SEESHOLTZ BROS	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
8905	SEESHOLTZ BROS INC	SEESHOLTZ BROS	QUARRY WITHDRAWAL	AGRICULTURAL USE	ACTIVE
8906	STREATER & SON INC	STREATER & SON	GROUND WITHDRAWA	AGRICULTURAL USE	ACTIVE
8943	DRESHER FARMS	DRESHER FARMS	SPRING	AGRICULTURAL USE	ACTIVE
9114	READING ANTHRACITE CO	OLD ST NICHOLAS 4 & 5 READING ANTH	MINE WITHDRAWAL	MINERAL USE	ACTIVE
9197	WILKES POOL CORP	WILKES POOL	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
9250	ANDREAS LUMBER INC	ANDREAS LUMBER	SPRING	INDUSTRIAL USE	ACTIVE
9256	BOLYS IRON WORKS	BOLYS IRON WORKS	WITHDR SPRING	INDUSTRIAL USE	ACTIVE
9258	PA ALUM	PA ALUM	WITHDR WELL	INDUSTRIAL USE	ACTIVE
9262	NATL SELECT FABRICS CORP	NATL SELECT FABRICS	WELL 1	INDUSTRIAL USE	ACTIVE
9263	NATL SELECT FABRICS CORP	NATL SELECT FABRICS	WELL 2	INDUSTRIAL USE	ACTIVE
9348	LIFESTYLE HOMES INC	LIFESTYE HOMES	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
9354	BLASCHAK COAL CORP	BLASCHAK COAL ST NICHOLAS MINE	MINE POOL	MINERAL USE	ACTIVE
9434	BRIAR KNITTING MILLS	BRIAR KNITTING MILLS	WELL	INDUSTRIAL USE	ACTIVE
9554	EXPLO TECH	EXPLO TECH	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
9574	Unavailable	BODMAN GERALD J	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
9575	Unavailable	BODMAN GERALD J	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
9674	Unavailable	LEIBY ROBERT C	SPRING	AGRICULTURAL USE	ACTIVE
9720	IREM TEMPLE AAONMS	IREM CC	WELL 1	COMMERCIAL USE	ACTIVE
9774	HOCK TRANSIT MIX CONCRETE INC	HOCK TRANSIT MIX CONCRETE	WELL	INDUSTRIAL USE	ACTIVE
9804	AMER ASPHALT PAVING CO	AMER ASPHALT CHASE QUARRY	MINE WITHDRAWAL	MINERAL USE	ACTIVE
9900	BLOOMSBURG CARPET IND INC	BLOOMSBURG CARPET IND	TWO WITHDR WELLS	INDUSTRIAL USE	ACTIVE
10201	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	WELL 1	COMMERCIAL USE	ACTIVE
10202	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	WELL 2	COMMERCIAL USE	ACTIVE
10245	GEN TANK INC	GEN TANK	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
10257	COUNTRY COUSINS SHOES INC	COUNTRY COUSINS SHOES	WELL	INDUSTRIAL USE	ACTIVE
10362	WYOMING VALLEY CC	WYOMING VALLEY CC POND	WELL 1	COMMERCIAL USE	ACTIVE
10379	CARBONITE FILTER CORP	CARBONITE FILTER	WELL 1	MINERAL USE	ACTIVE
10383	CARBONITE FILTER CORP	CARBONITE FILTER	WELL	INDUSTRIAL USE	ACTIVE
10396	BARRETT HAENTJENS & CO	BARRETT HAENTJENS	WELL	INDUSTRIAL USE	ACTIVE
10460	WAGNERS FRUIT FARM	WAGNERS FRUIT FARM	WELL WITHDRAWAL	AGRICULTURAL USE	ACTIVE
10461	WAGNERS FRUIT FARM	WAGNERS FRUIT FARM	SPRING WITHDRAWAL	AGRICULTURAL USE	ACTIVE
10552	BENTON FOUNDRY INC	BENTON FOUNDRY	WELL 1	INDUSTRIAL USE	ACTIVE
10648	SPRING HILL FARM INC	SPRINGHILL FARMS	WITH WELL	INDUSTRIAL USE	ACTIVE
10735	Unavailable	HETHERINGTON RAYMOND	SPRING	AGRICULTURAL USE	ACTIVE
11002	BERWICK WEAVING INC	BERWICK WEAVING	WELL 1	INDUSTRIAL USE	ACTIVE
11166	VALLEY CC	VALLEY CC	PARKING LOT WELL	COMMERCIAL USE	ACTIVE
11169	VALLEY CC	VALLEY CC	DRINKING WATER WELL	COMMERCIAL USE	ACTIVE
11170	VALLEY CC	VALLEY CC	SHOP WELL	COMMERCIAL USE	ACTIVE
11171	LEHMAN GC	LEHMAN GC	WELL	COMMERCIAL USE	ACTIVE
11173	FARMERS COOP DAIRY INC	FARMERS COOP DAIRY	WITHDRAW WELLS	INDUSTRIAL USE	ACTIVE
11251	IA CONST CORP	GROVANIA ASPHALT PLT	WELL	INDUSTRIAL USE	INACTIVE
11313	BRIAR HEIGHTS INC	ROLLING PINES GC WATER SYS	WELL 1	COMMERCIAL USE	ACTIVE
11314	BRIAR HEIGHTS INC	ROLLING PINES GC WATER SYS	WELL 2	COMMERCIAL USE	ACTIVE
11338	WHITE BIRCH GC INC	WHITE BIRCH GC	SPRG 1	COMMERCIAL USE	ACTIVE
11472	RIVERVIEW VIBRATED BLOCK CO	RIVERVIEW BLOCK MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
12006	SCHULTZ ELECTROPLATING INC	SCHULTZ ELECTROPLATING	WITHD WELL	INDUSTRIAL USE	ACTIVE
12353	UAE COALCORP ASSOC	UAE COALCORP HARMONY MINE	WITHDRAWAL WELL	MINERAL USE	ACTIVE
12399	BALD EAGLE COAL CO INC	BALD EAGLE COAL WHITE PINE MINE	DEWATERING	MINERAL USE	INACTIVE
12475	KELLY INVESTORS INC	KELLY INVESTORS KELLY 1 MINE	WELL WITHDRAWAL	MINERAL USE	INACTIVE
12502	INTERCOAL INC	INTERCOAL COAL PREP PLT	WELL	MINERAL USE	ACTIVE
12504	SMALL MTN QUARRY INC	PENNSY SUPPLY SMALL MTN III QUARRY & SLUSSER BROS PLT	WELL 1	MINERAL USE	ACTIVE
12508	SMALL MTN QUARRY INC	PENNSY SUPPLY SMALL MTN III QUARRY & SLUSSER BROS PLT	MINE DIV	MINERAL USE	ACTIVE
12648	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG QUARRY	DUST CONTROL WELL	MINERAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
12651	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG QUARRY	SANITARY WELL	MINERAL USE	ACTIVE
12653	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG S & G QUARRY	S & G PIT WATER	MINERAL USE	ACTIVE
12655	HANSON AGGREGATES PENNSYLVANIA INC	HANSON AGGREGATES PA BLOOMSBURG S & G QUARRY	WELLS	MINERAL USE	ACTIVE
12754	Unavailable	SWEET VALLEY GC	WITHDRAW WELL	COMMERCIAL USE	ACTIVE
12758	JEBBON MFG CORP	JEBBON MFG	WITHDRAW WELL	INDUSTRIAL USE	INACTIVE
12776	HEMLOCK VALLEY CAMPGROUND	HEMLOCK VALLEY CAMPGROUND	WELL 1	COMMERCIAL USE	ACTIVE
13009	BEAVER BROOK COAL CO	BEAVER BROOK COAL MINE	QUARRY WITHDRAWAL	MINERAL USE	ACTIVE
13112	FIBERITE INC	FIBERITE	WELL	INDUSTRIAL USE	ACTIVE
13133	CTL ASPHALT MATERIALS INC	CTL ASPHALT MATERIALS	TWO WITHDRAW WELLS	INDUSTRIAL USE	ACTIVE
13165	S & B FOUNDRY CO	BLOOMSBURG FOUNDRY	WELL	INDUSTRIAL USE	ACTIVE
13203	AIR PROD & CHEM INC	AIR PROD & CHEM TAMAQUA PLT	BOOSTER PARK 1 NORTH	INDUSTRIAL USE	ACTIVE
13606	BEAR GAP STONE INC	BEAR GAP QUARRY	FRESH WATER	MINERAL USE	ACTIVE
13894	MILLVILLE PROD	MILLVILLE PROD	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
13904	COLUMBIA GRAPHICS INC	COLUMBIA GRAPHICS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
13929	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 1	INDUSTRIAL USE	ACTIVE
13931	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 2	INDUSTRIAL USE	ACTIVE
13932	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 3	INDUSTRIAL USE	ACTIVE
13933	AMETEK CORPORATE OFC	AMETEK WESTCHESTER PLASTICS DIV	WELL 4	INDUSTRIAL USE	ACTIVE
14495	BROCKMAN SHEET METAL	BROCKMAN SHEET METAL	WITHD SPRING	INDUSTRIAL USE	ACTIVE
15567	SILBERLINE MFG CO INC	SILBERLINE MFG LANSFORD PLT	WELL 1	INDUSTRIAL USE	ACTIVE
15568	SILBERLINE MFG CO INC	SILBERLINE MFG LANSFORD PLT	WELL 2	INDUSTRIAL USE	ACTIVE
15569	SILBERLINE MFG CO INC	SILBERLINE MFG LANSFORD PLT	WELL 3	INDUSTRIAL USE	ACTIVE
16007	BRADFORD CLOCKS LTD	BRADFORD CLOCKS	WITHD WELL	INDUSTRIAL USE	ACTIVE
16107	STONE CONTAINER CORP	BEMIS	WELL	INDUSTRIAL USE	ACTIVE
16169	UNIVERSAL FOREST PROD INC	UNIVERSAL FOREST PROD EASTERN DIV	PLANT WELL	INDUSTRIAL USE	ACTIVE
16171	UNIVERSAL FOREST PROD INC	UNIVERSAL FOREST PROD EASTERN DIV	OFFICE WELL	INDUSTRIAL USE	ACTIVE
16362	CHROMATEX INC	CHROMATEX	WELL 1	INDUSTRIAL USE	ACTIVE
16364	CHROMATEX INC	CHROMATEX	WELL	INDUSTRIAL USE	ACTIVE
16385	BLOOMSBURG MILLS INC	BLOOMSBURG MILLS	THREE WITHDR WELLS	INDUSTRIAL USE	ACTIVE
16424	ALTADIS USA INC	ALTADIS USA MCADOO PLT	WELL 6	INDUSTRIAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
16496	R VALLEY FARMS	R VALLEY FARMS BEAVER TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
16515	WEIR HAZLETON INC	HAZLETON CASTING	WELL	INDUSTRIAL USE	ACTIVE
16796	Unavailable	COLLINS TOOL CORP	WELL	INDUSTRIAL USE	ACTIVE
16850	ALTADIS USA INC	ALTADIS USA MCADOO PLT	WELL 5	INDUSTRIAL USE	ACTIVE
16865	CASTEK INC	CASTEK	WELL 1	INDUSTRIAL USE	ACTIVE
17594	TEE TO GREEN GOLF CTR	TEE TO GREEN GC MFG	WELL	INDUSTRIAL USE	ACTIVE
17604	HOLOVIAKS CH SUPPLY INC	HOLOVIAKS CH SUPPLY MFG	WELL	INDUSTRIAL USE	ACTIVE
17616	DAVIS TROPHIES	DAVIS TROPHIES MFG	WELL	INDUSTRIAL USE	ACTIVE
17622	HIGHWAY EQUIP & SUPPLY CO	HWY EQUIP & SUPPLY MFG	WELL	INDUSTRIAL USE	ACTIVE
17627	DURABOND CORP	DURABOND CARPET UNDERLAY MFG	WELL	INDUSTRIAL USE	ACTIVE
18143	FABCON EAST LLC	FABCON E	WELL 2	INDUSTRIAL USE	ACTIVE
18218	HOLLYWOOD MILLWORK	HOLLYWOOD MILLWORK	WELL	INDUSTRIAL USE	ACTIVE
18219	PRECISION LITHO GRAPHICS	PRECISION LITHO GRAPHICS	WELL	INDUSTRIAL USE	ACTIVE
18225	MC BON CORP	MC BON	WELL	INDUSTRIAL USE	ACTIVE
18227	SUGARLOAF PRINT SHOP	SUGARLOAF PRINT SHOP	WELL	INDUSTRIAL USE	ACTIVE
18229	BEACH MACH & GEAR	BEACH MACH & GEAR	WELL	INDUSTRIAL USE	ACTIVE
18715	KOCHS TURKEY FARM	KOCHS TURKEY FARM WALKER TWP SCHUYLKILL CNTY	GROUND WATER HATCHERY	AGRICULTURAL USE	ACTIVE
18716	KOCHS TURKEY FARM	KOCHS TURKEY FARM WALKER TWP SCHUYLKILL CNTY	GROUND WATER WELL 4	AGRICULTURAL USE	ACTIVE
18747	ALCOA KAMA INC	MULTI-PLASTICS EXTRUSIONS INC	WELL	INDUSTRIAL USE	ACTIVE
18824	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	CLUB HOUSE WELL	COMMERCIAL USE	ACTIVE
18825	FROSTY VALLEY CC	FROSTY VALLEY CC WELL 1	BARN WELL	COMMERCIAL USE	ACTIVE
18973	Unavailable	PAUL R LEVAN & SONS FARM LOCUST TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
18989	Unavailable	RAY LEVAN FARM LOCUST TWP COLUMBIA CNTY	SPRING 1	AGRICULTURAL USE	ACTIVE
18990	Unavailable	RAY LEVAN FARM LOCUST TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
18996	Unavailable	ROBERT E KARNES FARM LOCUST TWP COLUMBIA CNTY	WELL AT HOUSE	AGRICULTURAL USE	ACTIVE
18997	Unavailable	ROBERT E KARNES FARM LOCUST TWP COLUMBIA CNTY	WELL AT BARN	AGRICULTURAL USE	ACTIVE
19172	HAZLETON MATERIALS LLC	HAZLETON MATERIALS FOSTER TWP LUZERNE CNTY	PRODUCTION WELL	MINERAL USE	ACTIVE

Table 2.3-39— {Groundwater Withdrawals Located Within a 25-Mile (40-km) Radius of BBNPP}

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SITE ID	ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
19173	HAZLETON MATERIALS LLC	HAZLETON MATERIALS FOSTER TWP LUZERNE CNTY	SCALEHOUSE WELL	MINERAL USE	ACTIVE
19174	HAZLETON MATERIALS LLC	HAZLETON MATERIALS FOSTER TWP LUZERNE CNTY	WASH PLANT WELL	MINERAL USE	ACTIVE
19243	Unavailable	WINSTON A JARRARD FARM ROARING CREEK TWP COLUMBIA CNTY	WELL 1	AGRICULTURAL USE	ACTIVE
19409	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	POND MAKEUP WELL	MINERAL USE	ACTIVE
19410	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	PRIMARY PLANT WELL	MINERAL USE	ACTIVE
19411	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	SCALEHOUSE WELL	MINERAL USE	ACTIVE
19412	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	GARAGE WELL	MINERAL USE	ACTIVE
19413	READING MATERIALS INC	HAINES & KIBBLEHOUSE PIKES CREEK ASPHALT	PORTABLE PLANT WELL	MINERAL USE	ACTIVE
19467	PHILA CITY TRUSTEE GIRARD ESTATE	PHILA CONTINENTAL MINE	MINE DEWATERING PUMP 1	MINERAL USE	ACTIVE
19468	PHILA CITY TRUSTEE GIRARD ESTATE	PHILA CONTINENTAL MINE	MINE DEWATERING PUMP 2	MINERAL USE	ACTIVE
19526	KAREN MFG CO INC	KAREN MFG	WITHDRAW WELL	INDUSTRIAL USE	INACTIVE
19676	GROUP MTN SPRINGS	SUGARLOAF MTN SPRINGS BENTON TWP COLUMBIA CNTY	SUGARLOAF MOUNTAIN SPRING	INDUSTRIAL USE	ACTIVE
19890	PA FISH & BOAT COMM FISHERIES BUR	BEAVER TWP ROD & GUN CLUB COLUMBIA CNTY	UNNAMED SPRING TRIBUTARY TO SCOTCH RUN	AGRICULTURAL USE	ACTIVE
20160	EAGLE ROCK COMM ASSOC INC	EAGLE ROCK RESORT	WELL C	COMMERCIAL USE	ACTIVE
20161	EAGLE ROCK COMM ASSOC INC	EAGLE ROCK RESORT	WELL A	COMMERCIAL USE	ACTIVE
20253	VALLEY CC	VALLEY CC	PUMPHOUSE WELL	COMMERCIAL USE	ACTIVE
20439	COATES TONERS	COATES TONERS	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE

Source: PADEP, 2010d

Table 2.3-40— {Groundwater Withdrawals Located Within a 5-Mile (8-km) Radius of BBNPP}

ORGANIZATION	SITE NAME	SUB FACILITY	USE TYPE	SITE STATUS
ROBERT W HART & SON INC	ROBERT W HART & SON MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
BARLETTA MATERIALS & CONST	BARLETTA HONEY HOLE QUARRY	LAB WELL 2	INDUSTRIAL USE	ACTIVE
AUDIMATION CORP	AUDIMATION	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
ANDREAS LUMBER INC	ANDREAS LUMBER	SPRING	INDUSTRIAL USE	ACTIVE
LIFESTYLE HOMES INC	LIFESTYE HOMES	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
GEN TANK INC	GEN TANK	WITHDRAW WELL	INDUSTRIAL USE	ACTIVE
COUNTRY COUSINS SHOES INC	COUNTRY COUSINS SHOES	WELL	INDUSTRIAL USE	ACTIVE
BERWICK WEAVING INC	BERWICK WEAVING	WELL 1	INDUSTRIAL USE	ACTIVE
RIVERVIEW VIBRATED BLOCK CO	RIVERVIEW BLOCK MFG	WITH WELL	INDUSTRIAL USE	ACTIVE
BROCKMAN SHEET METAL	BROCKMAN SHEET METAL	WITHD SPRING	INDUSTRIAL USE	ACTIVE
CASTEK INC	CASTEK	WELL 1	INDUSTRIAL USE	ACTIVE
DURABOND CORP	DURABOND CARPET UNDERLAY MFG	WELL	INDUSTRIAL USE	ACTIVE
BEACH MACH & GEAR	BEACH MACH & GEAR	WELL	INDUSTRIAL USE	ACTIVE
Source: PADEP, 2010d				

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400001	RIVERVIEW VILLAGE MHP	COMMUNITY	100	Luzerne	WELL #1	PERMANENT	14,000
2400003	ECHO VALLEY MHP	COMMUNITY	490	Luzerne	WELL #1	PERMANENT	66,000
2400007	LEHMAN HOME PARK	COMMUNITY	98	Luzerne	WELL	PERMANENT	37,000
2400008	TOWER 80 81 LLC	COMMUNITY	55	Luzerne	WELL 1	ABANDONED	43,200
2400008	TOWER 80 81 LLC	COMMUNITY	55	Luzerne	WELL 2	PERMANENT	43,200
2400012	AQUA PA FIELDCREST	COMMUNITY	110	Luzerne	WELL 1	PERMANENT	63,000
2400017	CHASE MANOR WATER ASSOC	COMMUNITY	145	Luzerne	WELL #1	PERMANENT	18,720
2400017	CHASE MANOR WATER ASSOC	COMMUNITY	145	Luzerne	WELL #2	PERMANENT	6,840
2400023	KEYSTONE JOB CORPS CENTER	COMMUNITY	950	Luzerne	WELL #1	PERMANENT	100,800
2400023	KEYSTONE JOB CORPS CENTER	COMMUNITY	950	Luzerne	WELL #2	PERMANENT	223,200
2400023	KEYSTONE JOB CORPS CENTER	COMMUNITY	950	Luzerne	WELL #3	PERMANENT	216,000
2400024	BONHAM NURSING CENTER	COMMUNITY	90	Luzerne	WELL 1	EMERGENCY	10,000
2400024	BONHAM NURSING CENTER	COMMUNITY	90	Luzerne	WELL 2	PERMANENT	15,000
2400026	PENN ST WILKES BARRE CAMPUS	NONTRANSIENT NONCOMM	891	Luzerne	WELL 1	PERMANENT	50,000
2400026	PENN ST WILKES BARRE CAMPUS	NONTRANSIENT NONCOMM	891	Luzerne	WELL 2	PERMANENT	54,000
2400027	LAKESIDE NURSING HOME	COMMUNITY	91	Luzerne	WELL #1	PERMANENT	14,000
2400029	AQUA PA SHICKSHINNY LAKE	COMMUNITY	250	Luzerne	CHEROKEE WELL	ABANDONED	14,000
2400029	AQUA PA SHICKSHINNY LAKE	COMMUNITY	250	Luzerne	SENECA WELL	ABANDONED	7,000
2400029	AQUA PA SHICKSHINNY LAKE	COMMUNITY	250	Luzerne	CHEROKEE NEW WELL	PERMANENT	.
2400029	AQUA PA SHICKSHINNY LAKE	COMMUNITY	250	Luzerne	APACHE NEW WELL	PERMANENT	.
2400031	4 SEASONS ESTATES	COMMUNITY	98	Luzerne	WELL 1	PERMANENT	37,440
2400031	4 SEASONS ESTATES	COMMUNITY	98	Luzerne	WELL 2	PERMANENT	31,680
2400034	LAUREL RUN ESTATES	COMMUNITY	340	Luzerne	WELL #2	PERMANENT	21,000
2400034	LAUREL RUN ESTATES	COMMUNITY	340	Luzerne	WELL #3	RESERVE	72,000
2400034	LAUREL RUN ESTATES	COMMUNITY	340	Luzerne	WELL #4	PERMANENT	31,000
2400036	COUNTRY CREST MHP	COMMUNITY	150	Luzerne	LOWER WELL #1	PERMANENT	17,000
2400036	COUNTRY CREST MHP	COMMUNITY	150	Luzerne	WELL #2 BEHIND BLDG	RESERVE	11,000
2400038	VALLEY STREAM MHP	COMMUNITY	384	Luzerne	WELL 1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400038	VALLEY STREAM MHP	COMMUNITY	384	Luzerne	WELL 3	PERMANENT	.
2400038	VALLEY STREAM MHP	COMMUNITY	384	Luzerne	WELL #4	EMERGENCY	.
2400039	HANSON PARK MHP	COMMUNITY	126	Luzerne	WELL 1	PERMANENT	18,720
2400041	COUNTRY VILLAGE MHP	COMMUNITY	175	Luzerne	WELL #1	PERMANENT	43,200
2400042	BEECHCREST MHP	COMMUNITY	40	Luzerne	WELL #1	PERMANENT	.
2400043	PLEASANT VIEW MHP	COMMUNITY	95	Luzerne	WELL 1	ABANDONED	14,000
2400043	PLEASANT VIEW MHP	COMMUNITY	95	Luzerne	WELL 3	RESERVE	18,000
2400043	PLEASANT VIEW MHP	COMMUNITY	95	Luzerne	WELL 4 GOLOMB HOUSE	PERMANENT	86,000
2400043	PLEASANT VIEW MHP	COMMUNITY	95	Luzerne	WELL 5 TRMT BLDG	PERMANENT	28,000
2400046	COUNTRY ESTATES MHP	COMMUNITY	25	Luzerne	WELL	PERMANENT	28,800
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	WELL #1	PERMANENT	36,000
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	WELL #2	ABANDONED	28,800
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	WELL #3	PERMANENT	72,000
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	WELL 5	PERMANENT	80,000
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	WELL 6	PERMANENT	252,000
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	BOREHOLE	ABANDONED	.
2400048	CONYNGHAM WATER CO	COMMUNITY	2,400	Luzerne	WELL 7	PERMANENT	216,000
2400049	EVERGREEN MHP	COMMUNITY	140	Luzerne	WELL #1	PERMANENT	5,000
2400049	EVERGREEN MHP	COMMUNITY	140	Luzerne	WELL #2	PERMANENT	22,000
2400050	COUNTRY PINE ESTATES	COMMUNITY	280	Luzerne	WELL #1	PERMANENT	18,000
2400050	COUNTRY PINE ESTATES	COMMUNITY	280	Luzerne	WELL #2	PERMANENT	16,000
2400051	VALLEY VIEW MHP	COMMUNITY	480	Luzerne	WELL #1	PERMANENT	109,000
2400052	DALLAS MHP	COMMUNITY	65	Luzerne	WELL #1	PERMANENT	28,000
2400052	DALLAS MHP	COMMUNITY	65	Luzerne	WELL #2	PERMANENT	44,000
2400053	AQUA PA HEX ACRES	COMMUNITY	255	Luzerne	WELL #1 INSIDE WELL	PERMANENT	84,000
2400053	AQUA PA HEX ACRES	COMMUNITY	255	Luzerne	WELL #2 HILLSIDE WEL	PERMANENT	43,000
2400053	AQUA PA HEX ACRES	COMMUNITY	255	Luzerne	WELL #3 OUTSIDE WELL	PERMANENT	.
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 4	PERMANENT	252,000

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 6	PERMANENT	252,000
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 9	PERMANENT	180,000
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 10	PERMANENT	130,000
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 11	PERMANENT	360,000
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 12	PERMANENT	115,200
2400054	FREELAND BORO MUNI WATER AUTH	COMMUNITY	4,610	Luzerne	WELL 17 UPPER LEHIGH	PERMANENT	324,000
2400055	MAPLE LANE ESTATE	COMMUNITY	200	Luzerne	WELL 1	PERMANENT	52,000
2400055	MAPLE LANE ESTATE	COMMUNITY	200	Luzerne	WELL 2	PERMANENT	52,000
2400055	MAPLE LANE ESTATE	COMMUNITY	200	Luzerne	WELL 3	PERMANENT	52,000
2400060	SWEET VALLEY MHP	COMMUNITY	60	Luzerne	WELL 1	PERMANENT	17,000
2400060	SWEET VALLEY MHP	COMMUNITY	60	Luzerne	WELL 2	PERMANENT	17,000
2400063	WHIPPERWILL MHP	COMMUNITY	25	Luzerne	WELL 1	PERMANENT	21,000
2400066	AQUA PA WAPWALLOPEN	COMMUNITY	239	Luzerne	SPRING 1	ABANDONED	0
2400066	AQUA PA WAPWALLOPEN	COMMUNITY	239	Luzerne	SPRING 2	ABANDONED	0
2400066	AQUA PA WAPWALLOPEN	COMMUNITY	239	Luzerne	WELL	ABANDONED	72,000
2400066	AQUA PA WAPWALLOPEN	COMMUNITY	239	Luzerne	WELL 2	PERMANENT	74,880
2400067	AQUA PA TAMBUR	COMMUNITY	90	Luzerne	WELL #1	PERMANENT	0
2400068	HYLAND MHP	COMMUNITY	75	Luzerne	WELL #1	PERMANENT	17,280
2400070	PAWC HILLCREST	COMMUNITY	123	Luzerne	WELL 1	PERMANENT	28,000
2400072	PAWC HOMESITE	COMMUNITY	55	Luzerne	WELL 1	PERMANENT	20,000
2400073	UNITED WATER BROWN MANOR	COMMUNITY	91	Luzerne	WELL #1	PERMANENT	25,000
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D1 SCHOOLEY	PERMANENT	244,800
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D2 SNYDER	PERMANENT	144,000
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D3 BUNN	PERMANENT	144,000
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D4 COUNTRY CLUB	PERMANENT	102,240
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D5 CENTER HILL	ABANDONED	101,000
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D6 HADDONFIELD	PERMANENT	40,320

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D7 42ND ST	ABANDONED	40,000
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D8 DATTENER	ABANDONED	0
2400076	UNITED WATER PA DALLAS	COMMUNITY	5,113	Luzerne	D9 GEPHART WELL	PERMANENT	216,000
2400078	AQUA PA FOREST PARK	COMMUNITY	420	Luzerne	WELL #1 WEST PARKWAY	PERMANENT	43,200
2400078	AQUA PA FOREST PARK	COMMUNITY	420	Luzerne	WELL #2 EAST PARKWAY	ABANDONED	22,000
2400078	AQUA PA FOREST PARK	COMMUNITY	420	Luzerne	EAST PARKWAY WELL 2	PERMANENT	86,400
2400079	AQUA PA PENN LAKE	COMMUNITY	150	Luzerne	WELL #1	PERMANENT	92,160
2400082	OVERBROOK WATER COMPANY	COMMUNITY	475	Luzerne	WELL 1 WARREN AVE	PERMANENT	14,000
2400082	OVERBROOK WATER COMPANY	COMMUNITY	475	Luzerne	WELL 2 WARREN AVE	PERMANENT	21,000
2400082	OVERBROOK WATER COMPANY	COMMUNITY	475	Luzerne	ABANDOND WARREN AVE	ABANDONED	36,000
2400082	OVERBROOK WATER COMPANY	COMMUNITY	475	Luzerne	WELL 3 OVERBROOK RD	PERMANENT	72,000
2400083	AQUA PA APPLEWOOD	COMMUNITY	82	Luzerne	WELL #1	PERMANENT	50,000
2400085	AQUA PA BARRETT	COMMUNITY	107	Luzerne	WELL #1	PERMANENT	0
2400086	INDIAN SPRINGS WATER CO	COMMUNITY	137	Luzerne	SPRING #1	PERMANENT	0
2400089	AQUA PA GARBUSH	COMMUNITY	200	Luzerne	WELL #1	PERMANENT	57,000
2400089	AQUA PA GARBUSH	COMMUNITY	200	Luzerne	WELL #2	PERMANENT	86,400
2400091	UNITED WATER PA SHAVERTOWN	COMMUNITY	3,035	Luzerne	SALLA S1	PERMANENT	288,000
2400091	UNITED WATER PA SHAVERTOWN	COMMUNITY	3,035	Luzerne	SOURCE 002 HASSOLD	PERMANENT	.
2400095	AQUA PA OAKHILL	COMMUNITY	486	Luzerne	PARK DR WELL 1	RESERVE	24,480
2400095	AQUA PA OAKHILL	COMMUNITY	486	Luzerne	MAPLE ST WELL 2	PERMANENT	86,400
2400095	AQUA PA OAKHILL	COMMUNITY	486	Luzerne	OAK DRIVE WELL 4	PERMANENT	144,000
2400096	TOWN & COUNTRY MANOR ASSOC	COMMUNITY	79	Luzerne	WELL 1 INSIDE	PERMANENT	60,000
2400096	TOWN & COUNTRY MANOR ASSOC	COMMUNITY	79	Luzerne	WELL 2 OUTSIDE	PERMANENT	60,000
2400101	AQUA PA RHODES TERRACE	COMMUNITY	68	Luzerne	RHODES TERRACE WELL	PERMANENT	65,000
2400102	AQUA PA WARDEN PLACE	COMMUNITY	175	Luzerne	WARDEN PLACE WELL 1	PERMANENT	0

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400102	AQUA PA WARDEN PLACE	COMMUNITY	175	Luzerne	WELL 2	ABANDONED	0
2400103	UNITED WATER PA HARVEYS LAKE	COMMUNITY	200	Luzerne	CARPENTER RD NEW WEL	PERMANENT	43,200
2400103	UNITED WATER PA HARVEYS LAKE	COMMUNITY	200	Luzerne	ISLAND OLD WELL	PERMANENT	31,680
2400104	AQUA PA MIDWAY SYSTEM	COMMUNITY	1,793	Luzerne	MIDWAY INSIDE WELL	PERMANENT	216,000
2400104	AQUA PA MIDWAY SYSTEM	COMMUNITY	1,793	Luzerne	MIDWAY OUTSIDE WELL	RESERVE	57,600
2400104	AQUA PA MIDWAY SYSTEM	COMMUNITY	1,793	Luzerne	DUG ROAD WELL	PERMANENT	78,000
2400104	AQUA PA MIDWAY SYSTEM	COMMUNITY	1,793	Luzerne	ELEV TANK WELL OLD	PERMANENT	86,400
2400107	ORCHARD EAST WATER ASSOC	COMMUNITY	125	Luzerne	WELL #1	PERMANENT	36,000
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	HILLTOP WELL	PERMANENT	115,000
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	WOODHAVEN EAST WELL	PERMANENT	94,000
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	WOODHAVEN WEST WELL	PERMANENT	173,000
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	LINESVILLE WELL 1	ABANDONED	50,000
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	LINESVILLE WELL 2	ABANDONED	50,000
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	LINESVILLE CREEK	ABANDONED	0
2400108	AQUA PA WHITE HAVEN	COMMUNITY	1,200	Luzerne	SANTEE SPRING	ABANDONED	0
2400109	WHITE HAVEN CENTER	COMMUNITY	659	Luzerne	WELL 11	PERMANENT	208,000
2400109	WHITE HAVEN CENTER	COMMUNITY	659	Luzerne	WELL 12	PERMANENT	216,000
2400109	WHITE HAVEN CENTER	COMMUNITY	659	Luzerne	WELL 13	PERMANENT	216,000
2400109	WHITE HAVEN CENTER	COMMUNITY	659	Luzerne	INDEPENDENCE HOUSE	ABANDONED	2,000
2400110	COUNTRY CLUB APTS	COMMUNITY	240	Luzerne	WELL #1	PERMANENT	36,000
2400110	COUNTRY CLUB APTS	COMMUNITY	240	Luzerne	INTERCON DALLAS	EMERGENCY	0
2400111	AQUA PA LAUREL LAKES VILLAGE	COMMUNITY	475	Luzerne	WELL #1	PERMANENT	8,000
2400111	AQUA PA LAUREL LAKES VILLAGE	COMMUNITY	475	Luzerne	WELL #2	PERMANENT	22,000
2400111	AQUA PA LAUREL LAKES VILLAGE	COMMUNITY	475	Luzerne	IWELL #3	PERMANENT	26,000
2400111	AQUA PA LAUREL LAKES VILLAGE	COMMUNITY	475	Luzerne	WELL #4	PERMANENT	24,000
2400111	AQUA PA LAUREL LAKES VILLAGE	COMMUNITY	475	Luzerne	SOURCE 005	EMERGENCY	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400113	ORCHARD WEST WATER ASSOC	COMMUNITY	90	Luzerne	WELL #1	PERMANENT	72,000
2400114	BEECH MOUNTAIN	COMMUNITY	2,311	Luzerne	WELL 1	PERMANENT	216,000
2400114	BEECH MOUNTAIN	COMMUNITY	2,311	Luzerne	WELL #2	PERMANENT	194,000
2400115	MEADOWS COMPLEX	COMMUNITY	628	Luzerne	WELL #1	PERMANENT	270,720
2400115	MEADOWS COMPLEX	COMMUNITY	628	Luzerne	DALLAS W INTERCONNEC	EMERGENCY	0
2400115	MEADOWS COMPLEX	COMMUNITY	628	Luzerne	SISTERS OF MERCY INT	EMERGENCY	0
2400116	FRITZINGERTOWN SR LIV COMM #1	COMMUNITY	66	Luzerne	WELL 1	PERMANENT	17,280
2400116	FRITZINGERTOWN SR LIV COMM #1	COMMUNITY	66	Luzerne	INTERCONNECTION	RESERVE	.
2400117	BUTLER VALLEY MANOR	COMMUNITY	90	Luzerne	WELL 1	PERMANENT	144,000
2400126	VALLEY GORGE MOBILE HOME PARK	COMMUNITY	61	Luzerne	WELL #1	EMERGENCY	.
2400126	VALLEY GORGE MOBILE HOME PARK	COMMUNITY	61	Luzerne	WELL 2	PERMANENT	8,640
2400126	VALLEY GORGE MOBILE HOME PARK	COMMUNITY	61	Luzerne	WELL 3	EMERGENCY	14,400
2400128	PAWC SUTTON HILLS	COMMUNITY	275	Luzerne	WELL 1	PERMANENT	79,200
2400131	FERNWOOD MANOR	COMMUNITY	26	Luzerne	WELL 1	PERMANENT	.
2400136	SANDY RUN ASSOC	COMMUNITY	47	Luzerne	WELL #1	PERMANENT	46,080
2400139	FRITZINGERTOWN SR LIV COMM #2	COMMUNITY	118	Luzerne	WELL 2	PERMANENT	14,400
2400139	FRITZINGERTOWN SR LIV COMM #2	COMMUNITY	118	Luzerne	SOURCE 002	PERMANENT	.
2400140	SAND SPRINGS	COMMUNITY	840	Luzerne	WELL 01	PERMANENT	72,000
2400140	SAND SPRINGS	COMMUNITY	840	Luzerne	WELL 02	PERMANENT	.
2400140	SAND SPRINGS	COMMUNITY	840	Luzerne	CAN DO WATER SYSTEM	PERMANENT	.
2400142	HILLSIDE CONDOMINIUMS	COMMUNITY	98	Luzerne	WELL	PERMANENT	21,600
2400142	HILLSIDE CONDOMINIUMS	COMMUNITY	98	Luzerne	ORCHARD EAST 2400107	RESERVE	.
2400142	HILLSIDE CONDOMINIUMS	COMMUNITY	98	Luzerne	ORCHARD WEST 2400113	RESERVE	.
2400144	AQUA PA ST JOHNS ESTATES	COMMUNITY	92	Luzerne	WELL #1	PERMANENT	57,600
2400145	SISTERS OF MERCY	COMMUNITY	240	Luzerne	WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400146	PROVIDENCE PLACE OF HAZLETON	COMMUNITY	140	Luzerne	WELL	PERMANENT	64,800
2400147	AQUA PA GREENBRIAR	COMMUNITY	120	Luzerne	WELL # 1	PERMANENT	70,560
2400149	YALICK FARMS	COMMUNITY	7	Luzerne	WELL #1	PERMANENT	90,720
2400149	YALICK FARMS	COMMUNITY	7	Luzerne	WELL #2	PERMANENT	64,800
2400301	JACIES MID WAY	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400303	SALLY PURSELLS COUNTRY INN	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	28,800
2400304	SUGARLOAF GOLF CLUB	TRANSIENT NONCOMM	75	Luzerne	CLUBHOUSE WELL	PERMANENT	0
2400304	SUGARLOAF GOLF CLUB	TRANSIENT NONCOMM	75	Luzerne	TEE 7	ABANDONED	0
2400304	SUGARLOAF GOLF CLUB	TRANSIENT NONCOMM	75	Luzerne	TEE 14	ABANDONED	0
2400305	MEL ROES RESTAURANT	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	0
2400308	DAMENTIS RESTAURANT	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400308	DAMENTIS RESTAURANT	TRANSIENT NONCOMM	50	Luzerne	WELL 2	PERMANENT	0
2400309	STAGE COACH INN	TRANSIENT NONCOMM	30	Luzerne	WELL 1	PERMANENT	10,080
2400313	EVANS ROADHOUSE	TRANSIENT NONCOMM	55	Luzerne	WELL	PERMANENT	.
2400314	DANOS BAR	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400319	BUTLER TWP FIRE CO	TRANSIENT NONCOMM	40	Luzerne	WELL 1	PERMANENT	0
2400320	SNYDERS BACKSTREET PUB	TRANSIENT NONCOMM	35	Luzerne	WELL 1	PERMANENT	0
2400323	WILKES BARRE MUNIC GOLF COURSE	TRANSIENT NONCOMM	225	Luzerne	WELL #1	PERMANENT	2,500
2400326	BEAR CREEK INNE	TRANSIENT NONCOMM	60	Luzerne	WELL #1	PERMANENT	0

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400327	CASINO COUNTRYSIDE INN	TRANSIENT NONCOMM	44	Luzerne	WELL	PERMANENT	.
2400327	CASINO COUNTRYSIDE INN	TRANSIENT NONCOMM	44	Luzerne	SHALLOW WELL	PERMANENT	.
2400332	VALLEY BOWLING LANES	TRANSIENT NONCOMM	70	Luzerne	WELL 1	PERMANENT	0
2400333	DONAHUES FROGTOWNE GRILL	TRANSIENT NONCOMM	60	Luzerne	WELL 1	PERMANENT	0
2400337	DORRANCE INN	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400340	SQUIGS PLACE	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400343	ALBERDEEN INN	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400349	DORRANCE SUNOCO	TRANSIENT NONCOMM	100	Luzerne	WELL	PERMANENT	.
2400351	AMER LEGION MTN POST 781	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400355	TRAILS END RESTAURANT	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	.
2400356	SPENCERS WESTERN CAFE	TRANSIENT NONCOMM	30	Luzerne	APT BLDG WELL	PERMANENT	.
2400357	RICKETTS GLEN HOTEL	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	RTE 118 MAINT BLDG	EMERGENCY	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	EVERGREEN PICNIC 2	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	RT 118 PICNIC 3	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	RT 118 PICNIC 4	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	RT 118 PICNIC 5	ABANDONED	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	LK JEAN PICNIC417 06	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	USGS 417 07 WELL	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	SMALL CG 417 10 WELL	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	LARGE CG 417 11 WELL	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	LARGE CG 417 12 WELL	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	OLD PK OFF 417 13	ABANDONED	0
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	GROUP AREA 417 14	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	BEACH WELL 417 15	PERMANENT	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	MAIN WAT SUPP 417 16	PERMANENT	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	W BOAT LAUNCH 417 20	ABANDONED	0
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	VISITORS CENTER WELL	PERMANENT	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	OLD PK ENTRANCE 19	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	LK JEAN PICNIC417 07	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	BEACH TRAIL 8	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	LKE JEAN PICNIC41709	ABANDONED	.
2400358	RICKETTS GLEN STATE PARK	TRANSIENT NONCOMM	950	Luzerne	MANAGERS RESIDENCE	EMERGENCY	.
2400360	DEER OAK LOUNGE	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400363	GOODS CAMPGROUND	TRANSIENT NONCOMM	35	Luzerne	CAMPGROUND WELL	PERMANENT	.
2400364	NEW BACK MOUNTAIN BOWL	TRANSIENT NONCOMM	150	Luzerne	WELL 1	PERMANENT	0
2400364	NEW BACK MOUNTAIN BOWL	TRANSIENT NONCOMM	150	Luzerne	NEW WELL AUGUST 2010	PERMANENT	.
2400368	DALLAS SCH DIST ADMIN BLDG	NONTRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	.
2400369	LAKE LEHMAN HIGH SCHOOL	NONTRANSIENT NONCOMM	750	Luzerne	WELL 1	PERMANENT	36,000
2400370	LEHMAN JACKSON ELEMENTARY	NONTRANSIENT NONCOMM	875	Luzerne	WELL 1	PERMANENT	28,800
2400374	ROSS ELEMENTARY SCHOOL	NONTRANSIENT NONCOMM	130	Luzerne	WELL 1	PERMANENT	0
2400375	LAKE NOXEN ELEMENTARY SCHOOL	NONTRANSIENT NONCOMM	450	Luzerne	WELL 1	PERMANENT	15,000
2400377	HUNLOCK CREEK TAVERN	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2400379	JIM MIL	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400380	VILLAGE TAVERN	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	10,800
2400384	COUNTRY GENTLEMAN	TRANSIENT NONCOMM	200	Luzerne	WELL	PERMANENT	0
2400388	LAKESIDE PIZZERIA & DELI	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400392	NINOS PIZZA	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2400393	AMERICAN LEGION POST 495	TRANSIENT NONCOMM	50	Luzerne	WELL	ABANDONED	.
2400393	AMERICAN LEGION POST 495	TRANSIENT NONCOMM	50	Luzerne	NEW WELL	PERMANENT	.
2400394	NORTHWEST SENIOR HIGH SCHOOL	NONTRANSIENT NONCOMM	650	Luzerne	WELL 1	PERMANENT	0

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400395	HUNTINGTON MILLS PRIMARY SCH	NONTRANSIENT NONCOMM	301	Luzerne	WELL 1	PERMANENT	60,000
2400396	HUNLOCK CREEK INTERMEDIATE SCH	NONTRANSIENT NONCOMM	409	Luzerne	WELL 1	PERMANENT	57,600
2400401	BIG B DRIVE IN	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400404	MORGAN HILLS GOLF COURSE	TRANSIENT NONCOMM	35	Luzerne	WELL	PERMANENT	0
2400406	TC RILEYS	TRANSIENT NONCOMM	60	Luzerne	WELL 1	PERMANENT	0
2400407	FRANCES SLOCUM STATE PARK	TRANSIENT NONCOMM	2,000	Luzerne	WELL 1	PERMANENT	624,000
2400407	FRANCES SLOCUM STATE PARK	TRANSIENT NONCOMM	2,000	Luzerne	WELL 2	PERMANENT	257,000
2400408	IREM COUNTRY CLUB	TRANSIENT NONCOMM	800	Luzerne	IREM WELL	ABANDONED	0
2400408	IREM COUNTRY CLUB	TRANSIENT NONCOMM	800	Luzerne	DERR WELL	PERMANENT	0
2400409	SHADYSIDE TAVERN	TRANSIENT NONCOMM	30	Luzerne	WELL 1	PERMANENT	0
2400410	BEAUMONT INN	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400413	SPORTSMANS BAR	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400414	SUNFLOWER SPROUTS LEARNING CTR	TRANSIENT NONCOMM	39	Luzerne	WELL 1	PERMANENT	0
2400421	RICH AND CHARLOTTES	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400423	MISERICORDIA UNIVERSITY	NONTRANSIENT NONCOMM	2,400	Luzerne	ADMINSTRATION WELL	PERMANENT	216,000
2400423	MISERICORDIA UNIVERSITY	NONTRANSIENT NONCOMM	2,400	Luzerne	MCAULEY WALSH WELL	PERMANENT	216,000
2400423	MISERICORDIA UNIVERSITY	NONTRANSIENT NONCOMM	2,400	Luzerne	GILDEA HALL	PERMANENT	259,200

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400424	ROLLAWAY	TRANSIENT NONCOMM	125	Luzerne	WELL 1	PERMANENT	0
2400428	CASTLE INN	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400429	COSCIAS HIGHLANDS AT NEWBERRY	TRANSIENT NONCOMM	100	Luzerne	WELL 1	RESERVE	0
2400429	COSCIAS HIGHLANDS AT NEWBERRY	TRANSIENT NONCOMM	100	Luzerne	WELL 2	PERMANENT	.
2400430	NEWBERRY ESTATE HOMEOWNERS	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400431	OVERBROOK PUB & GRILLE	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400434	FARMERS INN	TRANSIENT NONCOMM	35	Luzerne	WELL 1	PERMANENT	0
2400437	LEHMAN GOLF CLUB	TRANSIENT NONCOMM	25	Luzerne	MAIN WELL	PERMANENT	0
2400437	LEHMAN GOLF CLUB	TRANSIENT NONCOMM	25	Luzerne	GOLF COURSE NP WELL	EMERGENCY	0
2400439	SHELLYS DINER	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	.
2400440	OUTPOST INN	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400446	SARAH J DYMOND ELEM SCHOOL	NONTRANSIENT NONCOMM	240	Luzerne	WELL 1	PERMANENT	0
2400447	TWIN OAKS GOLF COURSE	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400449	APPLE TREE HOUSE	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2400452	BEAR CREEK COMM CHARTER SCH	NONTRANSIENT NONCOMM	300	Luzerne	WELL 1	PERMANENT	14,400
2400453	PLEASURE DOME	TRANSIENT NONCOMM	30	Luzerne	WELL 1	PERMANENT	17,280
2400454	KIRBY EPISCOPAL HOUSE	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400456	COSENZA PIZZERIA	TRANSIENT NONCOMM	25	Luzerne	WELL #1	PERMANENT	0
2400458	COUNTRY PUB	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400460	RICE ELEMENTARY SCHOOL	NONTRANSIENT NONCOMM	838	Luzerne	SOURCE A	PERMANENT	28,800
2400461	UNI MART DRUMS	TRANSIENT NONCOMM	550	Luzerne	WELL	PERMANENT	21,600
2400463	ANNE MCLAUGHLINS CHILD CARE	NONTRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	150
2400467	MAS FAMILY RESTAURANT	TRANSIENT NONCOMM	250	Luzerne	WELL 1	PERMANENT	0
2400471	FOUR FELLAS BAR & GRILL	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2400472	CHARLIE WEAVERS BAR AND REST	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2400479	CLEARBROOK LODGE	TRANSIENT NONCOMM	65	Luzerne	WELL 1	PERMANENT	.
2400479	CLEARBROOK LODGE	TRANSIENT NONCOMM	65	Luzerne	WELL 2	PERMANENT	.
2400480	L & P BERWICK	NONTRANSIENT NONCOMM	63	Luzerne	WELL 1 LEFT SIDE	PERMANENT	14,400
2400480	L & P BERWICK	NONTRANSIENT NONCOMM	63	Luzerne	WELL 2 REAR BY TANKS	PERMANENT	14,400
2400485	ECONO LODGE	TRANSIENT NONCOMM	35	Luzerne	BLDG A WELL	PERMANENT	0
2400485	ECONO LODGE	TRANSIENT NONCOMM	35	Luzerne	BLDG B WELL	PERMANENT	0
2400501	CAMP ORCHARD HILL	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	0
2400501	CAMP ORCHARD HILL	TRANSIENT NONCOMM	100	Luzerne	SOURCE 002	PERMANENT	.
2400502	BARBACCI GROVE	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400517	HUNTSVILLE CHRISTIAN CHURCH	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	0
2400521	PATTERSON GROVE CAMPMEETING	TRANSIENT NONCOMM	300	Luzerne	BOARDING HOUSE WELL1	PERMANENT	.
2400521	PATTERSON GROVE CAMPMEETING	TRANSIENT NONCOMM	300	Luzerne	TABERNACLE WELL2	PERMANENT	.
2400521	PATTERSON GROVE CAMPMEETING	TRANSIENT NONCOMM	300	Luzerne	COURTYARD WELL3	PERMANENT	.
2400523	NEW HIDDEN LAKE CAMPGROUND	TRANSIENT NONCOMM	150	Luzerne	WELL	PERMANENT	.
2400524	CALVARY BIBLE CHAPEL	NONTRANSIENT NONCOMM	80	Luzerne	WELL	PERMANENT	.
2400530	BEAR CREEK CAMP	TRANSIENT NONCOMM	235	Luzerne	MAIN OFFICE WELL	PERMANENT	0
2400530	BEAR CREEK CAMP	TRANSIENT NONCOMM	235	Luzerne	NORTH SITE WELL	PERMANENT	0
2400530	BEAR CREEK CAMP	TRANSIENT NONCOMM	235	Luzerne	EAST SITE WELL	RESERVE	0
2400532	WILKES BARRE TWP SETTLEMENT CP	TRANSIENT NONCOMM	25	Luzerne	WELL #1	PERMANENT	0
2400537	SANDY VALLEY CAMPGROUND	TRANSIENT NONCOMM	35	Luzerne	WELL 1	PERMANENT	.
2400537	SANDY VALLEY CAMPGROUND	TRANSIENT NONCOMM	35	Luzerne	WELL 2	SEASONAL	.
2400538	ST PAULS UNITED METHODIST CH	TRANSIENT NONCOMM	60	Luzerne	WELL	PERMANENT	.
2400543	MOYERS GROVE CAMPGROUND	TRANSIENT NONCOMM	165	Luzerne	WELL	PERMANENT	0
2400546	LOOKOUT HOUSE	TRANSIENT NONCOMM	25	Luzerne	WELL 1A	PERMANENT	7,200
2400546	LOOKOUT HOUSE	TRANSIENT NONCOMM	25	Luzerne	WELL 2B	ABANDONED	10,080
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 1	PERMANENT	288,000

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 3	PERMANENT	170,000
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 5	RESERVE	72,000
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 6	ABANDONED	72,000
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 7	PERMANENT	288,000
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 8	PERMANENT	266,400
2400806	HUMBOLDT INDUSTRIAL PARK	NONTRANSIENT NONCOMM	8,000	Luzerne	WELL 9	PERMANENT	216,000
2400813	EDGEWOOD PINES GOLF CLUB	TRANSIENT NONCOMM	150	Luzerne	WELL	PERMANENT	43,200
2400823	TOMS KITCHEN	TRANSIENT NONCOMM	225	Luzerne	WELL	PERMANENT	0
2400824	BEAR MART 1	TRANSIENT NONCOMM	400	Luzerne	WELL #1	ABANDONED	17,280
2400824	BEAR MART 1	TRANSIENT NONCOMM	400	Luzerne	WELL # 2	PERMANENT	43,200
2400825	SHINDIG INN	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	0
2400828	SAFETY REST AREA SITE #39	TRANSIENT NONCOMM	860	Luzerne	WELL	PERMANENT	28,800
2400829	SAFETY REST AREA SITE #53	TRANSIENT NONCOMM	840	Luzerne	WELL	PERMANENT	36,000
2400830	SAFETY REST AREA SITE #54	TRANSIENT NONCOMM	840	Luzerne	WELL	PERMANENT	14,400
2400835	JCC DAY CAMP & HOLIDAY HOUSE	TRANSIENT NONCOMM	250	Luzerne	MAIN WELL HOUSE WELL	PERMANENT	0
2400835	JCC DAY CAMP & HOLIDAY HOUSE	TRANSIENT NONCOMM	250	Luzerne	DOGHOUSE WELL	PERMANENT	0
2400835	JCC DAY CAMP & HOLIDAY HOUSE	TRANSIENT NONCOMM	250	Luzerne	HOLIDAY HOUSE WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400836	JOHN HEINZ REHAB	TRANSIENT NONCOMM	40	Luzerne	WELL	PERMANENT	0
2400840	RED ROOSTER	TRANSIENT NONCOMM	80	Luzerne	WELL 1	PERMANENT	0
2400841	TECH PACKAGING	NONTRANSIENT NONCOMM	120	Luzerne	WELL 1	PERMANENT	72,000
2400848	GOULDS SUPERMARKET	TRANSIENT NONCOMM	500	Luzerne	WELL 1	PERMANENT	0
2400848	GOULDS SUPERMARKET	TRANSIENT NONCOMM	500	Luzerne	SOURCE 002	PERMANENT	60
2400851	BURGER KING RESTAURANT	TRANSIENT NONCOMM	900	Luzerne	WELL 1	PERMANENT	0
2400852	HAZLE TOWNSHIP COMMUNITY PARK	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400853	UNIMART 94338	TRANSIENT NONCOMM	700	Luzerne	NEW WELL	PERMANENT	0
2400858	CARMENS COUNTRY INN	TRANSIENT NONCOMM	200	Luzerne	WELL	PERMANENT	28,800
2400859	STEWARTS DRIVE IN	TRANSIENT NONCOMM	500	Luzerne	WELL	PERMANENT	0
2400859	STEWARTS DRIVE IN	TRANSIENT NONCOMM	500	Luzerne	COOKIES CAFE WELL	RESERVE	.
2400860	MILLERS BAR	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400862	COUNTRYSIDE QUIK MART	TRANSIENT NONCOMM	50	Luzerne	WELL #1	PERMANENT	0
2400868	HARVEYS LAKE PFC ACCESS AREA	TRANSIENT NONCOMM	200	Luzerne	RESTROOM WELL 1	PERMANENT	72,000
2400870	CLEARBROOK MANOR	NONTRANSIENT NONCOMM	86	Luzerne	WELL #2	PERMANENT	14,400
2400870	CLEARBROOK MANOR	NONTRANSIENT NONCOMM	86	Luzerne	WELL #3	ABANDONED	5,760
2400870	CLEARBROOK MANOR	NONTRANSIENT NONCOMM	86	Luzerne	WELL #1	ABANDONED	11,520

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400870	CLEARBROOK MANOR	NONTRANSIENT NONCOMM	86	Luzerne	NEW DETOX BLDG WELL	PERMANENT	.
2400871	DALLAS SHOPPING CENTER	NONTRANSIENT NONCOMM	350	Luzerne	WELL 1	PERMANENT	0
2400872	VILLA ROMA	TRANSIENT NONCOMM	100	Luzerne	WELL	PERMANENT	0
2400883	HARVEYS LAKE YACHT CLUB	TRANSIENT NONCOMM	25	Luzerne	WELL 1 GRASS	PERMANENT	0
2400883	HARVEYS LAKE YACHT CLUB	TRANSIENT NONCOMM	25	Luzerne	SOURCE 002	ABANDONED	.
2400886	ZOLAS LAMP POST	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400887	GUS GENETTI HOTEL & RESTAURANT	NONTRANSIENT NONCOMM	350	Luzerne	WELL A	PERMANENT	.
2400887	GUS GENETTI HOTEL & RESTAURANT	NONTRANSIENT NONCOMM	350	Luzerne	WELL B	PERMANENT	.
2400887	GUS GENETTI HOTEL & RESTAURANT	NONTRANSIENT NONCOMM	350	Luzerne	WELL C	ABANDONED	.
2400891	BROTHERS SHIMS	TRANSIENT NONCOMM	25	Luzerne	SPRING #1	ABANDONED	0
2400891	BROTHERS SHIMS	TRANSIENT NONCOMM	25	Luzerne	SPRING #2	ABANDONED	0
2400891	BROTHERS SHIMS	TRANSIENT NONCOMM	25	Luzerne	SPRING #3	ABANDONED	0
2400891	BROTHERS SHIMS	TRANSIENT NONCOMM	25	Luzerne	SPRING #4	ABANDONED	0
2400891	BROTHERS SHIMS	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2400894	HILLSIDE FARMS DAIRY	TRANSIENT NONCOMM	200	Luzerne	PASTURE WELL	PERMANENT	16,000
2400897	ROCK GLEN PARK & POOL COMPLEX	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400898	CAMP KRESGE ON BEAVER LAKE	TRANSIENT NONCOMM	40	Luzerne	WELL 1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400898	CAMP KRESGE ON BEAVER LAKE	TRANSIENT NONCOMM	40	Luzerne	WELL 002	PERMANENT	.
2400899	MEATING HOUSE	TRANSIENT NONCOMM	35	Luzerne	WELL	PERMANENT	0
2400901	UNI MART MOUNTAINTOP	TRANSIENT NONCOMM	500	Luzerne	WELL	PERMANENT	0
2400903	DYMONDS FARM MARKET	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	0
2400906	VALLEY TENNIS & SWIM CLUB	TRANSIENT NONCOMM	200	Luzerne	WELL 1	PERMANENT	0
2400910	TURKEY HILL STORE #180	TRANSIENT NONCOMM	350	Luzerne	WELL 1	PERMANENT	0
2400911	PEN MART PIKES CREEK	TRANSIENT NONCOMM	150	Luzerne	WELL 1	PERMANENT	.
2400919	HAZLE PARK PACKING	NONTRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2400919	HAZLE PARK PACKING	NONTRANSIENT NONCOMM	50	Luzerne	HCA	RESERVE	.
2400920	J L MARKET	TRANSIENT NONCOMM	115	Luzerne	WELL	PERMANENT	0
2400921	LOOKOUT MOTOR LODGE	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	0
2400921	LOOKOUT MOTOR LODGE	TRANSIENT NONCOMM	25	Luzerne	WELL 2	PERMANENT	.
2400922	PANTRY QUIK	TRANSIENT NONCOMM	291	Luzerne	WELL 1	PERMANENT	0
2400925	RITTENHOUSE PLACE WATER SYS	TRANSIENT NONCOMM	279	Luzerne	WELL 1	PERMANENT	0
2400926	PEN MART SUBWAY	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	.
2400930	GENERAL JACKSONS DELI	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	7,000
2400933	RED ROCK GENERAL STORE	TRANSIENT NONCOMM	50	Luzerne	WELL #1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400934	PETRO QUICK	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	0
2400935	AMERICAS BEST VALUE INN	TRANSIENT NONCOMM	35	Luzerne	WELL 1	PERMANENT	129,600
2400935	AMERICAS BEST VALUE INN	TRANSIENT NONCOMM	35	Luzerne	WELL 2	PERMANENT	129,600
2400938	PPL WEST BUILDING	TRANSIENT NONCOMM	35	Luzerne	WELL EOF	PERMANENT	43,200
2400939	CEASE TERRACE WATER ASSOC	TRANSIENT NONCOMM	40	Luzerne	MAIN WELL 1	PERMANENT	0
2400939	CEASE TERRACE WATER ASSOC	TRANSIENT NONCOMM	40	Luzerne	EMERGENCY WELL 2	EMERGENCY	.
2400940	COUNCIL CUP CAMPGROUND	TRANSIENT NONCOMM	25	Luzerne	SHOWER HOUSE 2 WELL1	PERMANENT	14,400
2400940	COUNCIL CUP CAMPGROUND	TRANSIENT NONCOMM	25	Luzerne	SHOWER HOUSE 3 WELL2	PERMANENT	.
2400941	PILOT TRAVEL CENTER #298	TRANSIENT NONCOMM	400	Luzerne	WELL	PERMANENT	144,000
2400946	COOKS VARIETY STORE	TRANSIENT NONCOMM	75	Luzerne	WELL	PERMANENT	5,000
2400947	MARINAS 309 DINER	TRANSIENT NONCOMM	30	Luzerne	WELL #1	PERMANENT	1,000
2400948	ANDYS MINI MARKET	TRANSIENT NONCOMM	160	Luzerne	WELL	PERMANENT	2,880
2400949	GEORGE ERNST MEMORIAL POOL	TRANSIENT NONCOMM	150	Luzerne	WELL	PERMANENT	0
2400953	COOLBAUGHS FOOD MART	TRANSIENT NONCOMM	40	Luzerne	WELL #1	PERMANENT	0
2400954	MOUNTAIN FRESH SUPERMARKET	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	36,000
2400956	SITKOS BARN	TRANSIENT NONCOMM	60	Luzerne	WELL #1	PERMANENT	3,000
2400957	JACKIES RESTAURANT AND DELI	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	36,000

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400958	HUNTSVILLE GOLF CLUB	TRANSIENT NONCOMM	400	Luzerne	CLUBHOUSE WELL #2	PERMANENT	43,000
2400959	MARYS RESTAURANT	TRANSIENT NONCOMM	108	Luzerne	WELL 1	PERMANENT	144,000
2400960	REDS SUBS & PIZZA	TRANSIENT NONCOMM	100	Luzerne	WELL 1	PERMANENT	.
2400961	LUZERNE COUNTY FAIRGROUNDS	TRANSIENT NONCOMM	1,000	Luzerne	WELL	PERMANENT	0
2400962	RODS DELI	TRANSIENT NONCOMM	45	Luzerne	WELL	PERMANENT	0
2400963	GERRIES FITNESS CENTER	TRANSIENT NONCOMM	100	Luzerne	WELL	PERMANENT	43,200
2400964	SUGARLOAF TWP MUNIC BUILDING	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	50,400
2400967	CHECKERBOARD INN	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	72,000
2400970	SONRAE MARKET	TRANSIENT NONCOMM	30	Luzerne	WELL	PERMANENT	.
2400971	RAINBOW HILL SCHOOL	TRANSIENT NONCOMM	35	Luzerne	WELL	PERMANENT	1,100
2400973	FUEL ON	TRANSIENT NONCOMM	150	Luzerne	WELL 1	PERMANENT	.
2400974	TURNPIKE MOBIL	TRANSIENT NONCOMM	50	Luzerne	DRILLED WELL	PERMANENT	.
2400975	BLUE RIDGE PLAZA	TRANSIENT NONCOMM	100	Luzerne	WELL	PERMANENT	28,800
2400976	PAMELAS	TRANSIENT NONCOMM	60	Luzerne	DRILLED WELL	PERMANENT	.
2400979	BALIETS COUNTRY CORNERS STORE	TRANSIENT NONCOMM	400	Luzerne	WELL	PERMANENT	28,800
2400982	BEAR CREEK CAFE	TRANSIENT NONCOMM	25	Luzerne	WELL #1	PERMANENT	30
2400983	SMITHS MKT	TRANSIENT NONCOMM	30	Luzerne	WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2400985	PUMP N PANTRY PIKES CREEK	TRANSIENT NONCOMM	250	Luzerne	WELL 1	PERMANENT	.
2400986	RANCH WAGON PIKES CREEK	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2400989	GROWING YEARS CHILD CARE CTR	NONTRANSIENT NONCOMM	83	Luzerne	WELL 1	PERMANENT	21,600
2400991	BLUE RIDGE TRAIL GOLF CLUB	TRANSIENT NONCOMM	100	Luzerne	DRILLED WELL	PERMANENT	.
2400994	PPL SUSQUEHANNA SES	NONTRANSIENT NONCOMM	2,200	Luzerne	WELL 1 TW#2	PERMANENT	216,000
2400994	PPL SUSQUEHANNA SES	NONTRANSIENT NONCOMM	2,200	Luzerne	WELL 2 TW#1	PERMANENT	72,000
2400995	PPL RIVERLANDS RECREATION CNTR	TRANSIENT NONCOMM	504	Luzerne	WELL	PERMANENT	43,200
2400999	PPL ENERGY INFORMATION CENTER	TRANSIENT NONCOMM	50	Luzerne	WELL	PERMANENT	0
2401000	TWIST N SHAKE	TRANSIENT NONCOMM	100	Luzerne	THOMAS HOUSE WELL	PERMANENT	.
2401001	BLUE RIDGE PIZZA AND SUBS	TRANSIENT NONCOMM	50	Luzerne	WELL #1	PERMANENT	.
2401002	BEAR MART 2 EXXON	TRANSIENT NONCOMM	400	Luzerne	WELL # 1	PERMANENT	.
2401002	BEAR MART 2 EXXON	TRANSIENT NONCOMM	400	Luzerne	WELL# 2	ABANDONED	.
2401003	J & N MINI MART	TRANSIENT NONCOMM	500	Luzerne	WELL	PERMANENT	25,920
2401007	DAVES CATERING PIKES CREEK BEV	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401009	FOUR CORNERS MARKET & DELI	TRANSIENT NONCOMM	26	Luzerne	SOURCE 001	PERMANENT	.
2401010	NEW DRUMS ELEMENTARY SCHOOL	NONTRANSIENT NONCOMM	400	Luzerne	NORTH WELL	PERMANENT	86,400
2401010	NEW DRUMS ELEMENTARY SCHOOL	NONTRANSIENT NONCOMM	400	Luzerne	SOUTH WELL	PERMANENT	36,000

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2401011	WENDYS RESTAURANT DRUMS	TRANSIENT NONCOMM	1,000	Luzerne	WELL	PERMANENT	17,280
2401020	VESUVIOS PIZZERIA	TRANSIENT NONCOMM	100	Luzerne	WELL	PERMANENT	.
2401021	CAN DO CORPORATE CENTER	COMMUNITY	930	Luzerne	WELL	PERMANENT	432,000
2401022	THE ICE HOUSE PUB	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401023	STONE MEADOWS GOLF COURSE	TRANSIENT NONCOMM	200	Luzerne	SOURCE 001	PERMANENT	.
2401025	BIG TEN SUBS AND PIZZA	TRANSIENT NONCOMM	50	Luzerne	WELL 1	PERMANENT	.
2401029	VFW 6615	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401030	ITS A LIFESAVER	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401032	ROCK RECREATION CENTER	TRANSIENT NONCOMM	71	Luzerne	WELL	PERMANENT	.
2401034	APPLEWOOD GOLF COURSE	TRANSIENT NONCOMM	50	Luzerne	SOURCE 001	PERMANENT	.
2401035	HOT DIGGITTY DOG	TRANSIENT NONCOMM	25	Luzerne	SOURCE 001	PERMANENT	.
2401038	ST PAULS LUTHERAN CHURCH	TRANSIENT NONCOMM	200	Luzerne	SOURCE 001	PERMANENT	.
2401039	COUNTRY PLACE RETREAT	TRANSIENT NONCOMM	25	Luzerne	WELL	RESERVE	.
2401039	COUNTRY PLACE RETREAT	TRANSIENT NONCOMM	25	Luzerne	SOURCE 002	PERMANENT	.
2401040	LAKE BISTRO	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401042	VALLEY SUBS AND DELI	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401047	NESCOPECK STATE PARK	TRANSIENT NONCOMM	50	Luzerne	SOURCE 001	PERMANENT	.
2401051	SORBERS CATERING	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2401052	MOMMY DOOZ INC	TRANSIENT NONCOMM	25	Luzerne	DAVIS RESIDENCE WELL	PERMANENT	.
2401053	THE KRAZY KONE	TRANSIENT NONCOMM	25	Luzerne	HOUSE WELL	PERMANENT	.
2401055	SWEET VALLEY DO IT BEST	TRANSIENT NONCOMM	25	Luzerne	REAR OF STORE	PERMANENT	.
2401062	PARADISE CAMPGROUND	TRANSIENT NONCOMM	25	Luzerne	SOURCE 001	PERMANENT	.
2401065	SHADY RILL FARM & BAKERY	TRANSIENT NONCOMM	25	Luzerne	HOUSE WELL	PERMANENT	.
2401066	WHEELS BAR AND GRILL	TRANSIENT NONCOMM	25	Luzerne	WELL #1	PERMANENT	.
2401067	HOLY PROTECTION MONASTERY	TRANSIENT NONCOMM	25	Luzerne	SOURCE 001	PERMANENT	.
2401068	LIBERTY EXXON	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401070	COOKIES CAFE	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401070	COOKIES CAFE	TRANSIENT NONCOMM	25	Luzerne	SOURCE 002	RESERVE	.
2401071	THE BENJAMIN HARVEY INN	TRANSIENT NONCOMM	25	Luzerne	SOURCE 001	PERMANENT	.
2401072	151 MEMORIAL CONVENIENCE INC	TRANSIENT NONCOMM	25	Luzerne	SOURCE 001	PERMANENT	.
2401074	WHITETAIL PRESERVE	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401076	COUNTRY CHARM DAY CARE	NONTRANSIENT NONCOMM	98	Luzerne	WELL 1	PERMANENT	.
2401077	BOSSMANS BAR B Q	TRANSIENT NONCOMM	25	Luzerne	SOURCE 001	PERMANENT	.
2401080	BROYANS FARM MARKET & COUNTRY	TRANSIENT NONCOMM	25	Luzerne	OUTSIDE REAR WELL	PERMANENT	.
2401081	THE AMISH PANTRY	TRANSIENT NONCOMM	25	Luzerne	WELL 1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2401082	THE BELLHOUSE CAFE	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401084	WEE CARE FOUNDATIONS	TRANSIENT NONCOMM	25	Luzerne	DAY CARE WELL	PERMANENT	.
2401085	239 LUNCH	TRANSIENT NONCOMM	25	Luzerne	SHICK JOES WELL	PERMANENT	.
2401087	WESTERN INTERNATIONAL GAS	NONTRANSIENT NONCOMM	30	Luzerne	WAREHOUSE WELL	PERMANENT	.
2401088	TRAVEL TWIST	TRANSIENT NONCOMM	25	Luzerne	GARAGE WELL	PERMANENT	.
2401090	LADNERS ACRES	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401091	GINOS	TRANSIENT NONCOMM	25	Luzerne	WELL	PERMANENT	.
2401092	HIGH POINT BAPTIST CHURCH	TRANSIENT NONCOMM	50	Luzerne	WELL 001	PERMANENT	.
2406006	GLEN SUMMIT SPRINGS WATER	BOTTLED WATER	5,500	Luzerne	SPRING 1	PERMANENT	0
2406006	GLEN SUMMIT SPRINGS WATER	BOTTLED WATER	5,500	Luzerne	SPRING 2	EMERGENCY	0
2406006	GLEN SUMMIT SPRINGS WATER	BOTTLED WATER	5,500	Luzerne	SPRING 3	PERMANENT	0
2406006	GLEN SUMMIT SPRINGS WATER	BOTTLED WATER	5,500	Luzerne	BOREHOLE 1	PERMANENT	.
2406035	THREE SPRINGS BOTTLED WATER	BOTTLED WATER	3,500	Luzerne	ARTESIAN WELL	PERMANENT	30,000
2406258	MONROE BOTTLING CO	BOTTLED WATER	3,500	Luzerne	WELL 1	PERMANENT	17,280
2406272	SUTTON SPRINGS	BOTTLED WATER	555	Luzerne	SPRING	PERMANENT	25,000
2406498	NATURES WAY SPRINGS	BULK WATER HAULER	5,000	Luzerne	BOREHOLE 1	PERMANENT	.
2406524	HAZLETON AREA WATER CO	BULK WATER HAULER	25	Luzerne	WELL 001	PERMANENT	.
2406524	HAZLETON AREA WATER CO	BULK WATER HAULER	25	Luzerne	WELL 004	PERMANENT	.
2406545	WHITE HAVEN MOUNTAIN SPRINGS	BULK WATER HAULER	25	Luzerne	WELL 1	PERMANENT	61,920
2406545	WHITE HAVEN MOUNTAIN SPRINGS	BULK WATER HAULER	25	Luzerne	WELL 2	PERMANENT	77,760
2408007	HCA DELANO PARK PLACE	COMMUNITY	1,017	Luzerne	DELANO WELL 1	PERMANENT	273,600

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
2408007	HCA DELANO PARK PLACE	COMMUNITY	1,017	Luzerne	PARK PLACE WELL 1	PERMANENT	280,000
2408007	HCA DELANO PARK PLACE	COMMUNITY	1,017	Luzerne	PARK PLACE WELL 2	PERMANENT	129,700
2408011	HCA TOMHICKEN	COMMUNITY	123	Luzerne	WELL 1	RESERVE	36,000
2408011	HCA TOMHICKEN	COMMUNITY	123	Luzerne	WELL #2	PERMANENT	60
2408012	HCA DERRINGER FERN GLEN	COMMUNITY	276	Luzerne	WELL 1	PERMANENT	.
2408012	HCA DERRINGER FERN GLEN	COMMUNITY	276	Luzerne	WELL 2	PERMANENT	38,880
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	UPPER HOFFMAN SPRING	ABANDONED	0
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	LOWER HOFFMAN SPRING	ABANDONED	0
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #3	ABANDONED	50,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #4	ABANDONED	50,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #5	PERMANENT	22,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #6	PERMANENT	180,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #7	PERMANENT	65,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #8	PERMANENT	72,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	WELL #9	PERMANENT	72,000
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	GENSEL SPRING	ABANDONED	0
4190011	CATAWISSA MUNICIPAL WATER AUTH	COMMUNITY	1,644	Columbia	CATAWISSA CREEK	RESERVE	.
4190012	ORANGEVILLE MUNICIPAL WATER AU	COMMUNITY	480	Columbia	DRILLED WELL #1	PERMANENT	40,000
4190012	ORANGEVILLE MUNICIPAL WATER AU	COMMUNITY	480	Columbia	SPRING AT RESERVOIR	ABANDONED	0
4190013	PA AMERICAN WATER BERWICK	COMMUNITY	16,000	Columbia	WELL #1	PERMANENT	1,512,000
4190013	PA AMERICAN WATER BERWICK	COMMUNITY	16,000	Columbia	WELL #2	PERMANENT	1,512,000

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190013	PA AMERICAN WATER BERWICK	COMMUNITY	16,000	Columbia	WELL #3	PERMANENT	1,512,000
4190013	PA AMERICAN WATER BERWICK	COMMUNITY	16,000	Columbia	WELL #4	PERMANENT	1,771,000
4190015	WONDERVIEW WATER CO	COMMUNITY	350	Columbia	WELL 1	ABANDONED	0
4190015	WONDERVIEW WATER CO	COMMUNITY	350	Columbia	WELL 2-SKI LODGE	PERMANENT	20,000
4190015	WONDERVIEW WATER CO	COMMUNITY	350	Columbia	WELL 2A	PERMANENT	18,000
4190015	WONDERVIEW WATER CO	COMMUNITY	350	Columbia	WELL 3	PERMANENT	23,000
4190015	WONDERVIEW WATER CO	COMMUNITY	350	Columbia	WELL 4	PERMANENT	25,900
4190016	MIFFLIN TWP WATER AUTHORITY	COMMUNITY	900	Columbia	WELL #1	RESERVE	0
4190016	MIFFLIN TWP WATER AUTHORITY	COMMUNITY	900	Columbia	WELL #2	RESERVE	0
4190016	MIFFLIN TWP WATER AUTHORITY	COMMUNITY	900	Columbia	WELL #3	PERMANENT	430,000
4190019	BROOKSIDE VILLAGE MHP	COMMUNITY	475	Columbia	WELL 1	PERMANENT	72,000
4190019	BROOKSIDE VILLAGE MHP	COMMUNITY	475	Columbia	WELL 2	PERMANENT	16,000
4190019	BROOKSIDE VILLAGE MHP	COMMUNITY	475	Columbia	WELL 3	PERMANENT	14,000
4190020	STONY BROOK CIRCLE MHP	COMMUNITY	400	Columbia	WELL 1	RESERVE	47,000
4190020	STONY BROOK CIRCLE MHP	COMMUNITY	400	Columbia	WELL 3	PERMANENT	36,000
4190021	MOUNTAIN VIEW ESTATES	COMMUNITY	80	Columbia	WELL #1	PERMANENT	0
4190021	MOUNTAIN VIEW ESTATES	COMMUNITY	80	Columbia	WELL #2	PERMANENT	0
4190021	MOUNTAIN VIEW ESTATES	COMMUNITY	80	Columbia	WELL 3	PERMANENT	15
4190026	BALANCED CARE AT BLOOMSBURG II	COMMUNITY	60	Columbia	WELL 1	PERMANENT	54,720
4190285	ORANGEVILLE N & R CENTER	COMMUNITY	118	Columbia	WELL 2	PERMANENT	37,000
4190286	HELLERS MOBILE HOME PARK	COMMUNITY	47	Columbia	WELL LOWER	PERMANENT	14,000
4190286	HELLERS MOBILE HOME PARK	COMMUNITY	47	Columbia	WELL UPPER	PERMANENT	16,000
4190289	HERITAGE HILLSIDE ESTATES	COMMUNITY	90	Columbia	WELL 1	PERMANENT	34,000
4190296	PLEASANT VIEW ESTATES	COMMUNITY	390	Columbia	WELL 1	PERMANENT	16,000
4190296	PLEASANT VIEW ESTATES	COMMUNITY	390	Columbia	WELL 2	PERMANENT	34,000
4190296	PLEASANT VIEW ESTATES	COMMUNITY	390	Columbia	WELL 3	PERMANENT	11,000
4190298	COUNTRY TERRACE ESTATES	COMMUNITY	61	Columbia	UPPER WELL 2	PERMANENT	25,920
4190300	CENTRAL PARK HOTEL	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190303	CASTAWAYZ RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190306	WHISPERING PINES CAMPING EST	TRANSIENT NONCOMM	55	Columbia	WELL 1	PERMANENT	.
4190309	DIGGERS DIVERSION	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190311	CREEKSIDE FAMILY RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190312	COLONEL KIRKS AUCTION GALLERY	TRANSIENT NONCOMM	25	Columbia	WELL #1	PERMANENT	.
4190313	STREVIGS RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190314	THE INN UNDER	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190316	THE STANLEY CENTER	NONTRANSIENT NONCOMM	70	Columbia	WELL #1	PERMANENT	.
4190317	DEIHLS CAMPING RESORT	TRANSIENT NONCOMM	100	Columbia	WELL 1 - OFFICE	PERMANENT	0
4190317	DEIHLS CAMPING RESORT	TRANSIENT NONCOMM	100	Columbia	WELL 2 - CAMPGROUND	SEASONAL	0
4190317	DEIHLS CAMPING RESORT	TRANSIENT NONCOMM	100	Columbia	WELL 3 - TRAILER	RESERVE	0
4190318	HERITAGE HOUSE FAMILY REST	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190320	STATE HILL RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190325	SCOREBOARD SPORTS TAVERN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	0
4190326	WONDER YEARS PRESCHOOL	NONTRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	0
4190327	COBBLESTONE INN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190333	TENNY TOWN MOTEL	TRANSIENT NONCOMM	40	Columbia	WELL 1	PERMANENT	.
4190334	KEMLERS RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	0

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190336	TAPS SPORTS BAR & GRILL	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	0
4190341	FRANS DAIRY BAR	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190345	BASSETT'S	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190349	MAYS DRIVE IN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190351	STONE CASTLE MOTEL	TRANSIENT NONCOMM	80	Columbia	WELL 1	PERMANENT	.
4190352	CATAWISSA AMERICAN LEGION	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190353	TOMS FAMILY RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190355	LAKE GLORY CAMPSITES	TRANSIENT NONCOMM	80	Columbia	LG 21	PERMANENT	.
4190355	LAKE GLORY CAMPSITES	TRANSIENT NONCOMM	80	Columbia	LG25	PERMANENT	.
4190360	SOUTHERN COLUMBIA AREA SCHOOL	NONTRANSIENT NONCOMM	1,650	Columbia	WELL 1 BUS BARN	RESERVE	0
4190360	SOUTHERN COLUMBIA AREA SCHOOL	NONTRANSIENT NONCOMM	1,650	Columbia	WELL 2 NEW WELL	PERMANENT	.
4190360	SOUTHERN COLUMBIA AREA SCHOOL	NONTRANSIENT NONCOMM	1,650	Columbia	WELL 3 ELEM. BUILD.	PERMANENT	.
4190360	SOUTHERN COLUMBIA AREA SCHOOL	NONTRANSIENT NONCOMM	1,650	Columbia	WELL 4 HIGH SCH. BLD	RESERVE	.
4190361	J & D CREE MEE FREEZE	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190364	SCOTCH VALLEY RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190368	LIGHTSTREET HOTEL	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190370	DEL MONTE CORPORATION	NONTRANSIENT NONCOMM	600	Columbia	WELL 2	ABANDONED	120,000

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190370	DEL MONTE CORPORATION	NONTRANSIENT NONCOMM	600	Columbia	WELL 3	PERMANENT	180,000
4190370	DEL MONTE CORPORATION	NONTRANSIENT NONCOMM	600	Columbia	WELL 5	ABANDONED	300,000
4190370	DEL MONTE CORPORATION	NONTRANSIENT NONCOMM	600	Columbia	WELL 6	PERMANENT	0
4190370	DEL MONTE CORPORATION	NONTRANSIENT NONCOMM	600	Columbia	WELL PW 7	PERMANENT	.
4190372	ROLLING PINES GOLF COURSE	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190377	JERSEYTOWN TAVERN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190379	TURNERS HIGH VIEW CAMPING AREA	TRANSIENT NONCOMM	92	Columbia	WELL 1, OFFICE	PERMANENT	.
4190379	TURNERS HIGH VIEW CAMPING AREA	TRANSIENT NONCOMM	92	Columbia	WELL 2, SERVICE BLDG	PERMANENT	.
4190381	CAMP LAVIGNE	TRANSIENT NONCOMM	150	Columbia	WELL 1, WISE LODGE	PERMANENT	.
4190381	CAMP LAVIGNE	TRANSIENT NONCOMM	150	Columbia	WELL 2, KITCHEN	SEASONAL	.
4190381	CAMP LAVIGNE	TRANSIENT NONCOMM	150	Columbia	WELL 3, POOL	SEASONAL	.
4190383	GRASSMERE PARK CAMPGROUND	TRANSIENT NONCOMM	70	Columbia	WELL 1-SERVICE BLDG	PERMANENT	.
4190383	GRASSMERE PARK CAMPGROUND	TRANSIENT NONCOMM	70	Columbia	WELL 2-CAMPGROUND	PERMANENT	.
4190384	IDEAL PARK	TRANSIENT NONCOMM	100	Columbia	WELL B	PERMANENT	.
4190384	IDEAL PARK	TRANSIENT NONCOMM	100	Columbia	WELL D	PERMANENT	.
4190384	IDEAL PARK	TRANSIENT NONCOMM	100	Columbia	WELL A	PERMANENT	.
4190384	IDEAL PARK	TRANSIENT NONCOMM	100	Columbia	WELL C	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190392	THE VILLAGE INN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190398	KNOEBELS GROVE PARK	NONTRANSIENT NONCOMM	4,000	Columbia	CG2	PERMANENT	.
4190398	KNOEBELS GROVE PARK	NONTRANSIENT NONCOMM	4,000	Columbia	CU16	PERMANENT	.
4190398	KNOEBELS GROVE PARK	NONTRANSIENT NONCOMM	4,000	Columbia	AF-23	ABANDONED	.
4190398	KNOEBELS GROVE PARK	NONTRANSIENT NONCOMM	4,000	Columbia	KC 72	PERMANENT	.
4190801	BENTON VFW	TRANSIENT NONCOMM	25	Columbia	WELL	ABANDONED	40
4190801	BENTON VFW	TRANSIENT NONCOMM	25	Columbia	WELL 2	PERMANENT	.
4190802	PONDUCE FARMS	TRANSIENT NONCOMM	25	Columbia	WELL #1	PERMANENT	.
4190803	PENNDOT-SITE 37 MODERN REST AR	TRANSIENT NONCOMM	800	Columbia	WELL 1	PERMANENT	.
4190804	PENNDOT-SITE 38 MODERN REST AR	TRANSIENT NONCOMM	800	Columbia	WELL 1	PERMANENT	.
4190805	INDIAN HEAD CAMPGROUND	TRANSIENT NONCOMM	25	Columbia	WELL	PERMANENT	30
4190808	SEASONS DADS	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190812	GREENWOOD FRIENDS SCHOOL	NONTRANSIENT NONCOMM	100	Columbia	WELL 1	PERMANENT	0
4190815	J & D CAMPGROUND	TRANSIENT NONCOMM	250	Columbia	WELL 1	PERMANENT	.
4190815	J & D CAMPGROUND	TRANSIENT NONCOMM	250	Columbia	WELL 2	SEASONAL	.
4190815	J & D CAMPGROUND	TRANSIENT NONCOMM	250	Columbia	WELL 3	SEASONAL	.
4190815	J & D CAMPGROUND	TRANSIENT NONCOMM	250	Columbia	WELL 4	SEASONAL	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190815	J & D CAMPGROUND	TRANSIENT NONCOMM	250	Columbia	WELL 5	SEASONAL	.
4190815	J & D CAMPGROUND	TRANSIENT NONCOMM	250	Columbia	WELL 6	SEASONAL	.
4190816	THE SURGERY CENTER	TRANSIENT NONCOMM	25	Columbia	WELL #1	PERMANENT	.
4190817	JDS INN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190820	CAMP EPACHISECA	TRANSIENT NONCOMM	50	Columbia	WELL 1-KITCHEN	PERMANENT	.
4190820	CAMP EPACHISECA	TRANSIENT NONCOMM	50	Columbia	WELL 2 BOYS DORM	PERMANENT	.
4190821	CAMP LOUISE	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190821	CAMP LOUISE	TRANSIENT NONCOMM	25	Columbia	BIRCHES WELL	PERMANENT	.
4190822	BRIAR CREEK PARK	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190823	BERWICK GOLF CLUB	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190824	BER-VAUGHN PARK	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190825	BEAVER MAIN ELEM SCHOOL	NONTRANSIENT NONCOMM	116	Columbia	WELL 1	PERMANENT	0
4190827	CHINA QUEEN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190830	TERRAPINS CANTINA	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190831	SHADY REST CAMPGROUND	TRANSIENT NONCOMM	86	Columbia	SPRING 1	PERMANENT	.
4190834	BUSTERS OUTBACK BAR & GRILL	TRANSIENT NONCOMM	25	Columbia	WELL	PERMANENT	.
4190836	MILL RACE GOLF AND CAMP RESORT	TRANSIENT NONCOMM	25	Columbia	RESTAURANT WELL	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190836	MILL RACE GOLF AND CAMP RESORT	TRANSIENT NONCOMM	25	Columbia	OLD CG. WELL	SEASONAL	.
4190836	MILL RACE GOLF AND CAMP RESORT	TRANSIENT NONCOMM	25	Columbia	NEW CG. WELL	SEASONAL	.
4190837	TWIN BRIDGES PARK	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190838	TIKI LOUNGE	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190839	MORRIS FAMILY RESTAURANT	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190840	UNITED WATER PA COL CO IND PK	COMMUNITY	138	Columbia	MCGREGOR WELL 1	PERMANENT	0
4190840	UNITED WATER PA COL CO IND PK	COMMUNITY	138	Columbia	MCGREGOR WELL 2	PERMANENT	0
4190840	UNITED WATER PA COL CO IND PK	COMMUNITY	138	Columbia	SCENIC KNOLLS WELL 1	ABANDONED	8,000
4190840	UNITED WATER PA COL CO IND PK	COMMUNITY	138	Columbia	SCENIC KNOLLS WELL 2	ABANDONED	5,000
4190840	UNITED WATER PA COL CO IND PK	COMMUNITY	138	Columbia	SCENIC KNOLLS WELL 3	ABANDONED	8,000
4190846	BERWICK AREA POOL	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190855	ARNOLDS GOLF COURSE	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190861	BRASS PELICAN	TRANSIENT NONCOMM	25	Columbia	WELL #1	PERMANENT	.
4190865	HESS MARKET	TRANSIENT NONCOMM	25	Columbia	WELL #1	PERMANENT	.
4190871	COLUMBIA MALL	NONTRANSIENT NONCOMM	2,000	Columbia	WELL 1	PERMANENT	0
4190872	VALLEY KWIK MART	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190873	KENTUCKY FRIED CHICKEN	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190875	MILLVILLE AMERICAN LEGION	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190876	GEISINGER OFFICE BUILDING 2	NONTRANSIENT NONCOMM	165	Columbia	WELL 1	PERMANENT	0
4190880	SHORT STOP MART	TRANSIENT NONCOMM	25	Columbia	WELL #1	PERMANENT	0
4190882	SPRINGBROOK FAMILY CAMPGROUND	TRANSIENT NONCOMM	40	Columbia	WELL 1	PERMANENT	0
4190883	MELONIES KOLD KUP	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	0
4190884	COUNTRY FRESH MARKET	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	0
4190889	KLEERDEX CO.	NONTRANSIENT NONCOMM	93	Columbia	WELL 1	PERMANENT	0
4190892	WISE FOODS INC	NONTRANSIENT NONCOMM	600	Columbia	WELL 1	PERMANENT	864,000
4190898	CAMP VICTORY	TRANSIENT NONCOMM	150	Columbia	OLD WELL AT STAFF H.	PERMANENT	15
4190898	CAMP VICTORY	TRANSIENT NONCOMM	150	Columbia	NEW WELL IN FIELD	PERMANENT	8
4190898	CAMP VICTORY	TRANSIENT NONCOMM	150	Columbia	SOUTH WELL	ABANDONED	28,800
4190900	WENDYS	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	40
4190901	BENTON FOUNDRY INC	NONTRANSIENT NONCOMM	175	Columbia	WELL 1	PERMANENT	.
4190904	PENNA STATE POLICE BLOOMSBURG	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	12
4190905	BLOOMSBURG CHRISTIAN SCHOOL	NONTRANSIENT NONCOMM	80	Columbia	WELL 1	PERMANENT	.
4190906	SAW MILL ROAD OFFICE BLDG	NONTRANSIENT NONCOMM	150	Columbia	WELL 1	PERMANENT	.
4190911	COLUMBIA CO CHRISTIAN SCHOOL	NONTRANSIENT NONCOMM	270	Columbia	WELL 1	PERMANENT	.
4190912	CINEMA CENTER	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.

Table 2.3-41— {Drinking Water Wells Used for Public Water Supplies, Luzerne and Columbia Counties}

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PWSID	SYSTEM NAME	SYSTEM TYPE	POPULATION SERVED	COUNTY	SOURCE NAME	SOURCE AVAILABILITY	SOURCE CAPACITY - GPD
4190913	FRESH N QUIK	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190915	PORTABELLA CATERING	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190916	THE LINKS AT HEMLOCK CREEK	TRANSIENT NONCOMM	75	Columbia	WELL 1 AT CLUBHOUSE	PERMANENT	.
4190916	THE LINKS AT HEMLOCK CREEK	TRANSIENT NONCOMM	75	Columbia	WELL 2 AT PRO SHOP	PERMANENT	.
4190917	ACORN ACRES CAMPGROUND	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190918	RITAS ITALIAN ICE	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190920	MUSTANG SALLYS	TRANSIENT NONCOMM	25	Columbia	WELL 1	PERMANENT	.
4190999	PPL ELECTRIC UTILITIES CORP	NONTRANSIENT NONCOMM	50	Columbia	WELL 1	PERMANENT	0
Source: PADEP, 2010c							

Table 2.3-42— Summary of BBNPP Surface Water Data for 2008

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Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Creeks		Susquehanna River		Average SSES River Data 2002-2006[3]
			Minimum	Maximum	Minimum	Maximum	
Anions							
Chloride	mg/L	5	5.3	20	18	50	23.7
Fluoride	mg/L	1	ND[2]	ND	ND	ND	0.08
Sulfate	mg/L	5	6.3	15	14	47	26.34
Biological Parameters							
Fecal Coliform	FC/100 ml	1	2	1400	5	250	--
Total Coliform[4]	coliform/100 ml	1	>80	>8000	920	5400 est.	--
Chlorophyll a	mg/m^3	2	ND	19	ND	6.7	--
Fecal streptococci	CFU/100 ml	1	ND	5200	ND	37	--
General Water Quality Parameters							
Alkalinity as $CaCO_3$	mg/L	1	5.9	38	43	95	59
Bicarbonate Alkalinity as $CaCO_3$	mg/L	1	5.9	38	43	94	70.5
Biological Oxygen Demand (BOD)	mg/L	2	2	18	2	8	--
Carbonaceous Biological Oxygen Demand (CBOD)	mg/L	2	ND	11	ND	3	0.18
Carbonate Alkalinity as $CaCO_3$	mg/L	1	ND	ND	ND	ND	--
Chemical Oxygen Demand (COD)	mg/L	20	ND	21	ND	25	--
Color	PCU	5	ND	40	ND	15	--
Hardness as calcium carbonate	mg/L	3.3	22	50	65	140	--
Odor	T.O.N.	1	ND	ND	ND	ND	--
HEM (Oil & Grease)	mg/L	5	ND	ND	ND	ND	--
Orthophosphate (as PO_4)	mg/L	0.1	ND	0.125	ND	ND	--
Phenolphthalein Alkalinity	mg/L	1	ND	ND	ND	ND	0.2
Phosphorus[5]	mg/L	0.1	ND	ND	ND	ND	--
Total Suspended Solids	mg/L	5	ND	43	ND	12	11.7
Total Dissolved Solids	mg/L	5	45	180	110	250	--
Inorganic Chemicals (IOCs)							
Aluminum, Total	mg/L	0.01	0.048	1.3	0.017	0.34	0.24
Aluminum, Dissolved	mg/L	0.2	ND	ND	ND	ND	ND
Antimony, Total	mg/L	0.0005	ND	ND	ND	ND	ND
Arsenic, Total	mg/L	0.001	ND	0.0011	ND	ND	<1.0

Table 2.3-42— Summary of BBNPP Surface Water Data for 2008

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Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Creeks		Susquehanna River		Average SSES River Data 2002-2006[3]
			Minimum	Maximum	Minimum	Maximum	
Barium, Total	mg/L	0.002	0.011	0.032	0.027	0.038	0.030
Beryllium, Total	mg/L	0.0004	ND	ND	ND	ND	ND
Cadmium, Total	mg/L	0.0001	ND	0.00011	ND	ND	ND
Calcium, Total	mg/L	0.5	5.3	14	20	22	26.2
Calcium, Dissolved	mg/L	0.5	5.0	14	ND	38	26
Chromium, Total	mg/L	0.001	ND	0.0013	ND	ND	ND
Copper, Total	mg/L	0.001	ND	0.0053	ND	0.002	ND
Copper, Dissolved	mg/L	0.02	ND	ND	ND	ND	ND
Iron, Total	mg/L	0.05	0.057	4.6	0.21	0.8	0.84
Iron, Dissolved	mg/L	0.05	ND	0.56	ND	0.28	0.12
Lead, Total	mg/L	0.0003	ND	0.009	ND	11	ND
Magnesium, Total	mg/L	0.5	2.0	3.8	4	11	6.21
Magnesium, Dissolved	mg/L	0.5	1.9	3.9	0.044	11	6.10
Manganese, Total	mg/L	0.002	0.0033	1.3	ND	0.1	0.107
Manganese, Dissolved	mg/L	0.01	ND	0.65	ND	0.071	0.052
Mercury, Total	mg/L	0.0001	ND	ND	ND	0.0032	--
Nickel, Total	mg/L	0.0002	0.00045	0.0033	0.0018	2.9	ND
Potassium, Total	mg/L	0.05	0.74	3.9	1.2	2.5	1.62
Potassium, Dissolved	mg/L	1	ND	4.3	1.1	39	1.56
Selenium, Total	mg/L	0.0005	ND	ND	ND	ND	ND
Silver, Total	mg/L	0.001	ND	ND	ND	ND	ND
Sodium, Total	mg/L	1	4.3	9.7	11	32	14.3
Sodium, Dissolved	mg/L	1	4.0	9.4	11	31	14.4
Strontium, Total	mg/L	0.0002	0.026	0.063	0.066	0.18	0.101
Thallium, Total	mg/L	0.0002	ND	ND	ND	ND	ND
Vanadium, Total	mg/L	0.001	ND	0.0021	ND	ND	<0.001
Zinc, Total	mg/L	0.02	ND	0.021	ND	ND	ND
Zinc, Dissolved	mg/L	0.02	ND	ND	ND	ND	ND
Nitrogen-Based Analytes							
Ammonia Nitrogen	mg/L	0.03	0.049	0.28	0.078	0.27	<0.10
Nitrate as N	mg/L	0.5	ND	0.76	ND	0.73	0.84

Table 2.3-42— Summary of BBNPP Surface Water Data for 2008

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Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Creeks		Susquehanna River		Average SSES River Data 2002-2006[3]
			Minimum	Maximum	Minimum	Maximum	
Nitrate + Nitrite as N	mg/L	1	ND	ND	ND	ND	--
Nitrite as N	mg/L	0.5	ND	ND	ND	ND	--
Total Kjeldahl Nitrogen	mg/L	0.2	ND	0.81	0.26	0.66	--
Nitrogen, Total	mg/L	0.25	0.59	1.4	0.8	1.2	--
Nitrogen, Organic	mg/L	0.17	ND	0.57	ND	0.58	--
Radionuclides							
Barium-140 (Ba-140)	pCi/L	41[6]	ND	ND	ND	ND	--
Cesium-137 (Cs-137)	pCi/L	15[6]	ND	ND	ND	ND	--
Cobalt-58 (Co-58)	pCi/L	13[6]	ND	ND	ND	ND	--
Cobalt-60 (Co-60)	pCi/L	16[6]	ND	ND	ND	ND	--
Iodine-131 (I-131)	pCi/L	11[6]	ND	ND	ND	ND	--
Iron-59 (Fe-59)	pCi/L	27[6]	ND	ND	ND	ND	--
Lanthanum-140 (La-140)	pCi/L	16[6]	ND	ND	ND	ND	--
Manganese-54 (Mn-54)	pCi/L	15[6]	ND	ND	ND	ND	--
Niobium-95 (Nb-95)	pCi/L	12[6]	ND	ND	ND	ND	--
Potassium-40 (K-40)	pCi/L	175[6]	ND	ND	ND	ND	--
Tritium (H-3)	pCi/L	322[6]	ND	ND	ND	ND	--
Zinc-65 (Zn-65)	pCi/L	31[6]	ND	ND	ND	ND	--
Zirconium-95 (Zr-95)	pCi/L	22[6]	ND	ND	ND	ND	--
Field Analyses[7]							
Specific Conductance	mS/cm	[8]	0.069	0.188	0.194	0.431	0.234
Dissolved Oxygen	mg/L	[8]	6.87	12.73	7.08	21.30	10.48
pH	SU	[8]	6.63	7.87	6.82	7.86	7.4
Temperature	°C	[8]	2.78	21.35	1.06	27.98	13.16
Turbidity	NTU	[8]	0.0	91	N/R	N/R	9

Table 2.3-42— Summary of BBNPP Surface Water Data for 2008

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Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Creeks		Susquehanna River		Average SSES River Data 2002-2006[3]
			Minimum	Maximum	Minimum	Maximum	

Notes:
ND = Not Detected
N/R = Not Run
FC = Fecal Coliforms or Fecal Coliform Colonies
CFU = Colony Forming Units
PCU = Platinum Cobalt Units
T.O.N. = Threshold Odor Number
NTU = Nephelometric Turbidity Unit
(1) Parameters to be analyzed in all four rounds of the investigation.
(2) Presence of analyte below the Analytical Reporting Level (RL) was considered to be "Not Detected." The RL is the lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a reasonable degree of accuracy and precision. The RL is usually greater than the Method Detection Limit (MDL), the minimum concentration that can be measured and reported with 99% confidence that the value is above zero (25 Pa. Code 16.102(a)(3)). The MDL achieved in a given analysis will vary depending on instrument sensitivity and matrix effects. Since RL for radiological parameters is sample specific, value given is an average.
(3) Water quality data is an average of sample results collected quarterly from 2002 to 2006 for SSES. Samples are from the Susquehanna River samples at a location upstream of the BBNPP site (SSES Control; same as SR-01) (Ecology III, 2007).
(4) Coliform counts indicated as "estimated" represent an approximate bacterial count for that sample.
(5) Phosphorus analysis was performed only in July 2008.
(6) Reporting Level of each radiological parameter is sample- and instrument-specific. Each Reporting Level presented is an average of all Minimum Detectable Concentrations (MDCs) for that parameter.
(7) Values shown for Field Analyses represent the ranges for the surface water monitoring locations that were sampled.
(8) Reporting Level of field analysis parameter is not applicable.

Table 2.3-43— Summary of BBNPP Groundwater Data for 2008

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Groundwater Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Glacial Outwash Acquifer		Shale Bedrock Aquifer	
			Minimum	Maximum	Minimum	Maximum
Anions						
Chloride	mg/L	5	ND[2]	13	ND	7.3
Fluoride	mg/L	1	ND	ND	ND	ND
Sulfate	mg/L	5	11	57	16	58
Biological Parameters						
Fecal Coliform	FC/100 ml	1	ND	ND	ND	ND
Total Coliform[4]	coliform/100 mL	1	ND	3	ND	11
Fecal streptococci	CFU/100 ml	1	ND	ND	ND	2
General Water Quality Parameters						
Alkalinity as $CaCO_3$	mg/L	1	ND	52	34	110
Bicarbonate Alkalinity as $CaCO_3$	mg/L	1	ND	52	5.9	110
Biological Oxygen Demand (BOD)	mg/L	2	ND	7	ND	10
Carbon Dioxide, Free	mg/L	1	ND	31	ND	3
Carbonaceous Biological Oxygen Demand (CBOD)	mg/L	2	ND	3	ND	4
Chemical Oxygen Demand (COD)	mg/L	20	ND	24	ND	ND
Color	PCU	5	ND	10	ND	25
Hardness as $CaCO_3$	mg/L	3.3	49	100	21	150
Odor	T.O.N.	1	ND	ND	ND	64
Orthophosphate (as PO_4)	mg/L	0.1	ND	ND	ND	ND
Phosphorus, Total	mg/L	0.1	ND	0.12	ND	ND
Total Suspended Solids	mg/L	5	ND	ND	ND	72
Total Dissolved Solids	mg/L	5	85	170	82	170
Inorganic Chemicals (IOCs)						
Aluminum, Total	mg/L	0.01	ND	0.11	ND	0.1
Antimony, Total	mg/L	0.0005	ND	ND	ND	ND
Arsenic, Total	mg/L	0.001	ND	ND	ND	ND
Barium, Total	mg/L	0.002	0.013	0.064	0.02	0.11
Beryllium, Total	mg/L	0.0004	ND	ND	ND	ND
Cadmium, Total	mg/L	0.0001	ND	ND	ND	ND
Calcium, Total	mg/L	0.5	12	33	7.4	51
Chromium, Total	mg/L	0.001	ND	ND	ND	ND

Table 2.3-43— Summary of BBNPP Groundwater Data for 2008

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Groundwater Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Glacial Outwash Acquifer		Shale Bedrock Aquifer	
			Minimum	Maximum	Minimum	Maximum
Copper, Total	mg/L	0.001	ND	ND	ND	ND
Iron, Total	mg/L	0.05	ND	2.5	ND	0.37
Lead, Total	mg/L	0.0003	ND	ND	ND	ND
Magnesium, Total	mg/L	0.5	3.2	5.3	0.6	9.2
Manganese, Total	mg/L	0.002	0.014	0.72	0.0023	0.32
Mercury, Total	mg/L	0.0001	ND	ND	ND	ND
Nickel, Total	mg/L	0.0002	0.00031	0.0043	ND	0.0016
Potassium, Total	mg/L	0.05	0.45	1.6	0.39	11
Selenium, Total	mg/L	0.0005	ND	0.0005	ND	ND
Silica	µg/L	1,070	9,760	15,400	11,500	19,700
Silver, Total	mg/L	0.001	ND	ND	ND	ND
Sodium, Total	mg/L	1	2.3	11	9	20
Strontium, Total	mg/L	0.0002	0.057	0.13	0.5	1.8
Thallium, Total	mg/L	0.0002	ND	ND	ND	ND
Vanadium, Total	mg/L	0.001	ND	ND	ND	0.0017
Zinc, Total	mg/L	0.02	ND	ND	ND	ND
Nitrogen-Based Analytes						
Ammonia	mg/L	0.03	ND	0.22	0.13	0.99
Nitrate	mg/L	0.5	ND	5.82	ND	2
Nitrate + Nitrite as N	mg/L	1	ND	5.82	ND	ND
Nitrite	mg/L	0.5	ND	ND	ND	ND
Nitrogen, Organic	mg/L	0.17	ND	0.3	ND	0.4
Radionuclides						
Barium-140 (Ba-140)	pCi/L	43[3]	ND	ND	ND	ND
Cesium-134 (Cs-134)	pCi/L	15[3]	ND	ND	ND	ND
Cesium-137 (Cs-137)	pCi/L	15[3]	ND	ND	ND	ND
Cobalt-58 (Co-58)	pCi/L	14[3]	ND	ND	ND	ND
Cobalt-60 (Co-60)	pCi/L	15[3]	ND	ND	ND	ND
Iron-59 (Fe-59)	pCi/L	27[3]	ND	ND	ND	ND
Lanthanum-140 (La-140)	pCi/L	17[3]	ND	ND	ND	ND
Manganese-54 (Mn-54)	pCi/L	14[3]	ND	ND	ND	ND

Table 2.3-43— Summary of BBNPP Groundwater Data for 2008

(Page 3 of 3)

Groundwater Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Glacial Outwash Acquifer		Shale Bedrock Aquifer	
			Minimum	Maximum	Minimum	Maximum
Niobium-95 (Nb-95)	pCi/L	13[3]	ND	ND	ND	ND
Potassium-40 (K-40)	pCi/L	185[3]	ND	ND	ND	ND
Tritium (H-3)	pCi/L	322[3]	ND	ND	ND	1020
Zinc-65 (Zn-65)	pCi/L	35	ND	ND	ND	ND
Zirconium-95 (Zr-95)	pCi/L	24[3]	ND	ND	ND	ND
Field Analyses[4]						
Specific Conductance	mS/cm	[5]	0.129	0.241	0.133	0.546
Dissolved Oxygen	mg/L	[5]	0	7.52	0	0
pH	SU	[5]	5.58	6.86	7.32	11.10
Temperature	°C	[5]	8.43	12.36	10.21	13.35
Turbidity [6]	NTU	[5]	0	5.8	0	2.4

Notes:
n/a = Not Applicable
ND = Not Detected
FC = Fecal Coliforms or Fecal Coliform Colonies
CFU = Colony Forming Units
PCU = Platinum Cobalt Units
T.O.N. = Threshold Odor Number
NTU = Nephelometric Turbidity Units
(1) Parameters to be analyzed in all four rounds of the investigation.
(2) Presence of analyte below the Analytical Reporting Level (RL) was considered to be "Not Detected." The RL is the lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a reasonable degree of accuracy and precision. The RL is usually greater than the Method Detection Limit (MDL), the minimum concentration that can be measured and reported with 99% confidence that the value is above zero (25 Pa. Code 16.102(a)(3)). The MDL achieved in a given analysis will vary depending on instrument sensitivity and matrix effects.
(3) Reporting Level of each radiological parameter is sample- and instrument-specific. Each reporting Level presented is an average of all Minimum Detectable Concentrations (MDCs) for that parameter.
(4) Values shown for Field Analyses represent the ranges for only the specific wells that were sampled.
(5) Reporting Level of field analysis parameter is not applicable.
(6) Turbidity MCL is applicable only to unfiltered surface water used for drinking water.

Table 2.3-44— Organic Chemical and Radiological Parameters[1] Analyzed in Groundwater Samples from BBNPP Site, February 2008 [2]

Volatile Organic Chemicals (VOCs)	**Synthetic Organic Chemicals (SOCs)**
Benzene	Alachlor
Carbon Tetrachloride	Atrazine
o-Dichlorobenzene	Benzo(a)pyrene
p-Dichlorobenzene	Carbofuran
1,2-Dichloroethane	Chlordane
1,1-Dichloroethylene	2,4-D
cis-1,2-Dichloroethylene	Dalapon
trans-1,2-Dichloroethylene	Dibromochloropropane (DBCP)
Dichloromethane	Di(2-ethylhexyl) Adipate
1,2-Dichloropropane	Di(2-ethylhexyl) Phthalate
Ethylbenzene	Dinoseb
Monochlorobenzene	Diquat
Styrene	Endothall
Tetrachloroethylene	Endrin
Toluene	Ethylene dibromide (EDB)
1,2,4-Trichlorobenzene	Glyphosate
1,1,1-Trichloroethane	Heptachlor
1,1,2-Trichloroethane	Heptachlor epoxide
Trichloroethylene	Hexachlorobenzene
Vinyl chloride	Hexachlorocyclopentadiene
Xylenes (Total)	Lindane
	Methoxychlor
	Oxamyl (Vydate)
	PCBs, Total
Radiological Parameters	Pentachlorophenol
Gross Alpha	Picloram
Beta Particle & Photon Activity	Simazine
Combined Radium 226 + Radium 228 [3]	Toxaphene
Uranium	2,4,5-TP (Silvex)

Notes:
(1) All parameters selected are Pennsylvania Drinking Water Standards. Source: Pennsylvania Department of Environmental Protection, Division of Drinking Water Management, Maximum Contaminant Levels (MCLs) & Maximum Residual Disinfectant Levels (MRDLs), 25 Pa. Code § 109.202
(2) Samples were collected from three Glacial Outwash wells (MW-301A, MW-304A, MW-305A) and one Bedrock well (MW-304B) in February 2008. See text for description of limited sampling program.
(3) The MCL for radium is based on the combined analytical results of two isotopes: Radium 226 and Radium 228.

Table 2.3-45— Summary of Water Quality Data For The Susquehanna River, 1968-1977

(Page 1 of 2)

Parameter[1]	Number of Samples	Maximum	Minimum	Average
Total suspended solids	174	912.6	1.6	54.8
Total dissolved solids	174	467.4	66.8	192.2
Total mineral solids	174	400.6	66.3	190.3
Specific conductance (mS/cm)[2]	174	0.635	0.098	0.297
Total alkalinity (as $CaCO_3$)	163	78.0	21.0	43.0
Total hardness (as $CaCO_3$)	174	279.0	34.5	116.1
Chloride (Cl)	174	32.9	3.6	13.0
Sulfate (SO_4)	174	222.5	12.8	69.1
Nitrate (N)	173	1.67	0.09	0.59
Ammonia (N)	173	0.84	0.00	0.27
Phosphate (PO_4), total	20	1.54	0.04	0.28
Phosphate (PO_4), dissolved	125	0.48	0.00	0.08
Carbon dioxide (CO_2)	54	13.5	3.0	7.3
Bicarbonate (HCO_3)	174	90.3	25.6	52.9
pH (units)	174	8.65	6.6	7.18
Water Temperature (°C)	170	29.4	0.0	12.2
Dissolved oxygen (O_2)	164	15.0+	5.8	10.1
Color (PCU)[3]	173	116.0	0.0	27.4
Turbidity (JTU)[4]	53	170.0	5.2	28.1
Chemical oxygen demand	135	70.8	3.5	15.2
Biochemical oxygen demand	138	6.6	0.10	1.74
Soluble silica (SiO_2)	174	6.25	0.005	3.16
Chlorine demand (1 hr)	101	3.80	0.27	2.07
Sodium (Na)	75	16.7	3.6	8.5
Magnesium (Mg)	174	42.0	1.6	9.3
Calcium (Ca)	174	65.2	11.2	31.3
Sodium and potassium (as Na), by Diff.	99	32.4	0.0	8.7
Potassium (K)	75	2.8	0.39	1.5
Iron (Fe), dissolved	169	2.29	0.0	0.42
Copper (Cu), dissolved	74	0.03	0.0	0.01
Manganese (Mn), dissolved	169	3.45	0.0	0.26
Zinc (Zn), dissolved	74	0.04	0.00	0.23
Aluminum (Al), dissolved	169	0.35	0.00	0.03
Iron (Fe), total	86	17.30	0.15	3.20
Copper (Cu), total	73	0.10	0.00	0.02
Manganese (Mn), total	73	1.37	0.01	0.41
Zinc (Zn), total	73	0.10	0.00	0.03
Aluminum (Al), total	72	9.40	0.08	1.13
Nickel (Ni), total	8	0.04	0.01	0.02
Arsenic (As), total	2	<0.010	<0.010	<0.010
Mercury (Hg), total	2	<0.0002	<0.0002	<0.0002
Lead (Pb), total	2	<0.001	0.000	<0.0001
Nickel (Ni), dissolved	6	0.04	0.000	0.015

Table 2.3-45— Summary of Water Quality Data For The Susquehanna River, 1968-1977

(Page 2 of 2)

Parameter[1]	Number of Samples	Maximum	Minimum	Average
(1) Test results in mg/L unless noted otherwise. (2) It is assumed that the original reference (NRC, 1981) incorrectly reported data in units of mmhos/cm, instead of umhos/cm. The original data have been divided by 1000 and reported in units of mS/cm ni this table. (3) PCU = Platinum Cobalt Units (4) JTU = Jackson Turbidity Units Reference Tables 2.6 and 2.7 from NRC (1981)				

Table 2.3-46— Water Quality in the Susquehanna River Between 2002 and 2006 (yearly averages of SSES quarterly data)

(Page 1 of 2)

Parameter	Unit	SSES Control (same as SR01, Figure 2.3-32)					Bell Bend (SSES Indicator, Figure 2.3-32)				
		2002	2003	2004	2005	2006	2002	2003	2004	2005	2006
Temperature	°C	13.8	14.4	11.9	12.8	12.9	13.8	14.4	11.9	12.9	12.7
pH, field		7.6	7.2	7.3	NM	NM	7.7	7.3	7.3	NM	NM
Specific Conductance, field	mS/cm	0.238	0.226	0.238	NM	NM	0.251	0.228	0.244	NM	NM
Turbidity, field	NTU	3.9	12.8	10.3	NM	NM	3.9	12.7	10.4	NM	NM
Dissolved oxygen	mg/L	11.0	9.5	10.9	10.7	10.3	11.0	8.9	10.8	10.7	10.4
River level	ft	NM	NM	NM	490.1	489.9	NM	NM	NM	NM	NM
pH, lab		7.92	7.53	7.65	7.99	7.82	7.93	7.59	7.65	8.01	7.8
Specific Conductance, lab	mS/cm	0.261	0.241	0.256	0.290	0.257	0.268	0.243	0.258	0.301	0.258
Total alkalinity (as $CaCO_3$)	mg/L	57	56	59	61	64	58	57	60	63	64
Phenolphthalein alkalinity	mg/L	0.25	0.00	0.00	0.50	0.00	0.25	0.00	0.00	0.50	0.00
Total suspended solids	mg/L	8.1	23.7	11.9	6.4	8.5	7.5	21.8	12.6	7.6	8.2
Ammonia (as N)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silicon dioxide	mg/L	2.09	3.73	2.50	4.34	3.14	2.10	3.82	3.26	4.55	3.14
Bicarbonate (as $CaCO_3$)	mg/L	68.6	68.6	71.7	72.9	70.5	70.2	69.6	72.8	75.3	70.7
Carbonate (by calculation)	mg/L	0.3	0	0	0.6	0	0.3	0	0	0.6	0
Chloride	mg/L	25.4	20	22.8	28	22.4	26.6	20.2	23.1	29.2	22.7
Fluoride	mg/L	0.10	0.06	0.08	<0.10	0.07	0.06	0.06	0.07	<.10	0.08
Nitrate (as NO_3)	mg/L	1.8	2.8	1.6	2.0	2.1	1.6	2.9	1.6	2.1	2.1
Nitrate ion (as N)	mg/L	0.4	0.6	2.2	0.5	0.5	0.4	0.7	2.2	0.5	0.5
Phosphorus (as PO4)	mg/L	0.154	0.262	0.291	0.107	0.171	0.165	0.262	0.245	0.107	0.163
Sulfate	mg/L	24.2	25.7	24.4	33.4	24.0	26.9	25.8	24.7	36.6	24.1
Total mineral solids	mg/L	112.41	131.27	134.06	157.04	137.56	99.26	132.44	136.3	165.36	138.01
Calcium hardness (C) (as $CaCO_3$)	mg/L	62.63	62.7	63.8	68.8	67.4	64.3	62.9	64.2	71.5	67.3
Total hardness (C) (as $CaCO_3$)	mg/L	88.7	88.0	89.2	98.4	90.8	89.9	88.1	89.7	102.6	90.8
Aluminum, dissolved	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminium, total	ug/L	148	519	299	100	147	142	524	311	97	153
Antimony, total	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, total	ug/L	<1.0	<1.0	0.75	<1.0	<1.0	<1.0	<1.0	<0.75	<1.0	<1.0

Table 2.3-46— Water Quality in the Susquehanna River Between 2002 and 2006 (yearly averages of SSES quarterly data)

(Page 2 of 2)

Parameter	Unit	SSES Control (same as SR01, Figure 2.3-32)					Bell Bend (SSES Indicator, Figure 2.3-32)				
		2002	2003	2004	2005	2006	2002	2003	2004	2005	2006
Barium, total	ug/L	28	32	33	27	29	28	33	33	28	28
Beryllium, total	ug/L	ND	ND	ND	<2.5	ND	ND	ND	ND	ND	ND
Cadmium, total	ug/L	ND	<0.25	ND	N.D	ND	ND	ND	ND	ND	ND
Calcium, dissolved	mg/L	25.1	25.1	25.6	27.6	26.5	25.8	25.2	25.7	28.7	27.0
Calcium, total	mg/L	25.5	25.3	25.8	27.5	26.9	25.8	25.4	26	28.7	26.9
Chromium, total	ug/L	ND	ND	<2.5	N.D	ND	ND	ND	ND	ND	ND
Copper, dissolved	ug/L	ND	ND	ND	<5	<5	ND	ND	ND	<2.5	ND
Copper, total	ug/L	ND	ND	ND	<2.5	ND	ND	ND	ND	<2.5	ND
Iron, dissolved	mg/L	0.12	0.13	0.15	0.10	0.11	0.13	0.15	0.15	0.10	0.11
Iron, total	mg/L	0.62	1.43	0.94	0.57	0.62	0.59	1.43	0.93	0.59	0.63
Lead, total	ug/L	N.D	<1	<1.25	ND	ND	ND	<0.10	<1.25	ND	ND
Magnesium, dissolved	mg/L	5.91	5.83	5.87	7.15	5.76	6.12	5.86	5.89	7.49	5.76
Magnesium, total	mg/L	6.05	6.02	5.99	7.19	5.79	6.18	6.03	6.02	7.55	5.78
Manganese, dissolved	ug/L	33	62	69	44	50	31	59	65	52	48
Manganese, total	ug/L	92	127	99	122	95	88	124	98	126	95
Nickel, total	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2.5
Potassium, dissolved	mg/L	1.68	1.54	1.55	1.65	1.40	1.75	1.54	1.56	1.74	1.36
Potassium, total	mg/L	1.76	1.63	1.63	1.68	1.42	1.79	1.64	1.64	1.77	1.37
Selenium, total	ug/L	N.D	N.D	ND	ND	ND	ND	ND	ND	ND	ND
Silver, total	ug/L	N.D	N.D	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, dissolved	mg/L	15.9	12.9	13.2	16.6	13.4	16.6	12.9	13.2	17.4	13.4
Sodium, total	mg/L	15.9	12.5	13.2	16.5	13.3	16.4	12.7	13.3	17.3	13.3
Strontium, total	ug/L	100	99	94	119	94	101	100	95	126	94
Thallium, total	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium, total	ug/L	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
Zinc, dissolved	ug/L	ND	ND	<15	<10	<20	ND	N.D	<15	<10	<15
Zinc, total	ug/L	ND	2.5	<15	<5	<5	ND	2.5	<10	<10	<5

NM = Not Measured.
ND = Not Detected
Reference: Ecology III (2003-2007)

Table 2.3-47— BBNPP Surface Water Quality Data, 2007-2008 Field Measurements

(Page 1 of 4)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)
Susquehanna River								
SR01	2/28/2008	7.80	0.240	NR	21.30	1.20	NR	NR
	4/14/2008	7.62	0.196	NR	11.57	10.96	NR	NR
	7/25/2008	6.82	0.396	NR	7.08	27.31	NR	NR
	10/6/2008	7.30	0.421	NR	9.56	15.98	NR	NR
SR02	2/28/2008	7.47	0.233	NR	20.14	1.06	NR	NR
	4/14/2008	7.71	0.194	NR	11.46	11.24	NR	NR
	7/22/2008	7.60	0.411	NR	8.97	27.98	NR	NR
	10/6/2008	7.86	0.431	NR	9.83	16.02	NR	NR
Creeks								
G1	10/31/2007	7.06	0.104	2.4	9.75	10.34	99.5	0.05
	1/28/2008	8.12	0.083	0.0	14.52	1.62	16.8	0.04
	2/29/2008	7.01	0.083	0.0	12.73	2.78	117.5	0.04
	4/15/2008	7.45	0.073	0.0	10.17	10.02	40.8	0.03
	7/25/2008	6.63	0.093	0.5	8.93	18.88	119.6	0.04
	10/1/2008	7.31	0.107	0.8	9.26	14.35	140.1	0.05
G2	10/31/2007	7.07	0.149	3.1	9.17	10.88	56.8	0.07
	1/28/2008	8.30	0.114	0.0	14.37	1.04	46.4	0.05
	2/29/2008	6.81	0.108	0.0	11.99	3.03	92.7	0.05
	4/15/2008	7.28	0.089	0.0	10.38	12.46	43.5	0.04
	7/25/2008	6.64	0.111	3.5	8.57	19.48	128.8	0.05
	10/6/2008	7.39	0.115	0.0	10.0	12.43	92.1	0.05
G3	10/31/2007	7.39	0.130	9.8	9.63	10.89	86.6	0.06
	1/28/2008	7.88	0.088	0.0	14.12	2.38	5.3	0.04
	2/29/2008	7.10	0.094	0.0	12.55	3.67	126.0	0.04
	4/15/2008	7.87	0.081	4.3	10.20	9.60	98.9	0.04
	7/25/2008	6.80	0.130	16.2	8.83	17.83	128.7	0.06
	10/8/2008	7.35	0.126	16.1	9.35	14.25	157.1	0.06

Table 2.3-47— BBNPP Surface Water Quality Data, 2007-2008 Field Measurements

(Page 2 of 4)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)
G4	10/31/2007	7.23	0.181	3.40	16.25	15.78	95.9	0.09
	1/28/2008	7.53	0.168	7.7	12.77	7.00	24.8	0.08
	2/29/2008	6.41	0.162	1.9	12.07	5.47	124.7	0.08
	4/15/2008	7.72	0.152	0.0	13.30	17.23	102.8	0.07
	7/25/2008	6.85	0.129	20.1	15.78	27.08	91.9	0.06
	10/1/2008	7.91	0.124	12.6	14.47	17.86	127.1	0.06
G5	10/31/2007	6.88	0.126	8.6	7.63	11.84	50.8	0.06
	1/28/2008	7.62	0.085	7.7	14.34	2.37	24.2	0.04
	2/29/2008	7.22	0.087	0.0	12.44	2.99	101.0	0.04
	4/15/2008	7.07	0.069	0.0	9.78	13.60	77.0	0.03
	7/25/2008	6.95	0.083	5.5	7.70	21.35	115.3	0.04
	10/1/2008	6.82	0.188	91.0	6.87	14.93	178.6	0.09
G10	10/31/2007	7.26	0.147	2.6	9.91	10.41	37.9	0.07
	1/28/2008	7.66	0.120	0.0	15.06	1.03	11.3	0.06
	2/29/2008	7.25	0.114	0.0	12.70	2.35	98.8	0.05
	4/15/2008	7.31	0.094	0.0	10.26	11.28	70.9	0.04
	7/25/2008	6.94	0.113	5.5	8.84	19.90	145.0	0.05
	10/4/2008	7.18	0.130	0.0	11.10	11.14	112.6	0.06
G11	10/31/2007	7.09	0.079	267.9	10.24	11.88	96.0	0.04
	1/28/2008	7.68	0.068	7.6	13.68	2.38	-38.3	0.03
	2/29/2008	6.85	0.062	0.1	12.81	2.05	140.1	0.03
	4/15/2008	7.30	0.062	0.4	10.03	9.94	29.9	0.03
	7/25/2008	NR	NR	NR	NR	NR	NR	NR
	10/1/2008	7.51	0.074	6.8	9.44	15.03	131.7	0.03
G12	10/31/2007	7.28	0.305	2.3	8.77	11.25	119.0	0.19
	1/28/2008	7.37	0.249	0.1	14.70	1.13	57.1	0.12
	2/29/2008	6.93	0.270	0.0	12.35	2.62	105.1	0.13
	4/15/2008	7.30	0.196	1.5	9.53	13.55	18.0	0.09
	7/25/2008	6.91	0.270	8.2	7.79	22.77	64.6	0.13
	10/1/2008	7.35	0.350	0.4	8.70	15.09	183.7	0.17

Table 2.3-47— BBNPP Surface Water Quality Data, 2007-2008 Field Measurements

(Page 3 of 4)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)
G13	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR
	2/29/2008	7.10	0.109	0.0	12.23	2.97	84.9	0.05
	4/15/2008	7.25	0.091	0.0	10.39	12.28	67.5	0.04
	7/25/2008	6.74	0.111	1.5	8.45	19.37	130.3	0.05
	10/4/2008	7.15	0.116	0.0	10.63	11.70	111.5	0.05
Ponds								
G6	10/31/2007	7.38	0.042	12.7	9.51	12.06	99.8	0.02
	1/28/2008	8.02	0.049	1.1	16.55	4.76	29.7	0.02
	2/29/2008	6.90	0.045	0.5	13.22	3.83	173.1	0.02
	4/15/2008	7.88	0.044	2.8	10.84	15.00	67.2	0.02
	7/25/2008	7.68	0.044	9.8	9.72	28.74	109.1	0.06
	10/4/2008	7.42	0.045	11.2	9.63	18.26	75.9	0.02
G7	10/31/2007	7.31	0.459	6.1	11.91	11.20	36.2	0.22
	1/28/2008	7.50	0.258	0.0	18.79	4.71	59.7	0.12
	2/29/2008	7.03	0.212	0.1	14.79	3.74	111.5	0.10
	4/15/2008	8.20	0.197	0.1	13.13	14.59	66.7	0.09
	7/25/2008	6.67	0.274	8.5	2.99	22.65	130.5	0.13
	10/4/2008	7.53	0.380	0.0	10.61	15.56	115.0	0.18
G8	10/31/2007	6.62	0.144	417.2	0.42	15.24	18.0	0.07
	1/28/2008	7.46	0.192	51.7	8.65	6.25	128.9	0.09
	2/29/2008	6.40	0.158	2.4	11.95	7.36	108.3	0.07
	4/15/2008	7.20	0.144	0.1	14.66	15.21	91.6	0.07
	7/25/2008	6.09	0.097	13.4	8.16	29.21	139.1	0.04
	10/1/2008	7.17	0.134	9.1	9.78	17.61	139.2	0.06

Table 2.3-47— BBNPP Surface Water Quality Data, 2007-2008 Field Measurements

(Page 4 of 4)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)
G9	10/31/2007	6.60	0.103	8.8	2.40	9.11	54.3	0.05
	1/28/2008	6.65	0.230	8.3	2.54	4.01	6.3	0.11
	2/29/2008	5.97	0.111	0.4	4.67	0.03	111.8	0.05
	4/15/2008	7.10	0.166	0.0	8.55	14.05	100.4	0.08
	7/25/2008	6.95	0.113	4.8	0.77	22.20	133.0	0.05
	10/4/2008	7.08	0.104	4.7	3.42	11.95	136.1	0.05

NR = No Reading Taken
(1) Sampling locations show on Figure 2.3-32

Table 2.3-48— BBNPP Groundwater Quality Data, 2007-2008 Field Measurements

(Page 1 of 6)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Salinity (ppt)	TDS (mg/L)
Glacial Outwash Aquifer									
MW301A	10/30/2007	5.76	0.173	0.4	1.34	12.92	189.3	0.08	113
	1/26/2008	5.81	0.149	0.0	5.98	10.66	221.6	0.07	97
	2/27/2008	5.68	0.129	2.4	7.52	9.16	206.6	0.06	84
	4/14/2008	5.70	0.136	0.0	7.30	8.43	201.1	0.06	88
	7/21/2008	6.86	0.160	0.0	5.02	11.08	193.9	0.08	104
	10/6/2008	5.58	0.171	0.0	3.72	11.95	271.9	0.08	111
MW302A1	10/30/2007	5.66	0.177	2.0	0.00	13.01	127.3	0.08	115
	1/26/2008	5.81	0.188	0.8	0.69	10.46	70.4	0.09	122
	2/29/2008	5.58	0.171	0.0	1.30	9.36	113.0	0.08	111
	4/16/2008	5.74	0.153	0.0	0.79	8.83	84.6	0.07	99
	7/22/2008	5.79	0.178	0.0	0.62	10.40	111.3	0.08	116
	10/2/2008	5.83	0.169	0.0	0.26	11.88	125.3	0.08	110
MW302A2	10/30/2007	5.58	0.165	2.1	1.40	12.92	160.3	0.08	107
	1/26/2008	5.76	0.186	1.0	0.68	10.52	79.3	0.09	121
	3/2/2008	5.74	0.189	0.0	0.0	16.86	67.0	0.09	123
	4/18/08	5.84	0.172	0.0	1.04	13.00	67.4	0.08	113
	7/24/2008	5.55	0.185	0.0	1.96	12.32	130.5	0.09	120
	10/3/2008	5.75	0.178	0.0	0.18	12.02	129.8	0.08	115
MW302A3	10/30/2007	5.55	0.159	6.7	3.31	12.73	177.8	0.08	104
	1/26/2008	5.67	0.179	11.3	0.85	10.62	114.4	0.08	116
	3/2/2008	5.70	0.187	0.0	0.45	14.08	107.3	0.09	122
	4/18/2008	5.76	0.182	0.0	1.89	11.27	100.6	0.08	109
	7/24/2008	5.45	0.179	0.1	3.60	12.89	167.8	0.08	119
	10/3/2008	5.62	0.176	0.0	0.53	12.66	152.2	0.08	114
MW302A4	10/30/2007	5.65	0.165	1.7	4.75	12.66	196.3	0.08	107
	1/27/2008	5.75	0.174	0.0	4.33	10.37	114.1	0.08	113
	3/2/2008	5.62	0.161	0.3	4.32	14.98	164.5	0.08	105
	4/18/2008	5.65	0.048	0.0	6.25	12.76	156.9	0.02	31
	7/24/2008	5.40	0.059	0.0	6.04	14.05	239.7	0.03	38
	10/3/2008	5.44	0.136	0.0	3.64	12.68	238.1	0.06	88

Table 2.3-48— BBNPP Groundwater Quality Data, 2007-2008 Field Measurements

(Page 2 of 6)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Salinity (ppt)	TDS (mg/L)
MW303A	10/31/2007	6.40	0.179	17.1	2.99	13.14	124.9	0.08	116
	1/29/2008	7.04	0.200	45.1	0.22	9.42	21.7	0.10	130
	3/2/2008	6.94	0.203	62.8	4.01	4.71	2.0	0.10	132
	4/19/2008	7.23	0.202	68.1	7.30	13.40	10.1	0.10	131
	7/25/2008	6.60	0.196	23.4	1.28	12.69	21.5	0.09	127
	10/4/2008	7.11	0.198	10.0	NR	12.60	-23.8	0.09	129
MW304A	10/31/2007	6.18	0.254	11.3	4.60	11.89	109.3	0.12	165
	1/28/2008	6.12	0.265	0.1	2.35	11.11	140.9	0.13	172
	2/27/2008	6.10	0.220	5.8	1.74	10.16	124.9	0.11	143
	4/15/2008	6.14	0.213	0.0	0.81	10.55	110.8	0.10	139
	7/22/2008	6.16	0.208	0.0	1.23	11.11	127.9	0.11	143
	10/2/2008	5.98	0.241	0.0	1.63	11.13	197.2	0.11	156
MW305A1	10/31/2007	6.35	0.204	30.2	1.51	13.61	146.7	0.10	133
	1/30/2008	6.14	0.186	9.3	1.22	10.84	162.3	0.09	121
	2/27/2008	5.97	0.159	3.0	2.65	10.43	172.4	0.08	103
	4/15/2008	6.21	0.169	0.0	1.78	10.65	153.0	0.08	110
	7/21/2008	6.83	0.162	0.2	1.31	11.12	183.2	0.08	105
	10/2/2008	6.40	0.156	0.0	1.34	11.80	240.0	0.07	101
MW305A2	10/31/2007	6.89	0.267	34.2	0.0	12.78	8.3	0.13	174
	1/30/2008	6.82	0.241	0.0	0.0	11.19	-47.0	0.12	157
	3/2/2008	6.77	0.236	0.0	0.0	14.97	-41.7	0.11	153
	4/18/2008	6.69	0.235	0.0	0.0	12.67	-23.1	0.11	149
	7/25/2008	6.60	0.238	0.0	0.0	11.77	27.2	0.11	155
	10/4/2008	6.64	0.241	1.1	0.0	12.19	5.0	0.12	157
MW306A	10/31/2007	6.28	0.189	6.5	5.24	13.02	168.0	0.09	123
	1/27/2008	6.23	0.178	0.8	5.72	12.10	130.7	0.08	116
	2/29/2008	6.07	0.167	0.0	6.52	11.50	204.8	0.08	108
	4/16/2008	6.18	0.172	0.0	6.67	11.35	153.5	0.08	112
	7/22/2008	6.29	0.212	0.0	0.53	11.55	118.3	0.10	138
	10/6/2008	6.47	0.196	0.0	1.13	12.36	81.7	0.09	127

Table 2.3-48— BBNPP Groundwater Quality Data, 2007-2008 Field Measurements

(Page 3 of 6)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Salinity (ppt)	TDS (mg/L)
MW307A	10/30/2007	7.27	0.294	139.6	3.96	13.36	41.8	0.14	191
	1/27/2008	7.34	0.300	10.8	2.54	9.56	7.9	0.14	194
	2/26/2008	7.20	0.294	49.9	4.11	11.28	31.2	0.14	191
	4/17/2008	7.14	0.279	36.3	4.99	12.32	122.0	0.13	180
	7/24/2008	7.50	0.303	12.1	2.90	19.08	130.0	0.14	197
	10/3/2008	7.13	0.268	94.4	1.45	12.66	101.1	0.13	174
MW308A	10/30/2007	5.95	0.138	15.5	3.90	11.96	134.6	0.07	90
	1/27/2008	5.91	0.147	0.0	0.89	10.98	214.0	0.07	96
	2/26/2008	5.78	0.142	0.4	0.59	9.63	239.6	0.07	92
	4/17/2008	5.72	0.143	0.0	0.35	12.21	157.5	0.07	93
	7/24/2008	5.73	0.128	0.3	0.00	12.50	182.3	0.06	83
	10/3/2008	5.87	0.074	0.0	0.00	12.06	208.0	0.03	45
MW309A	10/31/2007	6.49	0.348	3.8	4.59	14.22	155.8	0.17	227
	1/28/2008	6.29	0.469	0.0	5.71	9.30	151.1	0.23	304
	3/1/2008	6.13	0.414	0.0	4.77	15.20	150.9	0.20	269
	4/19/2008	6.15	0.429	0.0	5.23	9.48	245.4	0.21	279
	7/25/2008	6.37	0.419	0.0	0.94	12.89	220.6	0.20	272
	10/4/2008	6.51	0.402	0.0	1.18	13.34	172.2	0.19	261
MW310A	10/30/2007	7.18	0.079	1093.3	8.30	13.29	76.5	0.04	51
	1/26/2008	6.58	0.122	132.7	3.83	9.47	153.5	0.06	79
	2/26/2008	6.41	0.130	12.4	3.91	7.28	141.6	0.06	84
	4/17/2008	6.12	0.123	0.0	5.27	10.05	139.6	0.06	80
	7/24/2008	7.19	0.187	348.6	5.02	12.30	121.3	0.09	121
	10/3/2008	6.51	0.201	249.7	7.99	12.25	180.5	0.10	130
Shallow Bedrock Aquifer									
MW301B1	10/30/2007	9.42	0.210	8.8	1.75	12.74	-137.5	0.10	136
	1/26/2008	10.11	0.154	0.0	0.0	11.15	-191.5	0.07	100
	2/29/2008	10.13	0.156	0.0	0.0	10.21	-166.4	0.07	101
	4/14/2008	9.63	0.133	0.0	0.0	10.80	-186.5	0.06	86
	7/21/2008	9.19	0.137	0.4	0.0	13.35	-160.0	0.08	89
	10/6/2008	9.15	0.139	0.0	0.00	12.32	-156.8	0.07	90

Table 2.3-48— BBNPP Groundwater Quality Data, 2007-2008 Field Measurements

(Page 4 of 6)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Salinity (ppt)	TDS (mg/L)
MW302B	10/30/2007	9.19	0.256	15.7	0.22	12.28	-190.7	0.12	167
	1/26/2008	9.18	0.298	26.0	0.01	10.17	-317.5	0.14	194
	3/2/2008	9.19	0.283	11.9	0.54	13.41	-232.0	0.14	184
	4/18/2008	9.17	0.294	0.0	0.09	12.19	-204.4	0.14	191
	7/21/2008	NR	NR	NR	NR	NR	NR	NR	NR
	10/3/2008	9.10	0.267	0.0	0.20	12.21	-115.6	0.13	174
MW303B	10/31/2007	7.68	0.162	2.0	0.35	12.25	-7.5	0.08	105
	1/29/2008	7.54	0.176	0.0	0.0	11.12	127.8	0.08	114
	3/2/2008	7.47	0.191	0.0	0.06	10.34	-56.4	0.09	124
	4/19/2008	7.62	0.191	0.0	0.0	13.19	-86.4	0.09	124
	7/25/2008	7.28	0.190	0.0	0.0	13.15	-39.9	0.09	123
	10/4/2008	7.29	0.183	0.0	0.0	12.03	-60.0	0.09	119
MW304B	10/31/2007	9.86	0.332	10.0	5.27	12.17	-69.7	0.16	216
	1/29/2008	11.18	0.518	0.0	0.0	11.62	-178.5	0.26	336
	2/27/2008	10.71	0.418	1.5	0.0	10.82	-138.6	0.20	272
	4/15/2008	11.10	0.544	0.0	0.0	11.39	-151.3	0.26	347
	7/22/2008	11.00	0.546	0.0	0.0	13.27	-85.7	0.27	355
	10/2/2008	10.68	0.375	0.0	0.1	11.65	-16.9	0.18	244
MW305B	10/31/2007	7.32	0.264	2.5	2.60	12.97	57.3	0.13	172
	1/30/2008	7.43	0.272	0.0	0.0	11.49	-151.5	0.13	177
	2/27/2008	7.37	0.251	2.4	0.0	10.78	-109.3	0.12	163
	4/15/2008	7.32	0.266	0.0	0.0	11.39	-118.6	0.13	173
	7/21/2008	7.56	0.265	0.2	0.0	12.21	-89.3	0.13	173
	10/2/2008	7.60	0.269	0.0	0.0	11.58	-54.9	0.13	175
MW307B	10/30/2007	8.78	0.250	3.9	5.95	12.80	-24.6	0.11	158
	1/27/2008	8.73	0.248	0.0	0.0	11.75	-197.2	0.12	161
	2/26/2008	8.45	0.248	0.0	0.01	12.15	-158.3	0.12	161
	4/17/08	8.70	0.246	0.0	0.0	13.68	-89.4	0.12	160
	7/24/2008	8.51	0.257	0.0	0.0	14.22	-102.0	0.12	167
	10/3/2008	8.59	0.241	0.0	0.0	12.92	-54.9	0.12	157

Table 2.3-48— BBNPP Groundwater Quality Data, 2007-2008 Field Measurements

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Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Salinity (ppt)	TDS (mg/L)
MW308B	10/30/2007	7.79	0.210	934	10.17	13.17	48.3	0.10	137
	1/27/2008	7.70	0.430	969	0.42	11.83	0.0	0.21	279
	2/26/2008	7.41	0.412	1067	1.85	14.28	8.5	0.19	261
	4/17/2008	7.45	0.454	1116	3.43	11.70	77.7	0.22	294
	7/24/2008	6.74	0.580	340	2.72	11.77	114.9	0.28	377
	10/3/2008	7.35	0.538	NR	2.74	11.12	62.4	0.26	349
MW309B	10/31/2007	7.29	0.459	6.3	1.30	11.50	-1.2	0.22	298
	1/28/2008	7.32	0.465	0.0	0.0	11.11	-99.1	0.23	302
	3/1/2008	7.28	0.456	0.0	0.0	14.95	-102.0	0.22	296
	4/19/2008	7.36	0.452	0.0	0.0	13.78	-68.0	0.22	293
	7/25/2008	7.17	0.449	0.0	0.0	13.15	-39.1	0.22	292
	10/4/2008	7.19	0.440	0.0	0.0	11.55	-54.8	0.29	293
MW310B	10/30/2007	7.78	0.196	3.4	0.0	12.44	-63.4	0.09	127
	1/26/2008	7.64	0.194	0.0	0.0	11.24	-143.4	0.09	126
	2/26/2008	7.61	0.192	0.0	0.82	9.71	-67.2	0.09	125
	4/17/2008	7.52	0.196	0.0	0.0	13.04	-130.4	0.09	137
	7/24/2008	7.42	0.208	0.0	0.0	13.53	-94.4	0.10	135
	10/3/2008	7.44	0.196	0.0	0.0	12.04	-46.0	0.09	127
Deep Bedrock Aquifer									
MW303C	10/31/2007	7.97	0.173	6.0	5.45	12.76	58.7	0.08	113
	1/29/2008	7.98	0.171	0.0	0.0	11.38	10.5	0.08	111
	3/2/2008	7.94	0.169	0.0	0.02	14.75	-121.0	0.08	110
	4/19/2008	8.14	0.171	0.0	0.0	13.21	-166.4	0.08	111
	7/25/2008	7.73	0.164	0.0	0.0	13.29	-123.6	0.08	107
	10/4/2008	8.00	0.163	0.0	0.0	12.74	-171.4	0.08	106
MW304C	1/29/2008	9.58	0.552	182.1	0.24	11.83	-34.2	0.27	359
	3/1/2008	9.46	0.411	296.1	0.13	14.24	-173.4	0.20	267
	4/15/2008	9.31	0.361	84.2	0.10	12.12	-161.5	0.17	235
	7/22/2008	9.22	0.370	33.5	0.0	14.12	-132.2	0.18	240
	10/2/2008	9.45	0.352	15.9	0.0	12.55	-86.5	0.17	228

Table 2.3-48— BBNPP Groundwater Quality Data, 2007-2008 Field Measurements

(Page 6 of 6)

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Salinity (ppt)	TDS (mg/L)
MW306C	10/31/2007	8.59	0.197	16.6	0.0	12.48	-264.8	0.09	128
	1/27/2008	9.23	0.492	17.4	0.27	11.15	-27.4	0.24	320
	3/2/2008	8.97	0.517	3.9	0.02	16.09	-131.6	0.25	336
	4/18/2008	9.24	0.512	40.3	0.01	13.95	-41.3	0.25	335
	7/24/2008	8.98	0.556	3.3	0.0	14.25	40.3	0.27	361
	10/4/2008	9.22	0.537	0.4	0.01	11.98	-29.3	0.26	349

(1) Sampling locations are shown in Figure 2.3-31
NR = Not Recorded

Table 2.3-49— BBNPP Surface Water Quality Data, 2010-2011 Field Measurements

(Page 1 of 2)

Location	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)	TDS (mg/L)
Creeks									
G1	6/30/2010	7.83	0.097	1.5	8.29	16.74	78.8	0.05	63
	9/16/2010	7.99	0.078	1.8	8.58	12.87	107.1	0.04	50
	12/14/2010	7.37	0.060	0.0	13.64	1.70	176.4	0.03	39
	3/23/2011	6.84	0.071	1.20	12.31	4.11	179.4	0.03	46
G2	6/29/2010	8.00	0.117	1.4	7.97	22.46	112.5	0.05	76
	9/16/2010	7.87	0.089	0.0	9.05	13.55	109.2	0.04	58
	12/16/2010	7.73	0.023	1.6	NM[1]	NM[1]	86.4	0.01	15
	3/22/2011	7.72	0.090	0.3	11.58	6.06	101.1	0.04	NM[1]
G3	6/30/2010	7.94	0.078	0.5	7.01	15.91	111.7	0.04	51
	9/16/2010	NM	NM	NM	NM	NM	NM	NM	NM
	12/14/2010	7.52	0.073	0.0	12.90	2.87	183.1	0.03	47
	3/23/2011	6.87	0.074	5.60	11.83	5.17	185.3	0.03	48
G4	6/29/2010	8.24	0.176	9.9	11.68	28.47	105.1	0.08	114
	9/16/2010	NM	NM	NM	NM	NM	NM	NM	NM
	12/16/2010	7.69	0.044	30.9	NM1	NM[1]	90.6	0.02	29
	3/23/2011	6.23	0.157	16.1	11.03	4.31	141.9	0.07	102
G5	12/14/2010	7.45	0.094	0.0	13.08	1.04	177.1	0.04	65
	3/23/2011	6.73	0.071	3.0	11.86	5.07	157.9	0.03	46
G10	6/30/2010	7.70	0.126	8.6	8.02	18.24	87.3	0.06	82
	9/16/2010	7.65	0.193	0.6	7.96	14.73	128.2	0.09	126
	12/14/2010	7.34	0.081	0.6	14.49	0.21	184.9	0.04	53
	3/23/2011	7.07	0.019	0.70	12.62	3.50	168.1	0.04	60
G11	6/28/2010	7.50	0.062	38.4	8.16	18.90	153.4	0.03	38
	6/29/2010	7.47	0.058	66.3	8.20	18.90	125.0	0.03	36
	9/15/2010	7.39	0.062	66.8	6.08	16.79	32.7	0.03	40
	12/15/2010	7.34	0.047	5.2	12.98	3.46	71.3	0.02	31
	3/23/2011	6.60	0.049	16.1	12.01	3.27	169.6	0.02	32
G12	6/30/2010	7.69	0.216	55.9	0.48	14.58	68.6	0.10	140
	9/16/2010	NM	NM	NM	NM	NM	NM	NM	NM
	12/14/2010	7.16	0.203	4.1	13.43	1.15	194.3	0.10	132
G13	6/30/2010	7.91	0.116	3.2	8.17	16.49	84.8	0.05	75
	9/16/2010	7.83	0.096	3.4	8.03	14.13	129.9	0.04	63
	12/14/2010	7.47	0.081	8.5	13.57	1.24	179.6	0.04	52
	3/23/2011	7.09	0.089	0.60	12.22	3.50	154.1	0.04	40
Ponds									
G6	6/30/2010	8.44	0.043	51.2	8.17	24.30	100.1	0.02	28
	9/16/2010	8.78	0.035	32.3	9.23	18.92	95.7	0.02	23
	12/14/2010	NM	NM	NM	NM	NM	NM	NM	NM
	3/23/2011	6.76	0.035	4.30	12.24	43.54	186.9	0.02	23
G7	6/30/2010	7.69	0.310	4.9	7.09	24.38	129.3	0.15	202
	9/16/2010	NM	NM	NM	NM	NM	NM	NM	NM
G8	6/30/2010	7.46	0.137	5.6	1.12	19.54	108.6	0.06	89
	9/16/2010	NM	NM	NM	NM	NM	NM	NM	NM
	12/14/2010	6.98	0.134	38.5	10.37	8.72	194.4	0.06	88

Table 2.3-49— BBNPP Surface Water Quality Data, 2010-2011 Field Measurements

(Page 2 of 2)

Location	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (DO) (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)	TDS (mg/L)
	3/23/2011	6.74	0.141	18.7	15.72	5.76	118.6	0.07	80
G9	6/30/2010	NM	NM	NM	NM	NM	NM	NM	NM
	9/16/2010	7.63	0.098	67.70	2.61	15.18	142.10	0.05	64
	12/14/2010	NM	NM	NM	NM	NM	NM	NM	NM
	3/23/2011	6.65	0.145	7.50	12.30	3.62	215.4	0.07	94

Notes:

NM = No measurement taken (location is dry)

NM[1] =No measurement due to sensor malfunction

Table 2.3-50— Summary of BBNPP Surface Water Data for 2010-2011

(Page 1 of 4)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Minimum	Maximum
Anions				
Chloride	mg/L	5.0	ND	8.4
Fluoride	mg/L	1.0	ND	ND
Sulfate	mg/L	5.0	6.7	37
Biological Parameters				
Fecal Coliform	FC/100 mL	1	3	2600
Total Coliform	Coliform/100 mL	1	22	5800
Chlorophyll a	mg/m^3	10.0	ND	ND
Fecal Streptococci	CFU/100 mL	1	8	480
General Water Quality Parameters				
Alkalinity as $CaCO_3$	mg/L	5.0	ND	30
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5.0	ND	30
BOD (Biological Oxygen Demand)	mg/L	2.0	ND	5.8
$CBOD_5$ (Carbonaceous Biological Oxygen Demand)	mg/L	2.0	ND	4.9
Carbonate Alkalinity as $CaCO_3$	mg/L	5.0	ND	ND
COD (Chemical Oxygen Demand)	mg/L	20	ND	ND
Color	PCU	5.0	10	45
Hardness, total as $CaCO_3$	mg/L	3.3	18	80
Odor	T.O.N.	1.0	ND	ND
HEM (Oil & Grease)	mg/L	5.0	ND	27
Orthophosphate (as PO_4)	mg/L	0.050	ND	ND
Phenolphthalein Alkalinity	mg/L	5.0	ND	ND
Phosphorus, total	mg/L	0.10	ND	0.29
Suspended Solids (TSS)	mg/L	5.0	ND	36
Total Dissolved Solids (TDS)	mg/L	5.0	35	110
Inorganic Chemicals (IOCs)				
Aluminum, total	mg/L	0.010	0.014	0.52
Aluminum, dissolved	mg/L	0.20	ND	ND
Antimony, total	mg/L	0.0010	ND	ND
Arsenic, total	mg/L	0.0010	ND	ND
Barium, total	mg/L	0.0020	0.0092	0.032
Beryllium, total	mg/L	0.00040	ND	ND

Table 2.3-50— Summary of BBNPP Surface Water Data for 2010-2011

(Page 2 of 4)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Minimum	Maximum
Cadmium, total	mg/L	0.00010	ND	ND
Calcium, total	mg/L	0.50	4.5	23
Calcium, dissolved	mg/L	0.50	4.4	23
Chromium, total	mg/L	0.0020	ND	ND
Copper, total	mg/L	0.0010	ND	0.0015
Copper, dissolved	mg/L	0.020	ND	ND
Iron, total	mg/L	0.050	0.078	0.7
Iron, dissolved	mg/L	0.050	ND	0.23
Lead, total	mg/L	0.00030	ND	0.0013
Magnesium, total	mg/L	0.50	1.7	5.7
Magnesium, dissolved	mg/L	0.50	1.7	5.3
Manganese, total	mg/L	0.0025	0.017	0.11
Manganese, dissolved	mg/L	0.010	ND	0.04
Mercury, total	mg/L	0.00020	ND	ND
Nickel, total	mg/L	0.0010	ND	0.0023
Potassium, total	mg/L	0.10	0.5	2.8
Potassium, dissolved	mg/L	1.0	ND	3.1
Selenium, total	mg/L	0.0020	ND	ND
Silver, total	mg/L	0.0010	ND	ND
Sodium, total	mg/L	1.0	1.5	5.3
Sodium, dissolved	mg/L	1.0	1.4	5.2
Strontium, total	mg/L	0.00020	0.022	0.11
Thallium, total	mg/L	0.00020	ND	ND
Vanadium, total	mg/L	0.0010	ND	ND
Zinc, total	mg/L	0.020	ND	ND
Zinc, dissolved	mg/L	0.020	ND	ND
Nitrogen-Based Analytes				
Ammonia Nitrogen	mg/L	0.050	ND	0.43
Nitrate as N	mg/L	0.050	0.17	4.4
Nitrate + Nitrate as N	mg/L	0.050	0.17	4.4
Nitrite as N	mg/L	0.050	ND	ND
Total Kjeldahl Nitrogen	mg/L	0.20	0.28	2.2

Table 2.3-50— Summary of BBNPP Surface Water Data for 2010-2011

(Page 3 of 4)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Minimum	Maximum
Nitrogen, Total	mg/L	0.25	0.64	5.1
Nitrogen, Organic	mg/L	0.20	ND	2.2
Radionuclides				
Barium-140 (^{140}Ba)	pCi/L	51.5[3]	ND	ND
Cesium-137 (^{137}Cs)	pCi/L	13.3 [3]	ND	ND
Cobalt-58 (^{58}Co)	pCi/L	15.3 [3]	ND	ND
Cobalt-60 (^{60}Co)	pCi/L	17.0[3]	ND	ND
Iodine-131 (^{131}I)	pCi/L	14.7[3]	ND	ND
Iron-59 (^{59}Fe)	pCi/L	33.8[3]	ND	ND
Lanthanum-140 (^{140}La)	pCi/L	24.8[3]	ND	ND
Manganese-54 (^{54}Mn)	pCi/L	15.7[3]	ND	ND
Niobium-95 (^{95}Nb)	pCi/L	14.7[3]	ND	ND
Potassium-40 (^{40}K)	pCi/L	243.3[3]	ND	ND
Tritium (^{3}H)	pCi/L	228.0[3]	ND	ND
Zinc-65 (^{65}Zn)	pCi/L	52.4[3]	ND	ND
Zirconium-95 (^{95}Zr)	pCi/L	29.2[3]	ND	ND
Field Analyses[4]				
Specific Conductance	mS/cm	[5]	0.019	0.31
Dissolved Oxygen	mg/L	[5]	0.48	15.72
pH	SU	[5]	6.23	8.78
Temperature	°C	[5]	0.21	43.54
Turbidity	NTU	[5]	0.0	67.7

Abbreviations:
ND = Not Detected
N/R = Not Run
FC = Fecal Coliforms or Fecal Coliform Colonies
CFU = Colony Forming Units
PCU = Platinum Cobalt Units
T.O.N. = Threshold Odor Number
NTU = Nephelometric Turbidity Unit
SU = Standard Units
Notes:
(1) Parameters to be analyzed in all four rounds of the investigation. Data presented here represent June 2010 to March 2011 sampling events.

Table 2.3-50— Summary of BBNPP Surface Water Data for 2010-2011

(Page 4 of 4)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL)[2]	Minimum	Maximum

(2) Presence of analyte below the analytical Reporting Level (RL) was considered to be "Not Detected." The RL is the lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a reasonable degree of accuracy and precision. The RL is usually greater than the Method Detection Limit (MDL), the minimum concentration that can be measured and reported with 99% confidence that the value is above zero (25 Pa. Code 16.102(a)(3)). The MDL achieved in a given analysis will vary depending on instrument sensitivity and matrix effects.

(3) Value shown for radiological parameters is an average of the Minimum Detectable Concentration (MDC) for every sample, since MDC is sample- and instrument- specific. These values are included here for illustrative purposes.

(4) Only field measurements for the specific sampling sites are considered.

(5) Reporting Level of field analysis parameter is not applicable.

Table 2.3-51— BBNPP Groundwater Quality Data, 2010-2011 Field Measurements

Location[1]	Date	pH	Specific Conductance (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation-Reduction Potential (ORP) (mV)	Salinity (ppt)	TDS (mg/L)
Glacial Outwash Aquifer									
MW410	7/1/2010	6.40	0.181	15.6	0.70	11.50	64.10	0.09	117
Shallow Bedrock Aquifer									
MW401	7/1/2010	7.77	0.288	0.4	0.87	12.46	59.70	0.14	193
MW402	7/1/2010	7.84	0.282	1.0	0.07	12.58	77.10	0.14	184
MW403	7/1/2010	8.87	0.244	2.6	0.13	13.75	38.90	0.12	158
MW404	7/1/2010	6.82	0.121	0.1	2.82	12.20	77.90	0.06	79
MW405	6/30/2010	7.12	0.139	0.0	1.31	11.15	-34.30	0.07	90
	9/15/2010	7.08	0.117	0.0	0.52	11.03	-44.60	0.06	76
	12/15/2010	6.92	0.103	0.0	0.89	10.79	-12.1	0.05	67
	3/22/2011	6.90	0.135	0.0	0.43	11.00	-32.8	0.06	88
MW406	7/1/2010	7.36	0.181	2.9	0.29	12.47	33.30	0.09	120
MW407	6/30/2010	7.27	0.153	0.0	0.03	11.91	63.40	0.07	100
	9/15/2010	7.17	0.121	0.0	0.03	11.91	36.80	0.06	79
	12/15/2010	7.14	0.108	0.0	0.10	11.50	68.20	0.05	70
	3/23/2011	7.22	0.144	0.0	0.00	11.44	-17.3	0.07	93
MW408	7/1/2010	6.99	0.165	0.1	0.10	12.57	68.40	0.08	104
MW409	6/30/2010	7.75	0.232	0.2	0.04	11.80	49.10	0.11	151
	9/16/2010	7.90	0.163	0.0	0.06	11.64	25.90	0.08	105
	12/16/2010	7.75	0.055	0.0	0.00	11.23[2]	20.7	0.02	36
	3/22/2011	7.90	0.188	0.0	0.00	11.50	-43.6	0.09	122

Notes:

(1) Sampling locations are shown on Figure 2.3-31.

(2) First reading observed is reported.

Table 2.3-52— Summary of BBNPP Groundwater Data for 2010-2011

(Page 1 of 3)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL) [2]	Minimum	Maximum
Anions				
Chloride	mg/L	5.0	ND	ND
Fluoride	mg/L	1.0	ND	ND
Sulfate	mg/L	5.0	16	28
Biological Parameters				
Fecal Coliform	FC/100 mL	1	ND	ND
Total Coliform	Coliform/100 mL	1	ND	22
Chlorophyll a	mg/m^3	1	ND	3
Fecal Streptococci	CFU/100 mL	1	8	480
General Water Quality Parameters				
Alkalinity as $CaCO_3$	mg/L	5.0	36	83
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5.0	36	82
BOD (Biological Oxygen Demand)	mg/L	2.0	ND	6.5
$CBOD_5$ (Carbonaceous Biological Oxygen Demand)	mg/L	5.0	ND	ND
Carbonate Alkalinity as $CaCO_3$	mg/L	20	ND	ND
COD (Chemical Oxygen Demand)	mg/L	5.0	ND	30
Color	PCU	3.3	54	110
Hardness, total as $CaCO_3$	mg/L	1.0	ND	ND
Odor	T.O.N.	0.050	ND	ND
HEM (Oil & Grease)	mg/L	0.10	ND	ND
Orthophosphate (as PO_4)	mg/L	1070	15,8000	18,900
Phenolphthalein Alkalinity	mg/L	5.0	ND	ND
Phosphorus, total	mg/L	5.0	93	150
Suspended Solids (TSS)	mg/L	5.0	ND	36
Total Dissolved Solids (TDS)	mg/L	5.0	35	110
Inorganic Chemicals (IOCs)				
Aluminum, total	mg/L	0.010	ND	0.034
Aluminum, dissolved	mg/L	0.0010	ND	ND
Antimony, total	mg/L	0.0010	ND	ND
Arsenic, total	mg/L	0.0020	0.0028	0.021
Barium, total	mg/L	0.00040	ND	ND
Beryllium, total	mg/L	0.00010	ND	ND
Cadmium, total	mg/L	0.50	14	31
Calcium, total	mg/L	0.0020	ND	0.0033
Calcium, dissolved	mg/L	0.0010	ND	ND
Chromium, total	mg/L	0.050	ND	0.096

Table 2.3-52— Summary of BBNPP Groundwater Data for 2010-2011
(Page 2 of 3)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL) [2]	Minimum	Maximum
Copper, total	mg/L	0.00030	ND	ND
Copper, dissolved	mg/L	0.50	3.8	7.2
Iron, total	mg/L	0.0025	0.041	0.19
Iron, dissolved	mg/L	0.00020	ND	ND
Lead, total	mg/L	0.0010	ND	2.8
Magnesium, total	mg/L	0.10	0.32	0.54
Magnesium, dissolved	mg/L	0.0020	ND	ND
Manganese, total	mg/L	0.0010	ND	ND
Manganese, dissolved	mg/L	1.0	4.5	8.1
Mercury, total	mg/L	0.00020	0.094	0.33
Nickel, total	mg/L	0.00020	ND	ND
Potassium, total	mg/L	0.0010	ND	ND
Potassium, dissolved	mg/L	0.020	ND	ND
Selenium, total	mg/L	0.0020	ND	ND
Silver, total	mg/L	0.0010	ND	ND
Sodium, total	mg/L	1.0	1.5	5.3
Sodium, dissolved	mg/L	1.0	1.4	5.2
Strontium, total	mg/L	0.00020	0.022	0.11
Thallium, total	mg/L	0.00020	ND	ND
Vanadium, total	mg/L	0.0010	ND	ND
Zinc, total	mg/L	0.020	ND	ND
Zinc, dissolved	mg/L	0.020	ND	ND
Nitrogen-Based Analytes				
Ammonia Nitrogen	mg/L	0.05	ND	0.69
Nitrate as N	mg/L	0.050	ND	1.6
Nitrate + Nitrate as N	mg/L	0.050	ND	1.6
Nitrite as N	mg/L	0.050	ND	ND
Total Kjeldahl Nitrogen	mg/L	0.20	ND	0.29
Nitrogen, Total	mg/L	0.25	0.64	5.1
Nitrogen, Organic	mg/L	0.20	ND	2.2
Radionuclides				
Barium-140 (^{140}Ba)	pCi/L	47.5[3]	ND	ND
Cesium-137 (^{137}Cs)	pCi/L	16.3[3]	ND	ND
Cobalt-58 (^{58}Co)	pCi/L	14.3[3]	ND	ND
Cobalt-60 (^{60}Co)	pCi/L	12.2[3]	ND	ND
Iodine-131 (^{131}I)	pCi/L	17.8[3]	ND	ND
Iron-59 (^{59}Fe)	pCi/L	23.9[3]	ND	ND
Lanthanum-140 (^{140}La)	pCi/L	15.7[3]	ND	ND
Manganese-54 (^{54}Mn)	pCi/L	13.6[3]	ND	ND
Niobium-95 (^{95}Nb)	pCi/L	14.3[3]	ND	ND
Potassium-40 (^{40}K)	pCi/L	235.0[3]	ND	ND

Table 2.3-52— Summary of BBNPP Groundwater Data for 2010-2011

(Page 3 of 3)

Surface Water Parameters[1]	Units	Analytical Reporting Level (RL) [2]	Minimum	Maximum
Tritium (^{3}H)	pCi/L	231.7[3]	ND	ND
Zinc-65 (^{65}Zn)	pCi/L	38.5[3]	ND	ND
Zirconium-95 (^{95}Zr)	pCi/L	24.3[3]	ND	ND
Field Analyses[4]				
Specific Conductance	mS/cm	[5]	0.055	0.288
Dissolved Oxygen	mg/L	[5]	0.0	2.82
pH	SU	[5]	6.4	8.87
Temperature	°C	[5]	10.79	13.75
Turbidity	NTU	[5]	0.0	15.6

Abbreviations:

ND = Not Detected

N/R = Not Run

FC = Fecal Coliforms or Fecal Coliform Colonies

CFU = Colony Forming Units

PCU = Platinum Cobalt Units

T.O.N. = Threshold Odor Number

NTU = Nephelometric Turbidity Unit

SU = Standard Units

Notes:

(1) Parameters to be analyzed in all four rounds of the investigation. Data presented here represent June 2010 to March 2011 sampling events.

(2) Presence of analyte below the analytical Reporting Level (RL) was considered to be "Not Detected." The RL is the lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a reasonable degree of accuracy and precision. The RL is usually greater than the Method Detection Limit (MDL), the minimum concentration that can be measured and reported with 99% confidence that the value is above zero (25 Pa. Code 16.102(a)(3)). The MDL achieved in a given analysis will vary depending on instrument sensitivity and matrix effects.

(3) Value shown for radiological parameters is an average of the Minimum Detectable Concentration (MDC) for every sample, since MDC is sample- and instrument- specific. These values are included here for illustrative purposes.

(4) Only field measurements for the specific sampling sites are considered.

(5) Reporting Level of field analysis parameter is not applicable.

Figure 2.3-1— Susquehanna River Basin and Sub-basins

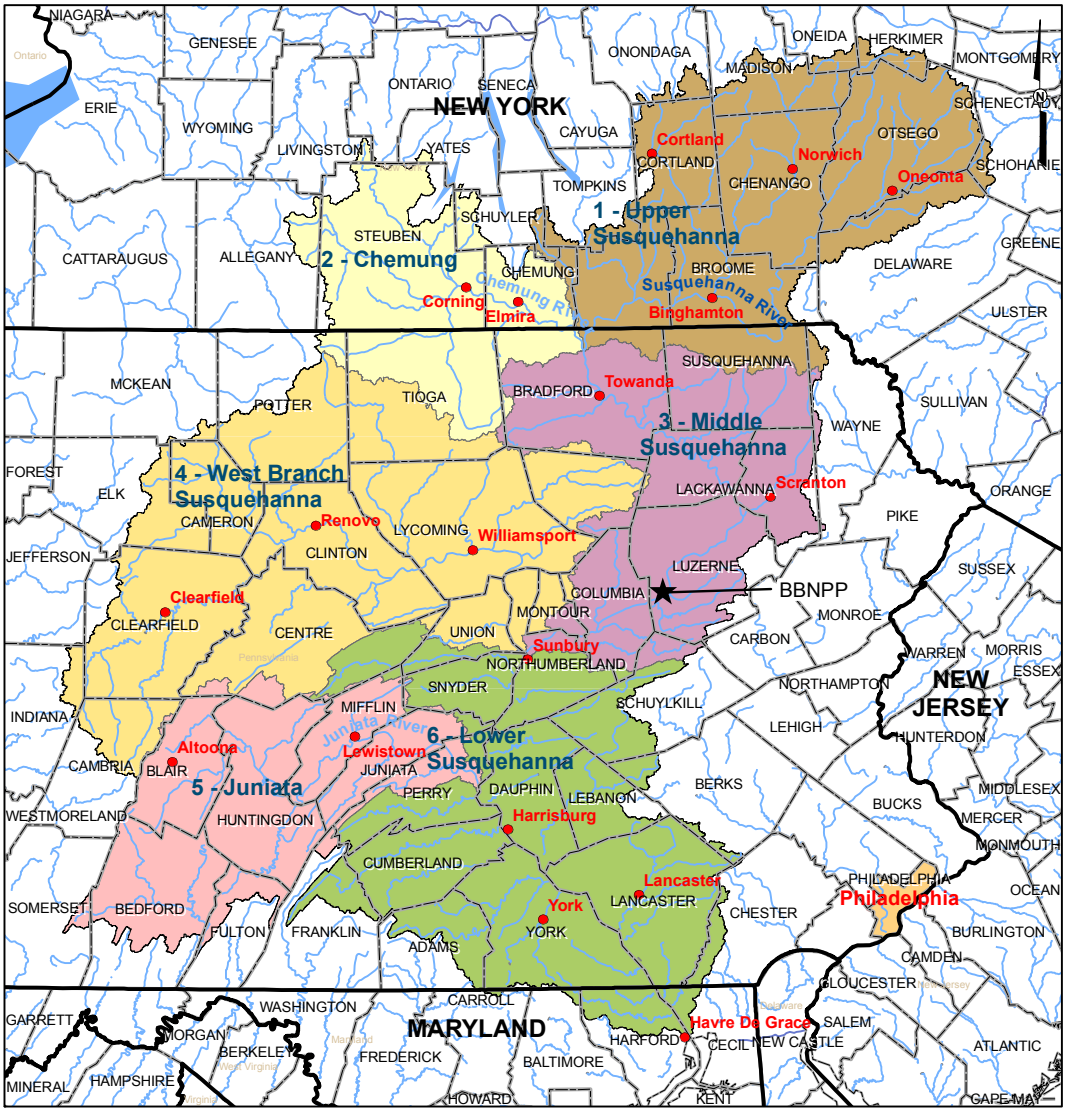
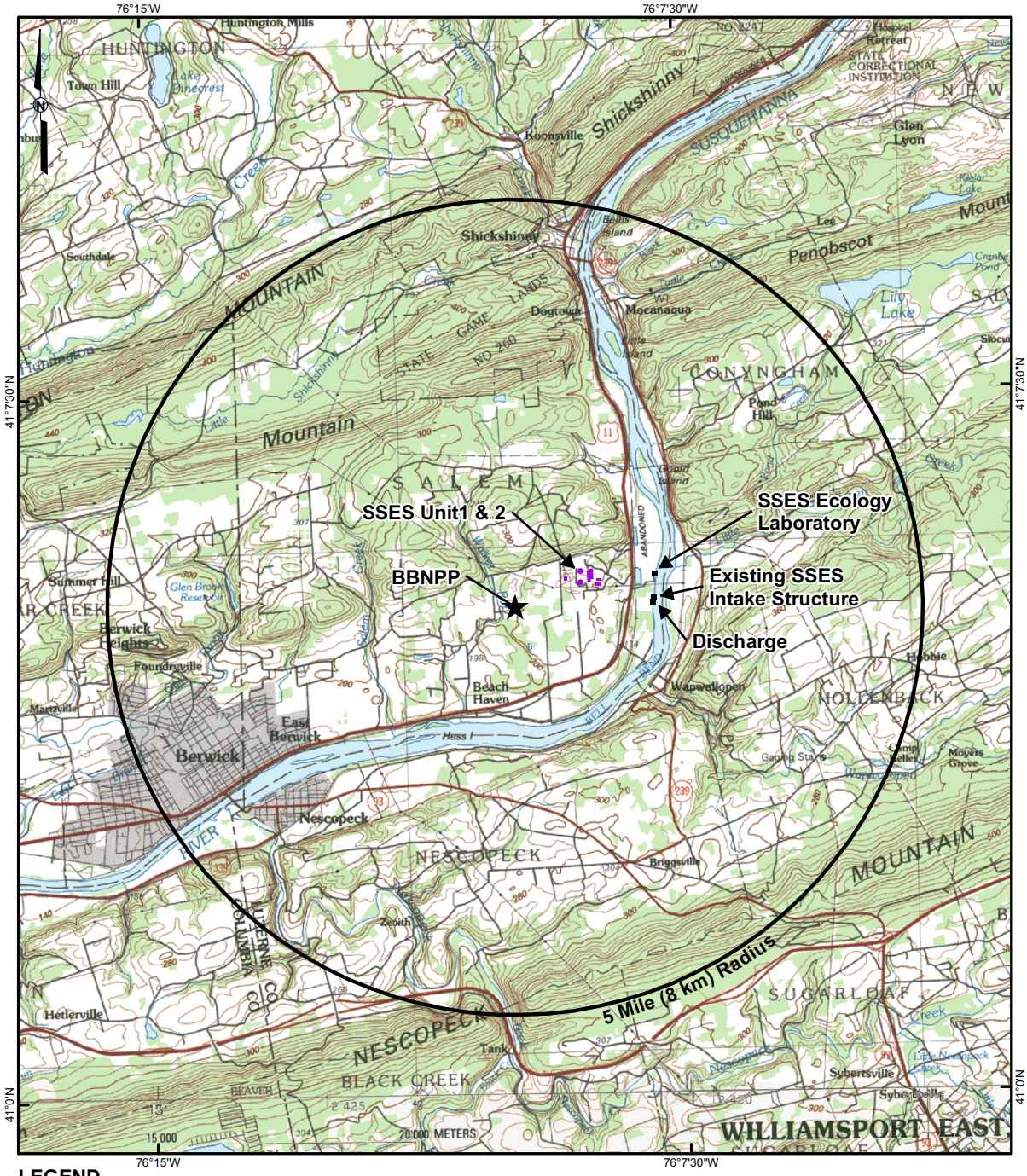


Figure 2.3-2— Site Area Topographic Map 5 Mile (8 km) Radius



REFERENCE:
USGS 1:100K Topographic Maps:
Williamsport East and Sunbury.Maps edited 1984.

Figure 2.3-3— Walker Run Watershed

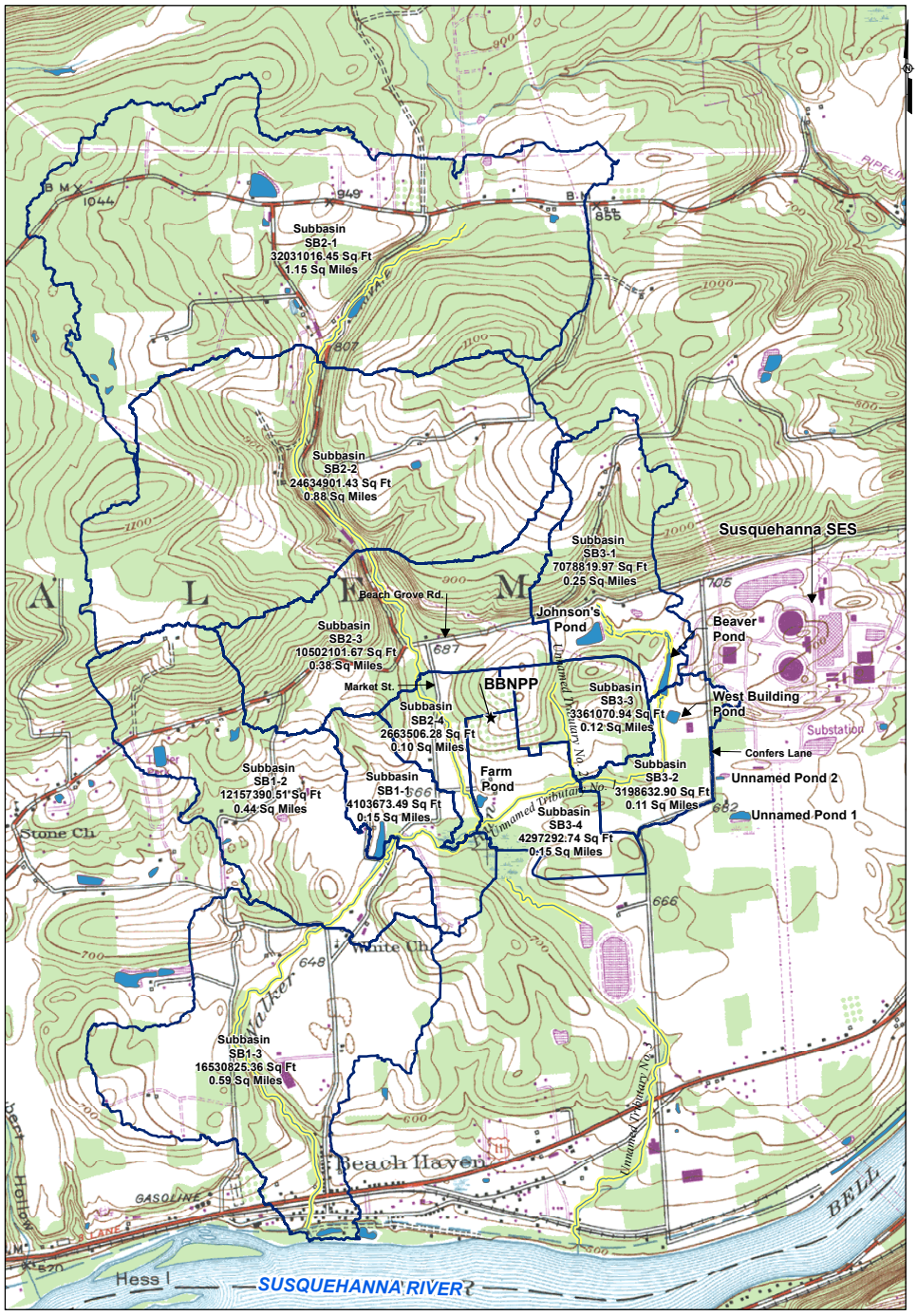
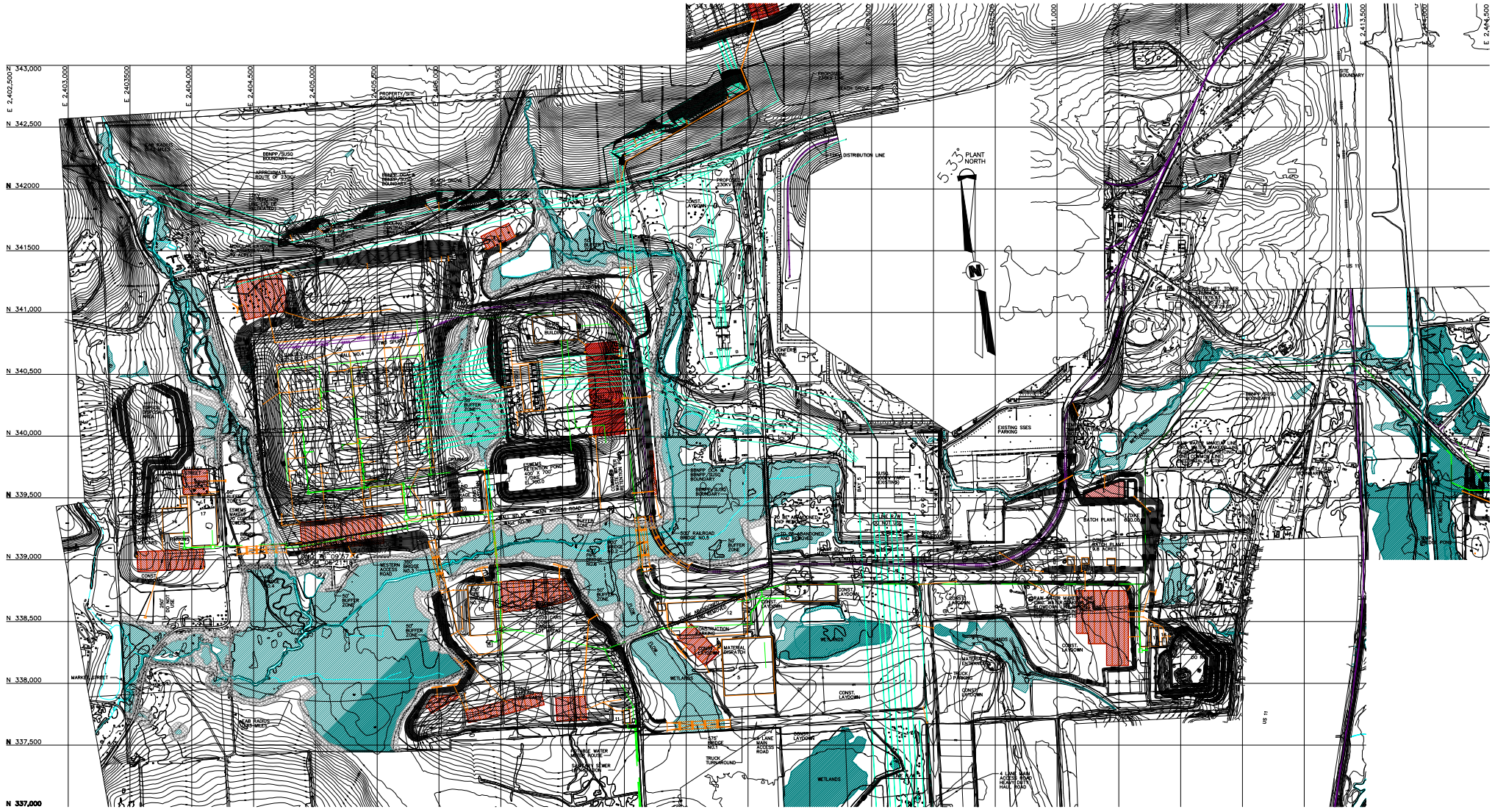


Figure 2.3-4— Site Utilization Layout

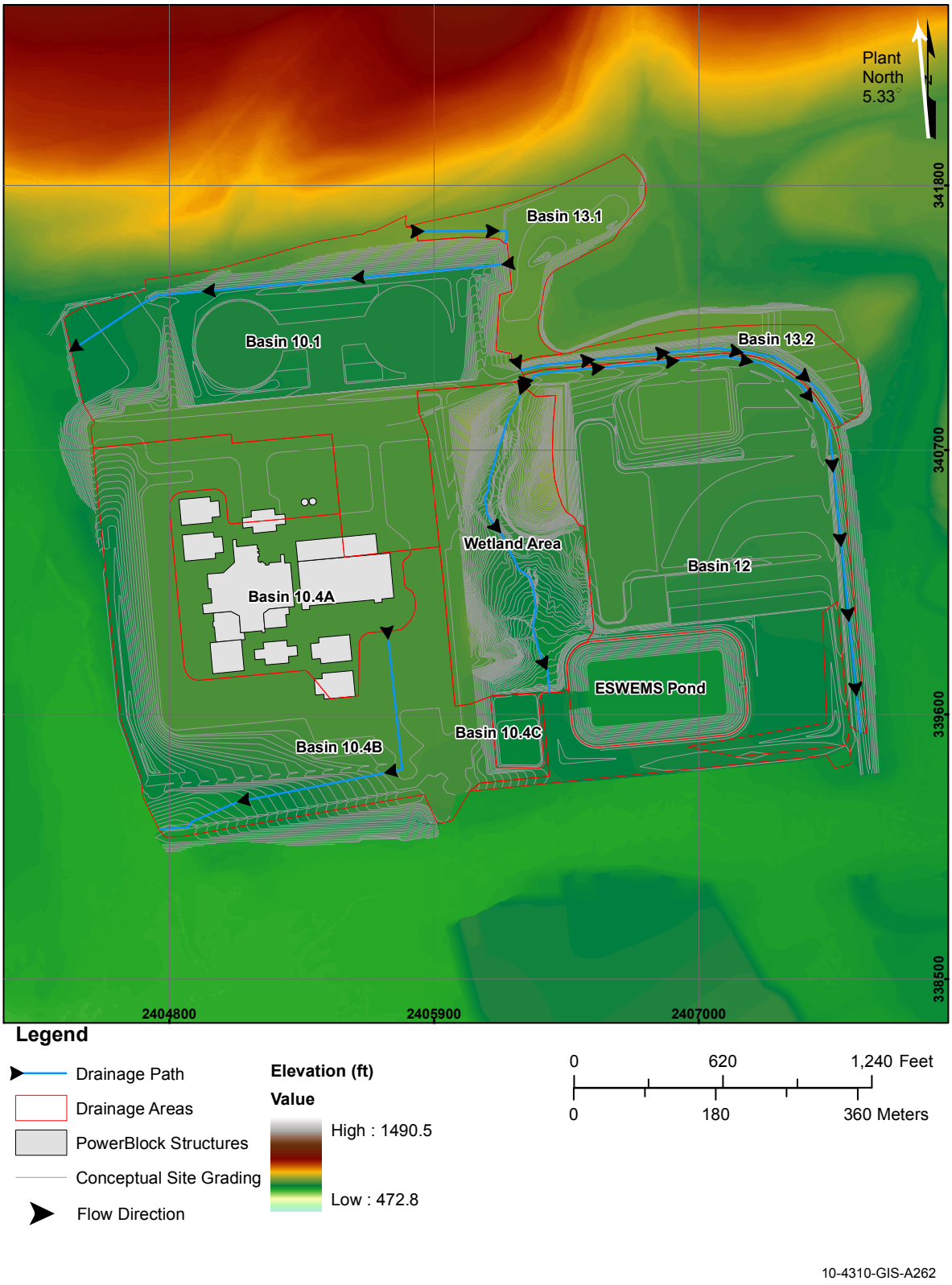


LEGEND

EXISTING CONTOURS	OWNER CONTROLLED AREA	ROAD
FENCE LINE	MANHOLE	RAILROAD TRACK
SLOPE	CONTROL STRUCTURE	ISOLATION ZONE
SITE BOUNDARY	INFILTRATION DITCH	INFILTRATION BED
DRAINAGE DITCH	SWALE / DITCH	BRIDGE
EXISTING ELECT. TOWERS	CULVERT	CHAIN LINK FENCE
ROCK FILTER	EL. ELEVATION	DRAINAGE AREA TO EACH INFILTRATION BED
WETLANDS	INV. INVERT	
50' EXCEPTIONAL VALUE (EV) WETLAND BUFFER	T/R TOP OF ROAD	
WATER BODIES	T/FDN TOP OF FOUNDATION	
TRANSMISSION LINE WITH TRANSMISSION TOWER		

10–4310–CADD–B053

Figure 2.3-5— Site Drainage Flow Pattern



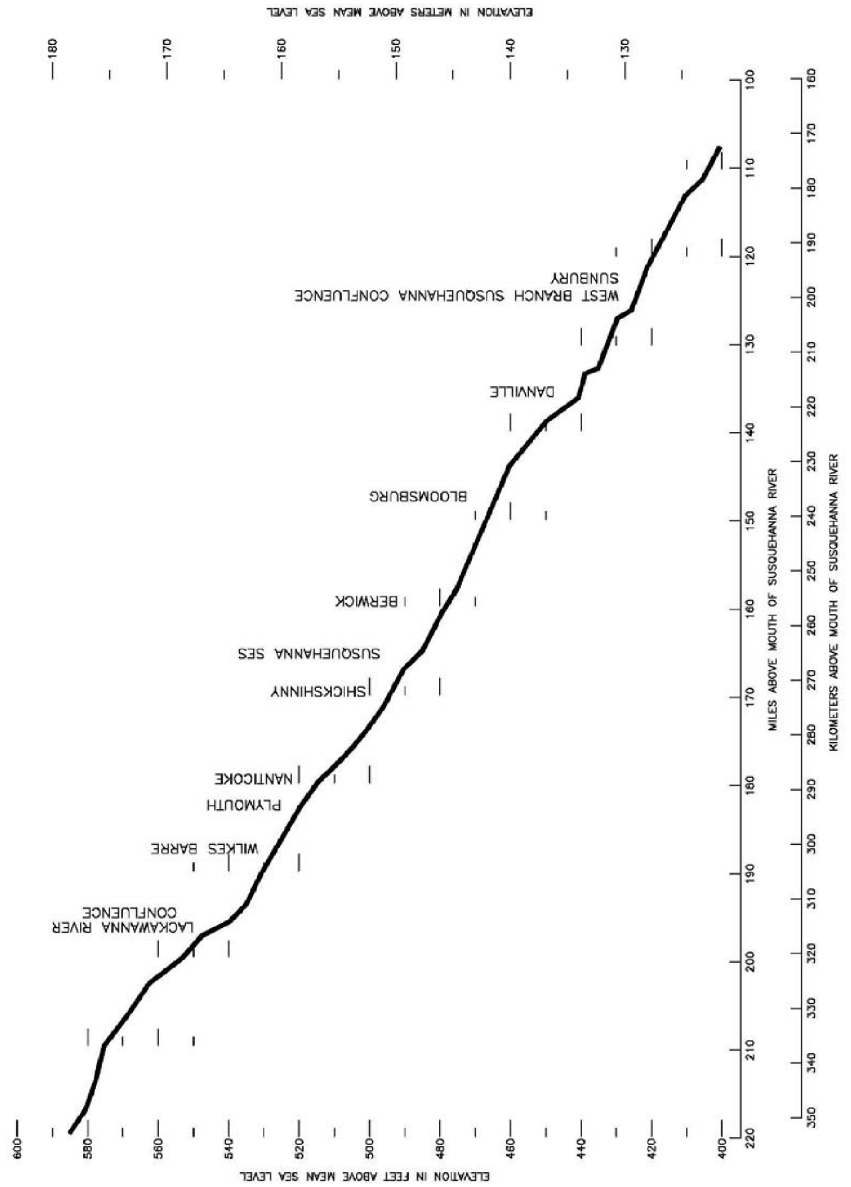
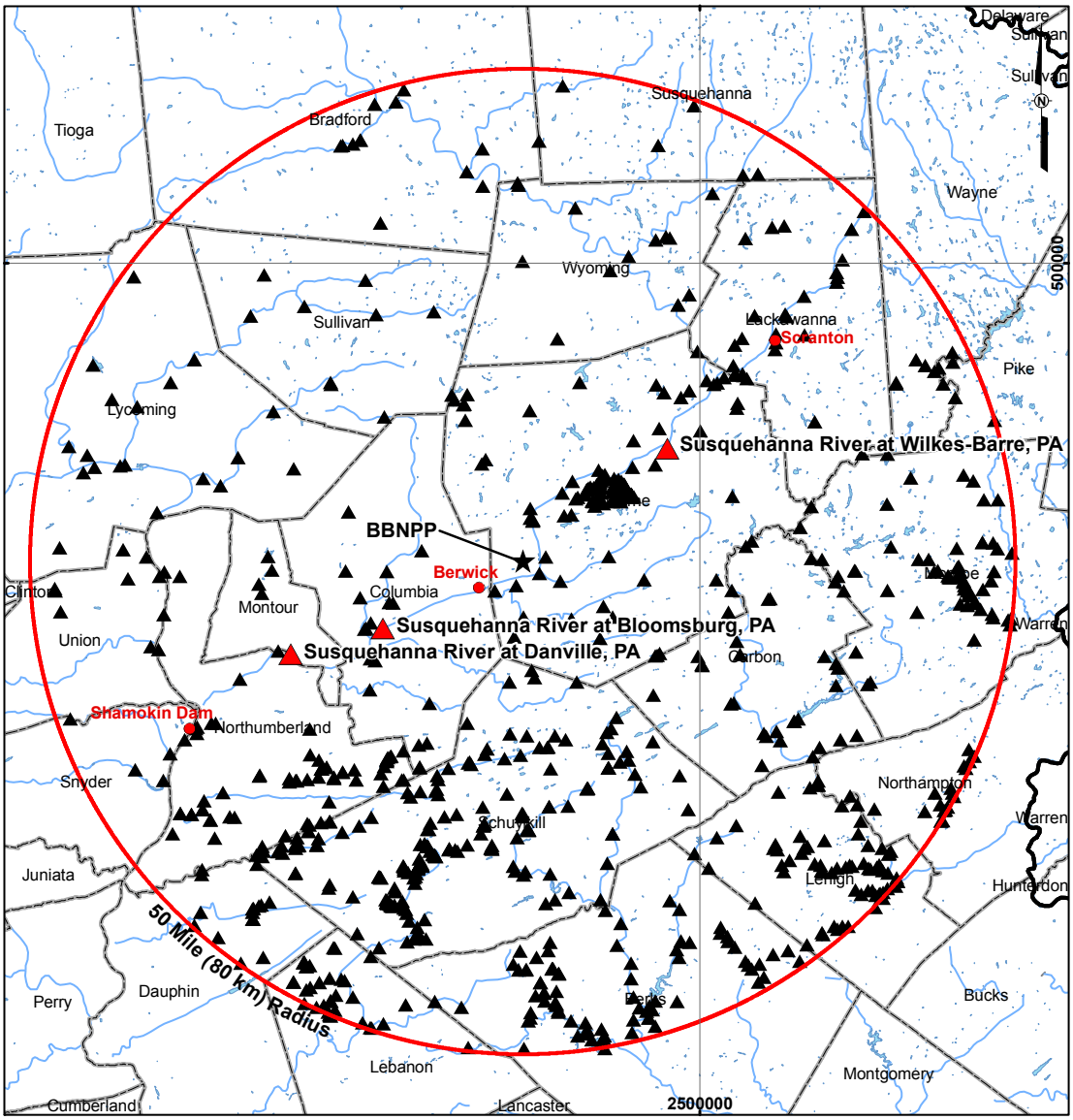


Figure 2.3-6— Elevation Profile of the NBSR in PA

Source: PPL, 1999a

Figure 2.3-7— USGS Stream Gages within a 50-Mile (80-km) Radius



LEGEND

- ★ Center Point of Proposed Bell Bend NPP (BBNPP)
- ▲ USGS Stream Gauges
- ▲ Selected USGS Stream Gauges
- ● City
- Unit 1 Reactor 50 Mile (80 km) Radius
- Waterbody
- County Boundary
- State Boundary

0 5 10 20 Miles

0 5 10 20 Kilometers

REFERENCES

ESRI StreetMap Pro [CD-ROM], 2007, Cities, Rivers, Waterbodies, County Boundaries.
USGS, National Water Information System, 2008, Site Inventory for Pennsylvania.

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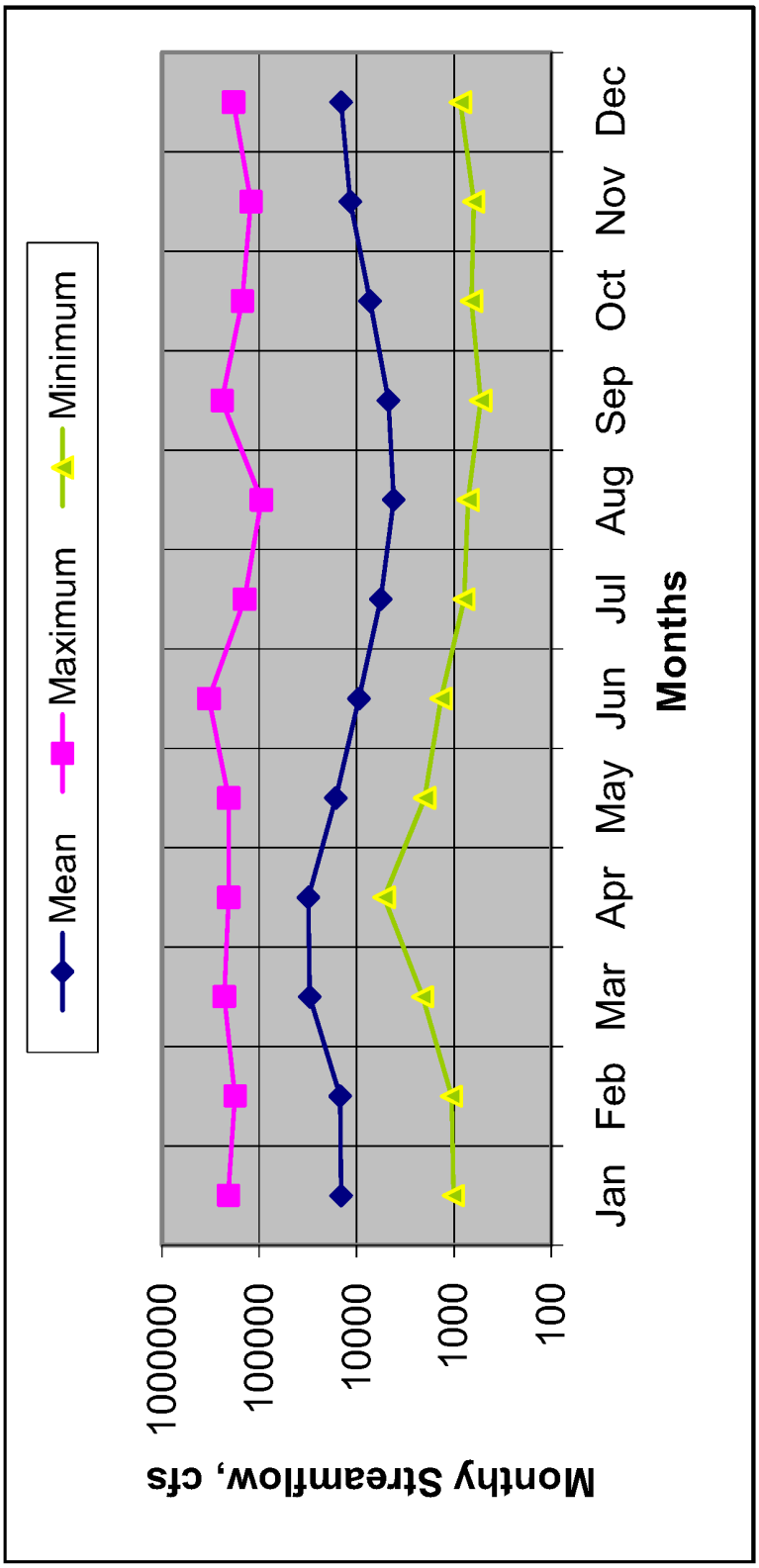
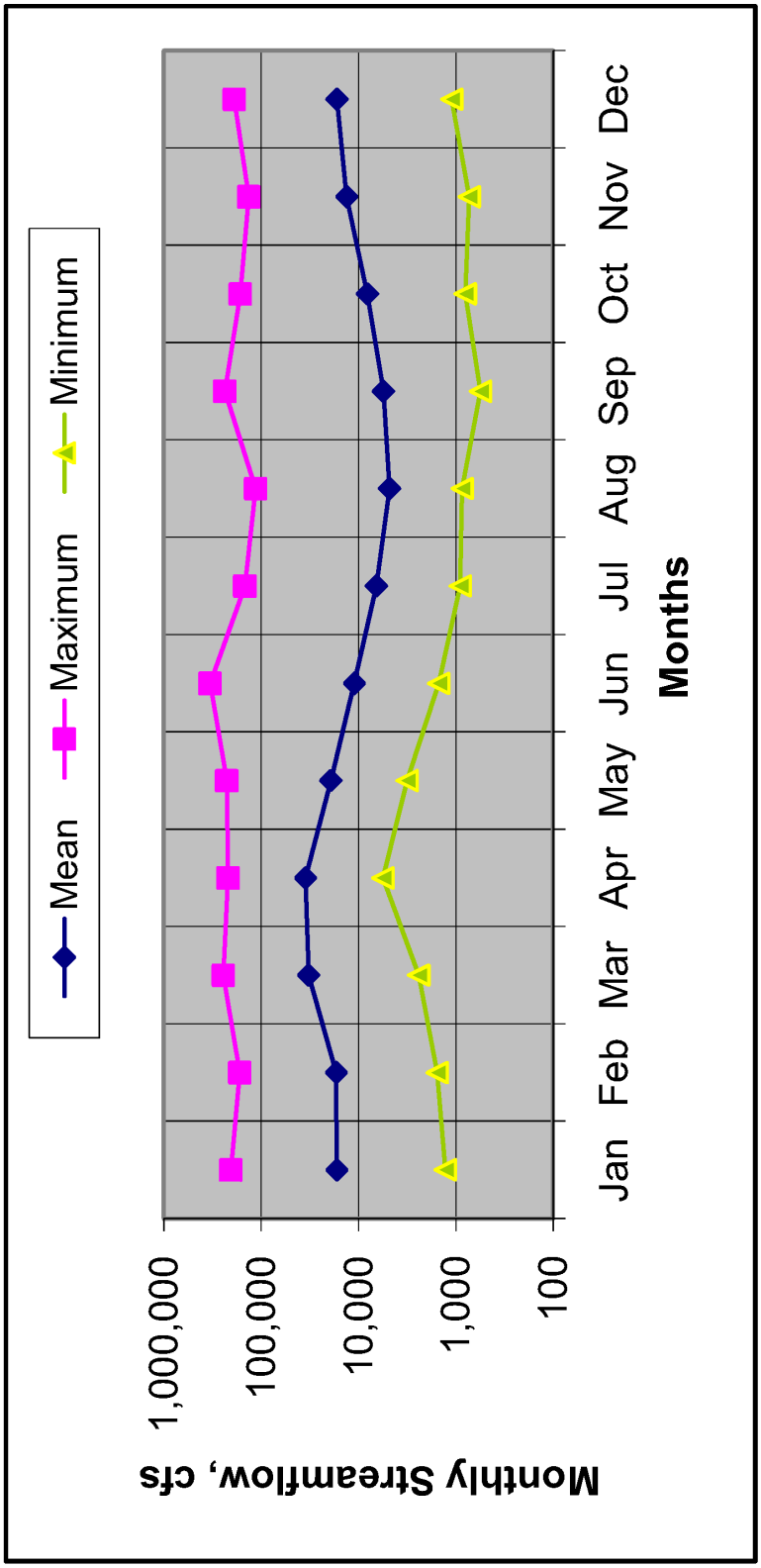


Source: USGS, 2008i

Figure 2.3-8— Mean, Maximum and Minimum Streamflows for the Wilkes-Barre, PA USGS 01536500, 1900 through 2006



Source: USGS, 2008h

Figure 2.3-9— Mean, Maximum and Minimum Streamflows for the Danville, PA USGS 01540500, 1905 through 2006

Figure 2.3-10— Temperature for the Danville USGS 01540500, 1946 through 1976

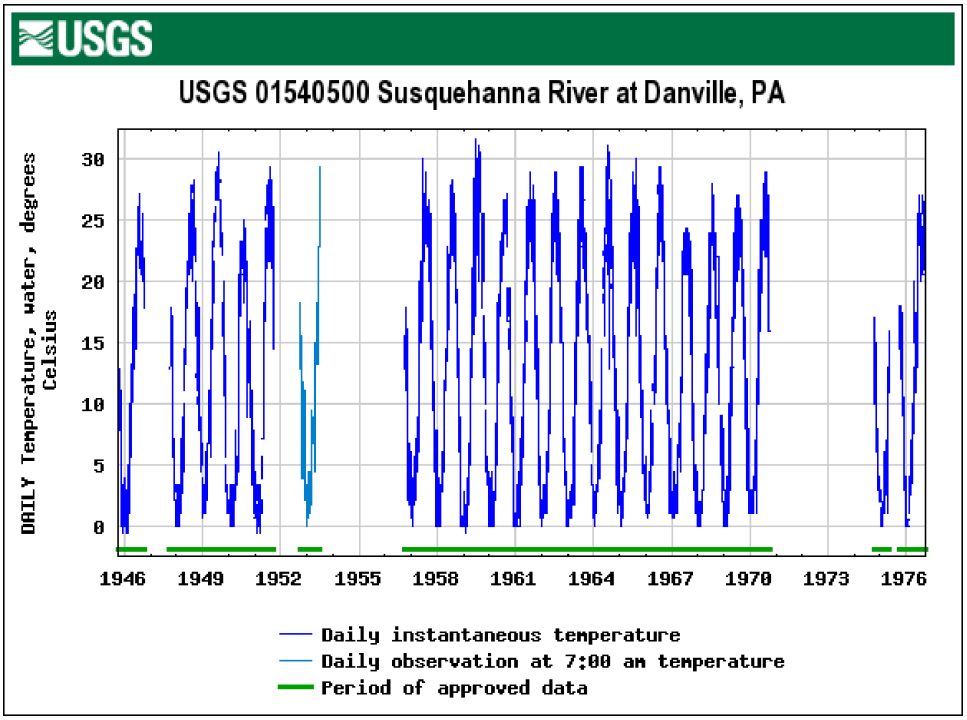
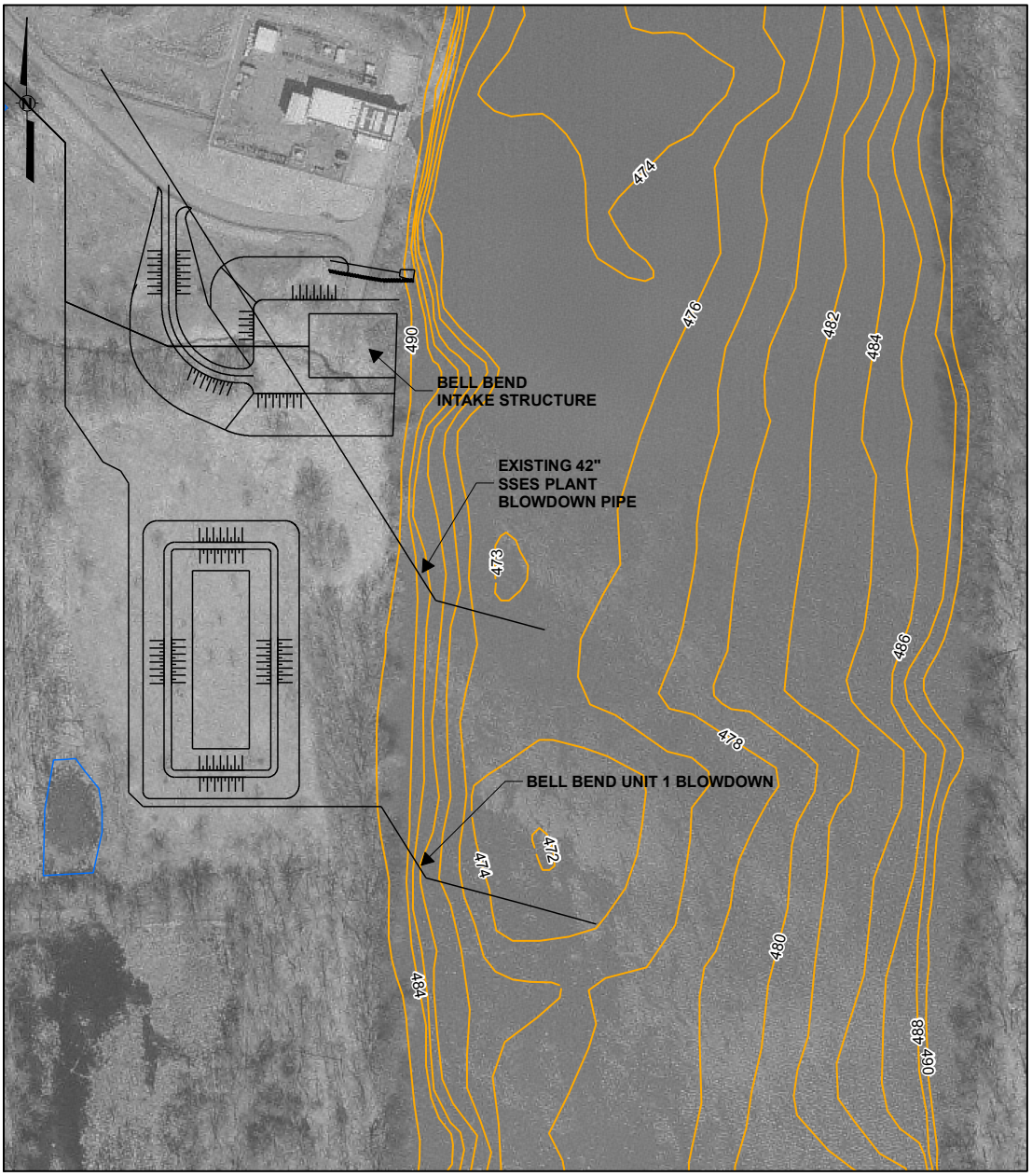


Figure 2.3-11— Susquehanna River Bathymetry Near Intake and Blowdown Structures



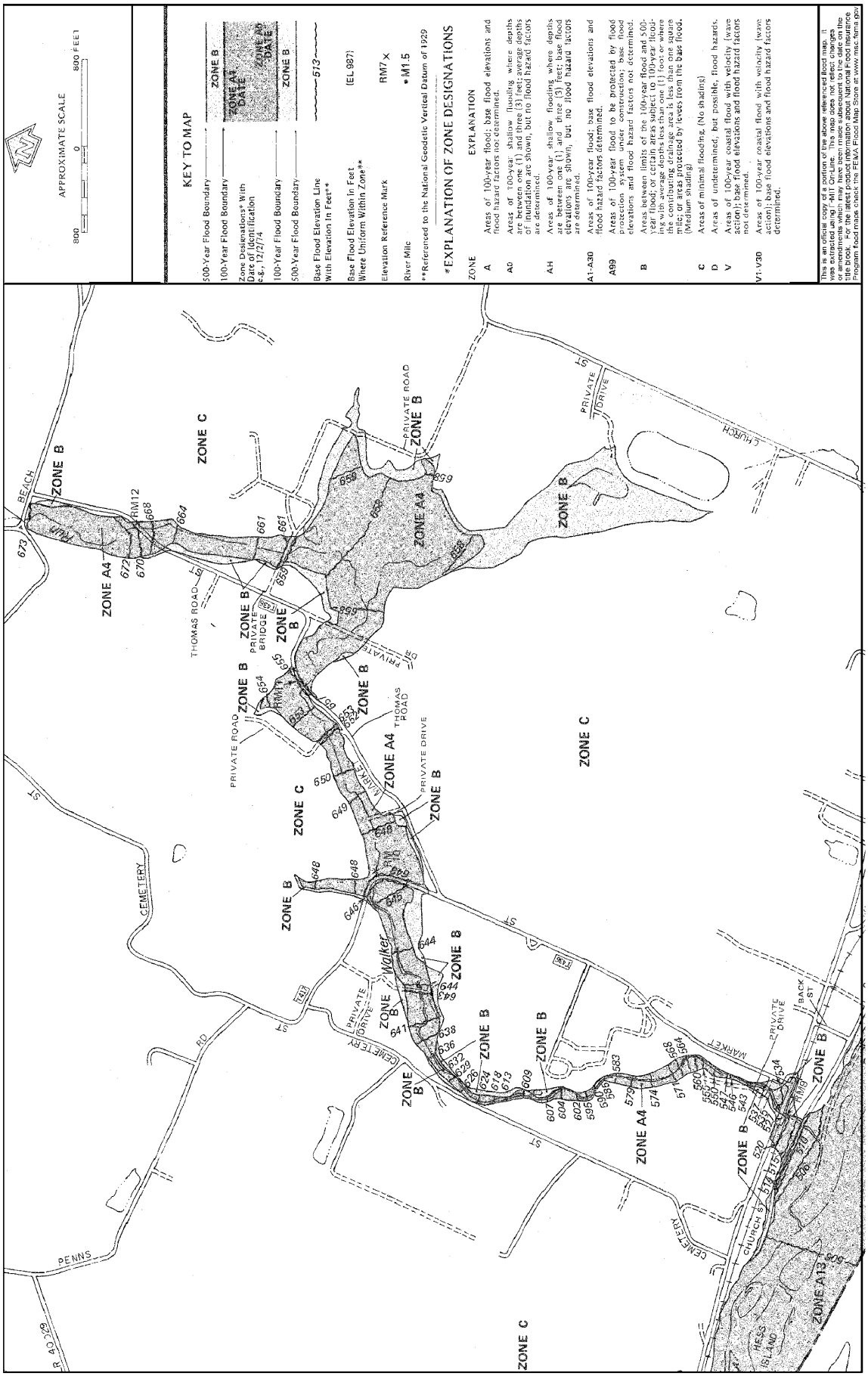


Figure 2.3-12— Flood Insurance Map, Panel 1 of 4

Figure 2.3-13— Flood Insurance Map, Panel 2 of 4